284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2025

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : Q1415

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Portal Partners Tri-Venture

Project Location : Kearny, NJ

Project Number : 9500000878

Laboratory Sample ID(s) : Q1415

Sampling Date(s) : 02/22/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,6010D,7196A,7470A,7471B,8082A,8260-Low,8260D,8270E,NJEPH,SOP**

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	☑ Yes ☐ No
1A	Were the method specified handling, preservation, and holding time requirements met?	☑ Yes ☐ No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	☑ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (4±2° C)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	☐ Yes ☑ No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	☑ Yes ☐ No ☑ Yes ☐ No ☐ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	☑ Yes ☐ No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”

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Cover Page

Order ID : Q1415

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1415-01	B-163-SB01
Q1415-02	B-172-SB01
Q1415-03	B-163-SB02
Q1415-04	B-172-SB02
Q1415-05	FB02222025
Q1415-06	B-173-GW01

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:04 am, Mar 12, 2025

Date: 3/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1415
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 02/24/2025.
2 Water samples were received on 02/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements except for B-163-SB02, B-163-SB02RE, sample was reanalyzed to confirm the failure and reported.
The Retention Times were acceptable for all samples.
The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82N021825W.M) for Styrene this compound is passing on Quadratic Regression.

The Continuous Calibration File ID VN085829.D met the requirements except for 2-Hexanone,4-Methyl-2-Pentanone are failing high but no positive hit in associate sample therefore no corrective action taken and 4-Bromofluorobenzene which is not our target compound, therefore no corrective action taken.

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The Continuous Calibration File ID VN085847.D met the requirements except for 2-Hexanone,4-Methyl-2-Pentanone are failing high but no positive hit in associate sample therefore no corrective action taken and 4-Bromofluorobenzene which is not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.
The soil samples results are based on a dry weight basis.

The Sample # B-163-SB01, B-163-SB02 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 9:05 am, Mar 12, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1415
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 02/24/2025.
2 Water samples were received on 02/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1421-02MS} with File ID: BF141762.D recoveries met the requirements for all compounds except for 3-Nitroaniline[54%], 4-Chloroaniline[35%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The MSD {Q1421-03MSD} with File ID: BF141763.D recoveries met the acceptable requirements except for 3-Nitroaniline[50%], 4-Chloroaniline[39%] and Di-n-octyl phthalate[133%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The RPD met criteria.

The Blank Spike for {PB166853BS} with File ID: BF141777.D met requirements for all samples except for 3,3-Dichlorobenzidine[65%], 3-Nitroaniline[54%] and 4-Chloroaniline[44%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

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The Blank Spike for {PB166875BS} with File ID: BF141781.D met requirements for all samples except for 3,3-Dichlorobenzidine[63%], 3-Nitroaniline[47%] and 4-Chloroaniline[36%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank Spike Duplicate for {PB166875BSD} with File ID: BF141782.D met requirements for all samples except for 3,3-Dichlorobenzidine[66%], 3-Nitroaniline [51%] and 4-Chloroaniline[37%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID BF141755.D met the requirements except for Benzo(g,h,i)perylene,Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF141775.D met the requirements except for Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Sample # FB02222025 was received with limited volume.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:10 am, Mar 12, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1415
Test Name: PCB

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 02/24/2025.
2 Water samples were received on 02/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:
Less volume was taken for sample#FB02222025 at the time of extraction due to Limited volume received.

The soil samples results are based on a dry weight basis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:11 am, Mar 12, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1415
Test Name: EPH

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 02/24/2025.
2 Water samples were received on 02/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.

The MS {Q1421-02} with File ID: FD049142.D recoveries met the requirements for all compounds except for Aromatic C21-C36[151%] Due to matrix interference.

The MSD {Q1421-03} with File ID: FD049143.D recoveries met the acceptable requirements except for Aromatic C21-C36[146%] Due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:11 am, Mar 12, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1415
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 02/24/2025.
2 Water samples were received on 02/24/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample B-172-SB01 was diluted due to high concentrations for Manganese.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (BU-2-022125MS) analysis met criteria for all samples except for Antimony due to matrix interference.
The Matrix Spike (P001-CLAY-CF01-01MS) analysis met criteria for all samples except for Mercury due to matrix interference.
The Matrix Spike (B-173-GW01MS) analysis met criteria for all samples except for Antimony due to matrix interference.
The Matrix Spike Duplicate (BU-2-022125MSD) analysis met criteria for all samples except for Antimony, Manganese due to matrix interference.
The Matrix Spike (B-173-GW01MSD) analysis met criteria for all samples except for Antimony due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met criteria for all samples.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:11 am, Mar 12, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1415
Test Name: Hexavalent Chromium,Trivalent Chromium

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 02/24/2025.
2 Water samples were received on 02/24/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium,Trivalent Chromium.

C. Analytical Techniques:
The analysis of Trivalent Chromium was based on method 6010D and The analysis of Hexavalent Chromium was based on method 7196A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:11 am, Mar 12, 2025

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Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1415

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 03/11/2025

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**B-163-SB01**								
Q1415-01	B-163-SB01	SOIL	Acetone		13.5	J	6.80	27.4	ug/Kg
			Total Voc :		13.5				
Q1415-01	B-163-SB01	SOIL	Ethanol	*	10.9	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Diethyl carbonate	*	450	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Ethyl Acetate	*	1.40	J	1.20	5.50	ug/Kg
			Total Tics :		462				
			Total Concentration:		476				
Client ID:	**B-172-SB01**								
Q1415-02	B-172-SB01	SOIL	Acetone		70.4		5.90	23.7	ug/Kg
Q1415-02	B-172-SB01	SOIL	Methyl Acetate		2.60	J	1.70	4.70	ug/Kg
			Total Voc :		73.0				
Q1415-02	B-172-SB01	SOIL	Butane, 2-methyl-	*	16.4	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Cyclopentane	*	110	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Tert butyl alcohol	*	61.1	J	14.8	23.7	ug/Kg
			Total Tics :		188				
			Total Concentration:		261				
Client ID:	**B-163-SB02**								
Q1415-03	B-163-SB02	SOIL	Acetone		64.7		5.90	23.6	ug/Kg
Q1415-03	B-163-SB02	SOIL	2-Butanone		17.9	J	5.40	23.6	ug/Kg
			Total Voc :		82.6				
Q1415-03	B-163-SB02	SOIL	unknown11.938	*	6.20	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Diethyl carbonate	*	34.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Dodecane	*	17.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Decane	*	21.5	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Tridecane	*	9.90	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Undecane	*	22.2	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Cyclohexane, butyl-	*	6.00	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Naphthalene, decahydro-2-metl	*	5.80	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Undecane, 2,6-dimethyl-	*	6.60	J	0	0	ug/Kg
			Total Tics :		130				
			Total Concentration:		212				
Client ID:	**B-163-SB02RE**								
Q1415-03RE	B-163-SB02RE	SOIL	Acetone		490		10.5	42.1	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	Methylene Chloride		15.6	J	5.70	16.8	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	2-Butanone		130		9.60	42.1	ug/Kg
Q1415-03RE	B-163-SB02RE	SOIL	m/p-Xylenes		2.90	J	2.30	16.8	ug/Kg
			Total Voc :		639				

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Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		639				
Client ID:	**B-172-SB02**								
Q1415-04	B-172-SB02	SOIL	Acetone		72.4		5.70	23.0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Methyl Acetate		2.50	J	1.70	4.60	ug/Kg
			Total Voc :		74.9				
Q1415-04	B-172-SB02	SOIL	Butane, 2-methyl-	*	14.9	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Decane	*	7.30	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Cyclopentane	*	120	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Carbonic acid, nonyl vinyl este	*	5.50	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Tert butyl alcohol	*	91.2	J	14.4	23.0	ug/Kg
			Total Tics :		239				
			Total Concentration:		314				
Client ID:	**FB02222025**								
Q1415-05	FB02222025	Water	Acetone		11.6		1.40	5.00	ug/L
			Total Voc :		11.6				
			Total Concentration:		11.6				
Client ID:	**B-173-GW01**								
Q1415-06	B-173-GW01	Water	Acetone		9.10		1.40	5.00	ug/L
Q1415-06	B-173-GW01	Water	Toluene		2.50		0.18	1.00	ug/L
			Total Voc :		11.6				
			Total Concentration:		11.6				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.80	U	1.80	5.50	ug/Kg
74-87-3	Chloromethane	1.30	U	1.30	5.50	ug/Kg
75-01-4	Vinyl Chloride	0.84	U	0.84	5.50	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.50	ug/Kg
75-00-3	Chloroethane	1.10	U	1.10	5.50	ug/Kg
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.20	U	1.20	5.50	ug/Kg
75-35-4	1,1-Dichloroethene	0.85	U	0.85	5.50	ug/Kg
67-64-1	Acetone	13.5	J	6.80	27.4	ug/Kg
75-15-0	Carbon Disulfide	1.40	U	1.40	5.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.50	ug/Kg
79-20-9	Methyl Acetate	2.00	U	2.00	5.50	ug/Kg
75-09-2	Methylene Chloride	3.70	U	3.70	10.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.92	U	0.92	5.50	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	5.50	ug/Kg
110-82-7	Cyclohexane	0.76	U	0.76	5.50	ug/Kg
78-93-3	2-Butanone	6.20	U	6.20	27.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.95	U	0.95	5.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.67	U	0.67	5.50	ug/Kg
74-97-5	Bromochloromethane	2.60	U	2.60	5.50	ug/Kg
67-66-3	Chloroform	0.73	U	0.73	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.85	U	0.85	5.50	ug/Kg
108-87-2	Methylcyclohexane	0.95	U	0.95	5.50	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.50	ug/Kg
107-06-2	1,2-Dichloroethane	0.67	U	0.67	5.50	ug/Kg
79-01-6	Trichloroethene	0.82	U	0.82	5.50	ug/Kg
78-87-5	1,2-Dichloropropane	0.72	U	0.72	5.50	ug/Kg
75-27-4	Bromodichloromethane	0.61	U	0.61	5.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.80	U	4.80	27.4	ug/Kg
108-88-3	Toluene	0.73	U	0.73	5.50	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	5.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.50	ug/Kg
591-78-6	2-Hexanone	5.20	U	5.20	27.4	ug/Kg
124-48-1	Dibromochloromethane	0.71	U	0.71	5.50	ug/Kg
106-93-4	1,2-Dibromoethane	0.86	U	0.86	5.50	ug/Kg
127-18-4	Tetrachloroethene	0.97	U	0.97	5.50	ug/Kg
108-90-7	Chlorobenzene	0.81	U	0.81	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.68	U	0.68	5.50	ug/Kg
179601-23-1	m/p-Xylenes	1.50	U	1.50	10.9	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	5.50	ug/Kg
100-42-5	Styrene	0.66	U	0.66	5.50	ug/Kg
75-25-2	Bromoform	0.89	U	0.89	5.50	ug/Kg
98-82-8	Isopropylbenzene	0.73	U	0.73	5.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.81	U	0.81	5.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.88	U	0.88	5.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.65	U	0.65	5.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.70	U	1.70	5.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.86	U	0.86	5.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.85	U	0.85	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		70 (50) - 130 (163)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	49.5		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		70 (29) - 130 (146)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	198000	7.707			
540-36-3	1,4-Difluorobenzene	391000	8.616			
3114-55-4	Chlorobenzene-d5	393000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	169000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	5.16 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021336.D	1		02/26/25 17:01	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000064-17-5	Ethanol	10.9	J		3.33	ug/Kg
141-78-6	Ethyl Acetate	1.40	J		6.99	ug/Kg
000105-58-8	Diethyl carbonate	450	J		10.5	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.70	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.70	ug/Kg
75-00-3	Chloroethane	0.96	U	0.96	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.86	U	0.86	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.74	U	0.74	4.70	ug/Kg
67-64-1	Acetone	70.4		5.90	23.7	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.70	ug/Kg
79-20-9	Methyl Acetate	2.60	J	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.60	U	0.60	4.70	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.70	ug/Kg
78-93-3	2-Butanone	5.40	U	5.40	23.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.82	U	0.82	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.58	U	0.58	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.74	U	0.74	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.70	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.58	U	0.58	4.70	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.53	U	0.53	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.7	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.70	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.80	U	0.80	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.7	ug/Kg
124-48-1	Dibromochloromethane	0.62	U	0.62	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.75	U	0.75	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.70	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.59	U	0.59	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.50	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.70	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.70	ug/Kg
75-25-2	Bromoform	0.77	U	0.77	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.70	U	0.70	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.76	U	0.76	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.75	U	0.75	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.7		70 (50) - 130 (163)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (54) - 130 (147)	102%	SPK: 50
2037-26-5	Toluene-d8	46.1		70 (58) - 130 (134)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.4		70 (29) - 130 (146)	71%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	249000	7.707			
540-36-3	1,4-Difluorobenzene	483000	8.616			
3114-55-4	Chlorobenzene-d5	394000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	86.6
Sample Wt/Vol:	6.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021335.D	1		02/26/25 16:37	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000078-78-4	Butane, 2-methyl-	16.4	J		2.84	ug/Kg
000287-92-3	Cyclopentane	110	J		4.70	ug/Kg
75-65-0	Tert butyl alcohol	61.1	J		4.85	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.60	U	1.60	4.70	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.73	U	0.73	4.70	ug/Kg
74-83-9	Bromomethane	0.97	U	0.97	4.70	ug/Kg
75-00-3	Chloroethane	0.95	U	0.95	4.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.86	U	0.86	4.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	1.00	4.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	4.70	ug/Kg
67-64-1	Acetone	64.7		5.90	23.6	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.70	ug/Kg
79-20-9	Methyl Acetate	1.70	U	1.70	4.70	ug/Kg
75-09-2	Methylene Chloride	3.20	U	3.20	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.79	U	0.79	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.59	U	0.59	4.70	ug/Kg
110-82-7	Cyclohexane	0.65	U	0.65	4.70	ug/Kg
78-93-3	2-Butanone	17.9	J	5.40	23.6	ug/Kg
56-23-5	Carbon Tetrachloride	0.82	U	0.82	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.57	U	0.57	4.70	ug/Kg
74-97-5	Bromochloromethane	2.30	U	2.30	4.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.73	U	0.73	4.70	ug/Kg
108-87-2	Methylcyclohexane	0.82	U	0.82	4.70	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	4.70	ug/Kg
79-01-6	Trichloroethene	0.71	U	0.71	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.62	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.53	U	0.53	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.10	U	4.10	23.6	ug/Kg
108-88-3	Toluene	0.63	U	0.63	4.70	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.57	U	0.57	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.54	U	0.54	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.70	ug/Kg
591-78-6	2-Hexanone	4.50	U	4.50	23.6	ug/Kg
124-48-1	Dibromochloromethane	0.61	U	0.61	4.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.74	U	0.74	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.70	ug/Kg
108-90-7	Chlorobenzene	0.70	U	0.70	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	U	1.30	9.40	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	4.70	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.70	ug/Kg
75-25-2	Bromoform	0.76	U	0.76	4.70	ug/Kg
98-82-8	Isopropylbenzene	0.63	U	0.63	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.70	U	0.70	4.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.75	U	0.75	4.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.56	U	0.56	4.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.50	U	1.50	4.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.74	U	0.74	4.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.73	U	0.73	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	50.2		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.3		70 (29) - 130 (146)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	278000	7.707			
540-36-3	1,4-Difluorobenzene	557000	8.616			
3114-55-4	Chlorobenzene-d5	584000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	7.33 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021338.D	1		02/26/25 17:48	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000105-58-8	Diethyl carbonate	34.2	J		10.5	ug/Kg
	unknown11.938	6.20	J		11.9	ug/Kg
000124-18-5	Decane	21.5	J		12.7	ug/Kg
001678-93-9	Cyclohexane, butyl-	6.00	J		13.2	ug/Kg
001120-21-4	Undecane	22.2	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	5.80	J		14.2	ug/Kg
000112-40-3	Dodecane	17.2	J		14.5	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	6.60	J		14.7	ug/Kg
000629-50-5	Tridecane	9.90	J		15.3	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021355.D	1		02/27/25 14:01	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	2.80	U	2.80	8.40	ug/Kg
74-87-3	Chloromethane	2.00	U	2.00	8.40	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.40	ug/Kg
74-83-9	Bromomethane	1.70	U	1.70	8.40	ug/Kg
75-00-3	Chloroethane	1.70	U	1.70	8.40	ug/Kg
75-69-4	Trichlorofluoromethane	1.50	U	1.50	8.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	1.80	8.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.30	U	1.30	8.40	ug/Kg
67-64-1	Acetone	490		10.5	42.1	ug/Kg
75-15-0	Carbon Disulfide	2.20	U	2.20	8.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.10	U	1.10	8.40	ug/Kg
79-20-9	Methyl Acetate	3.00	U	3.00	8.40	ug/Kg
75-09-2	Methylene Chloride	15.6	J	5.70	16.8	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.40	U	1.40	8.40	ug/Kg
75-34-3	1,1-Dichloroethane	1.10	U	1.10	8.40	ug/Kg
110-82-7	Cyclohexane	1.20	U	1.20	8.40	ug/Kg
78-93-3	2-Butanone	130		9.60	42.1	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	1.50	8.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.00	U	1.00	8.40	ug/Kg
74-97-5	Bromochloromethane	4.10	U	4.10	8.40	ug/Kg
67-66-3	Chloroform	1.10	U	1.10	8.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.30	U	1.30	8.40	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.40	ug/Kg
71-43-2	Benzene	1.20	U	1.20	8.40	ug/Kg
107-06-2	1,2-Dichloroethane	1.00	U	1.00	8.40	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	8.40	ug/Kg
78-87-5	1,2-Dichloropropane	1.10	U	1.10	8.40	ug/Kg
75-27-4	Bromodichloromethane	0.94	U	0.94	8.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	7.30	U	7.30	42.1	ug/Kg
108-88-3	Toluene	1.10	U	1.10	8.40	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021355.D	1		02/27/25 14:01	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.00	U	1.00	8.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.96	U	0.96	8.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.40	U	1.40	8.40	ug/Kg
591-78-6	2-Hexanone	8.10	U	8.10	42.1	ug/Kg
124-48-1	Dibromochloromethane	1.10	U	1.10	8.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.30	U	1.30	8.40	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	1.50	8.40	ug/Kg
108-90-7	Chlorobenzene	1.20	U	1.20	8.40	ug/Kg
100-41-4	Ethyl Benzene	1.00	U	1.00	8.40	ug/Kg
179601-23-1	m/p-Xylenes	2.90	J	2.30	16.8	ug/Kg
95-47-6	o-Xylene	1.20	U	1.20	8.40	ug/Kg
100-42-5	Styrene	1.00	U	1.00	8.40	ug/Kg
75-25-2	Bromoform	1.40	U	1.40	8.40	ug/Kg
98-82-8	Isopropylbenzene	1.10	U	1.10	8.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	1.90	8.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.20	U	1.20	8.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.30	U	1.30	8.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.99	U	0.99	8.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.60	U	2.60	8.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	1.30	U	1.30	8.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	1.30	U	1.30	8.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 (54) - 130 (147)	108%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98500	7.707			
540-36-3	1,4-Difluorobenzene	175000	8.61			
3114-55-4	Chlorobenzene-d5	165000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	72900	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02RE	SDG No.:	Q1415
Lab Sample ID:	Q1415-03RE	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	72.4
Sample Wt/Vol:	4.1 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021355.D	1		02/27/25 14:01	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.50	U	1.50	4.60	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	4.60	ug/Kg
75-01-4	Vinyl Chloride	0.71	U	0.71	4.60	ug/Kg
74-83-9	Bromomethane	0.95	U	0.95	4.60	ug/Kg
75-00-3	Chloroethane	0.93	U	0.93	4.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.84	U	0.84	4.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.99	U	0.99	4.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.72	U	0.72	4.60	ug/Kg
67-64-1	Acetone	72.4		5.70	23.0	ug/Kg
75-15-0	Carbon Disulfide	1.20	U	1.20	4.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.62	U	0.62	4.60	ug/Kg
79-20-9	Methyl Acetate	2.50	J	1.70	4.60	ug/Kg
75-09-2	Methylene Chloride	3.10	U	3.10	9.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.77	U	0.77	4.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	4.60	ug/Kg
110-82-7	Cyclohexane	0.64	U	0.64	4.60	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	23.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.80	U	0.80	4.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
74-97-5	Bromochloromethane	2.20	U	2.20	4.60	ug/Kg
67-66-3	Chloroform	0.62	U	0.62	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.72	U	0.72	4.60	ug/Kg
108-87-2	Methylcyclohexane	0.80	U	0.80	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.56	U	0.56	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.61	U	0.61	4.60	ug/Kg
75-27-4	Bromodichloromethane	0.52	U	0.52	4.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.00	U	4.00	23.0	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.60	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.55	U	0.55	4.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.77	U	0.77	4.60	ug/Kg
591-78-6	2-Hexanone	4.40	U	4.40	23.0	ug/Kg
124-48-1	Dibromochloromethane	0.60	U	0.60	4.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.73	U	0.73	4.60	ug/Kg
127-18-4	Tetrachloroethene	0.82	U	0.82	4.60	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.60	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.20	ug/Kg
95-47-6	o-Xylene	0.64	U	0.64	4.60	ug/Kg
100-42-5	Styrene	0.55	U	0.55	4.60	ug/Kg
75-25-2	Bromoform	0.75	U	0.75	4.60	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.62	4.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.68	U	0.68	4.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.74	U	0.74	4.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.54	U	0.54	4.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	4.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.73	U	0.73	4.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.72	U	0.72	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.0		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	45.8		70 (58) - 130 (134)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.2		70 (29) - 130 (146)	70%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	274000	7.707			
540-36-3	1,4-Difluorobenzene	518000	8.615			
3114-55-4	Chlorobenzene-d5	415000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	117000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.7
Sample Wt/Vol:	6.05 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021337.D	1		02/26/25 17:24	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000078-78-4	Butane, 2-methyl-	14.9	J		2.84	ug/Kg
000287-92-3	Cyclopentane	120	J		4.71	ug/Kg
75-65-0	Tert butyl alcohol	91.2	J		4.84	ug/Kg
000124-18-5	Decane	7.30	J		12.7	ug/Kg
1000383-25-6	Carbonic acid, nonyl vinyl ester	5.50	J		13.7	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	11.6		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (74) - 130 (125)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	55.5		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		70 (77) - 130 (121)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	210000	8.224			
540-36-3	1,4-Difluorobenzene	393000	9.1			
3114-55-4	Chlorobenzene-d5	338000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085853.D	1		02/25/25 13:36	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	9.10		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	2.50		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.4		70 (74) - 130 (125)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		70 (75) - 130 (124)	111%	SPK: 50
2037-26-5	Toluene-d8	49.8		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	8.224			
540-36-3	1,4-Difluorobenzene	417000	9.1			
3114-55-4	Chlorobenzene-d5	372000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085844.D	1		02/24/25 18:02	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1415-01	B-163-SB01	1,2-Dichloroethane-d4	50	55.1	110	70 (50)	130 (163)
		Dibromofluoromethane	50	50.3	101	70 (54)	130 (147)
		Toluene-d8	50	49.5	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.2	104	70 (29)	130 (146)
Q1415-02	B-172-SB01	1,2-Dichloroethane-d4	50	53.7	107	70 (50)	130 (163)
		Dibromofluoromethane	50	51.1	102	70 (54)	130 (147)
		Toluene-d8	50	46.1	92	70 (58)	130 (134)
		4-Bromofluorobenzene	50	35.4	71	70 (29)	130 (146)
Q1415-03	B-163-SB02	1,2-Dichloroethane-d4	50	55.4	111	70 (50)	130 (163)
		Dibromofluoromethane	50	50.4	101	70 (54)	130 (147)
		Toluene-d8	50	50.2	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	56.3	113	70 (29)	130 (146)
Q1415-03RE	B-163-SB02RE	1,2-Dichloroethane-d4	50	59.2	118	70 (50)	130 (163)
		Dibromofluoromethane	50	54.0	108	70 (54)	130 (147)
		Toluene-d8	50	48.1	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.7	101	70 (29)	130 (146)
Q1415-04	B-172-SB02	1,2-Dichloroethane-d4	50	51.0	102	70 (50)	130 (163)
		Dibromofluoromethane	50	50.5	101	70 (54)	130 (147)
		Toluene-d8	50	45.8	92	70 (58)	130 (134)
		4-Bromofluorobenzene	50	35.2	70	70 (29)	130 (146)
VY0226SBL01	VY0226SBL01	1,2-Dichloroethane-d4	50	53.1	106	70 (50)	130 (163)
		Dibromofluoromethane	50	49.5	99	70 (54)	130 (147)
		Toluene-d8	50	49.1	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.1	100	70 (29)	130 (146)
VY0226SBS01	VY0226SBS01	1,2-Dichloroethane-d4	50	46.7	93	70 (50)	130 (163)
		Dibromofluoromethane	50	47.4	95	70 (54)	130 (147)
		Toluene-d8	50	47.6	95	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.3	95	70 (29)	130 (146)
VY0226SBSD01	VY0226SBSD01	1,2-Dichloroethane-d4	50	48.5	97	70 (50)	130 (163)
		Dibromofluoromethane	50	49.1	98	70 (54)	130 (147)
		Toluene-d8	50	49.9	100	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.3	101	70 (29)	130 (146)
VY0227SBL01	VY0227SBL01	1,2-Dichloroethane-d4	50	59.2	118	70 (50)	130 (163)
		Dibromofluoromethane	50	52.5	105	70 (54)	130 (147)
		Toluene-d8	50	48.2	96	70 (58)	130 (134)
		4-Bromofluorobenzene	50	49.5	99	70 (29)	130 (146)
VY0227SBS01	VY0227SBS01	1,2-Dichloroethane-d4	50	51.1	102	70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105	70 (54)	130 (147)
		Toluene-d8	50	52.3	105	70 (58)	130 (134)
		4-Bromofluorobenzene	50	52.4	105	70 (29)	130 (146)

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Surrogate Summary

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1415-05	FB02222025	1,2-Dichloroethane-d4	50	59.4	119	70 (74)	130 (125)
		Dibromofluoromethane	50	55.5	111	70 (75)	130 (124)
		Toluene-d8	50	49.1	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	40.5	81	70 (77)	130 (121)
Q1415-06	B-173-GW01	1,2-Dichloroethane-d4	50	60.4	121	70 (74)	130 (125)
		Dibromofluoromethane	50	55.6	111	70 (75)	130 (124)
		Toluene-d8	50	49.8	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.6	93	70 (77)	130 (121)
VN0224WBL01	VN0224WBL01	1,2-Dichloroethane-d4	50	60.2	120	70 (74)	130 (125)
		Dibromofluoromethane	50	54.9	110	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.3	89	70 (77)	130 (121)
VN0224WBS01	VN0224WBS01	1,2-Dichloroethane-d4	50	48.5	97	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	49.4	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.1	102	70 (77)	130 (121)
VN0224WBSD0	VN0224WBSD01	1,2-Dichloroethane-d4	50	49.0	98	70 (74)	130 (125)
		Dibromofluoromethane	50	49.6	99	70 (75)	130 (124)
		Toluene-d8	50	50.1	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.1	104	70 (77)	130 (121)
VN0225WBL01	VN0225WBL01	1,2-Dichloroethane-d4	50	62.2	124	70 (74)	130 (125)
		Dibromofluoromethane	50	55.9	112	70 (75)	130 (124)
		Toluene-d8	50	48.9	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	41.9	84	70 (77)	130 (121)
VN0225WBS01	VN0225WBS01	1,2-Dichloroethane-d4	50	50.1	100	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	52.3	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.6	107	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0224WBS01	Dichlorodifluoromethane	20	19.8	ug/L	99			40 (69)	160 (116)	
	Chloromethane	20	19.6	ug/L	98			40 (65)	160 (116)	
	Vinyl chloride	20	19.6	ug/L	98			70 (65)	130 (117)	
	Bromomethane	20	19.5	ug/L	98			40 (58)	160 (125)	
	Chloroethane	20	19.2	ug/L	96			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.6	ug/L	98			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			70 (80)	130 (112)	
	1,1-Dichloroethene	20	19.3	ug/L	97			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	18.4	ug/L	92			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.7	ug/L	104			70 (78)	130 (114)	
	Methyl Acetate	20	22.4	ug/L	112			70 (67)	130 (125)	
	Methylene Chloride	20	20.4	ug/L	102			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.3	ug/L	97			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.6	ug/L	103			70 (78)	130 (112)	
	Cyclohexane	20	18.5	ug/L	93			70 (75)	130 (110)	
	2-Butanone	100	120	ug/L	120			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.6	ug/L	98			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			70 (77)	130 (110)	
	Bromochloromethane	20	24.9	ug/L	125			70 (70)	130 (124)	
	Chloroform	20	20.8	ug/L	104			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.7	ug/L	99			70 (80)	130 (108)	
	Methylcyclohexane	20	17.8	ug/L	89			70 (72)	130 (115)	
	Benzene	20	20.3	ug/L	102			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.9	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	18.7	ug/L	94			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.8	ug/L	104			70 (83)	130 (111)	
	Bromodichloromethane	20	20.6	ug/L	103			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	120	ug/L	120			40 (74)	160 (118)	
	Toluene	20	21.1	ug/L	106			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.3	ug/L	102			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.9	ug/L	104			70 (83)	130 (112)	
	2-Hexanone	100	120	ug/L	120			40 (73)	160 (117)	
	Dibromochloromethane	20	21.3	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.3	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	19.4	ug/L	97			70 (67)	130 (123)	
	Chlorobenzene	20	20.1	ug/L	101			70 (82)	130 (109)	
	Ethyl Benzene	20	20.1	ug/L	101			70 (83)	130 (109)	
	m/p-Xylenes	40	43.0	ug/L	108			70 (82)	130 (110)	
	o-Xylene	20	20.6	ug/L	103			70 (83)	130 (109)	
	Styrene	20	20.5	ug/L	103			70 (80)	130 (111)	
	Bromoform	20	22.1	ug/L	111			70 (79)	130 (109)	
	Isopropylbenzene	20	19.2	ug/L	96			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.5	ug/L	98			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0224WBS01	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	17.0	ug/L	85			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	17.5	ug/L	88			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0224WBSD01	Dichlorodifluoromethane	20	19.5	ug/L	98	1		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.9	ug/L	100	2		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	19.1	ug/L	96	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	19.0	ug/L	95	3		40 (58)	160 (125)	20 (20)
	Chloroethane	20	18.9	ug/L	95	1		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.3	ug/L	97	1		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101	3		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.8	ug/L	99	2		70 (74)	130 (110)	20 (20)
	Acetone	100	120	ug/L	120	9		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.8	ug/L	89	3		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	20.9	ug/L	104	0		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	23.5	ug/L	117	4		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.1	ug/L	101	1		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.3	ug/L	97	0		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.3	ug/L	102	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.1	ug/L	91	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	120	ug/L	120	0		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.8	ug/L	99	1		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	0		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	25.0	ug/L	125	0		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.2	ug/L	101	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.4	ug/L	97	2		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	18.1	ug/L	91	2		70 (72)	130 (115)	20 (20)
	Benzene	20	20.5	ug/L	103	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.4	ug/L	102	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.1	ug/L	96	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.8	ug/L	104	0		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.9	ug/L	104	1		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	120	ug/L	120	0		40 (74)	160 (118)	20 (20)
	Toluene	20	21.1	ug/L	106	0		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	21.8	ug/L	109	7		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.8	ug/L	104	0		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.2	ug/L	111	7		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	130	ug/L	130	8		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.9	ug/L	110	4		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	22.0	ug/L	110	4		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.3	ug/L	97	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.9	ug/L	100	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	19.8	ug/L	99	2		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	42.5	ug/L	106	2		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.3	ug/L	102	1		70 (83)	130 (109)	20 (20)
	Styrene	20	20.5	ug/L	103	0		70 (80)	130 (111)	20 (20)
	Bromoform	20	22.1	ug/L	111	0		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	19.5	ug/L	98	2		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.2	ug/L	106	3		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.0	ug/L	100	4		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	19.4	ug/L	97	3		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	20.1	ug/L	101	3		70 (82)	130 (109)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085833.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0224WBSD01	1,2-Dibromo-3-Chloropropane	20	21.4	ug/L	107	8		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93	9		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	19.1	ug/L	96	9		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085850.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0225WBS01	Dichlorodifluoromethane	20	19.0	ug/L	95			40 (69)	160 (116)	
	Chloromethane	20	19.0	ug/L	95			40 (65)	160 (116)	
	Vinyl chloride	20	18.6	ug/L	93			70 (65)	130 (117)	
	Bromomethane	20	18.1	ug/L	91			40 (58)	160 (125)	
	Chloroethane	20	18.1	ug/L	91			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.8	ug/L	94			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	Acetone	100	110	ug/L	110			40 (60)	160 (125)	
	Carbon disulfide	20	17.1	ug/L	86			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	19.4	ug/L	97			70 (78)	130 (114)	
	Methyl Acetate	20	22.8	ug/L	114			70 (67)	130 (125)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	18.8	ug/L	94			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.9	ug/L	100			70 (78)	130 (112)	
	Cyclohexane	20	17.2	ug/L	86			70 (75)	130 (110)	
	2-Butanone	100	110	ug/L	110			40 (65)	160 (122)	
	Carbon Tetrachloride	20	19.5	ug/L	98			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.3	ug/L	92			70 (77)	130 (110)	
	Bromochloromethane	20	22.5	ug/L	113			70 (70)	130 (124)	
	Chloroform	20	19.9	ug/L	100			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			70 (80)	130 (108)	
	Methylcyclohexane	20	16.9	ug/L	85			70 (72)	130 (115)	
	Benzene	20	19.8	ug/L	99			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.9	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	18.4	ug/L	92			70 (77)	130 (113)	
	1,2-Dichloropropane	20	20.2	ug/L	101			70 (83)	130 (111)	
	Bromodichloromethane	20	20.4	ug/L	102			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	120	ug/L	120			40 (74)	160 (118)	
	Toluene	20	20.9	ug/L	104			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	19.8	ug/L	99			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			70 (83)	130 (112)	
	2-Hexanone	100	130	ug/L	130			40 (73)	160 (117)	
	Dibromochloromethane	20	21.2	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.2	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	18.4	ug/L	92			70 (67)	130 (123)	
	Chlorobenzene	20	19.1	ug/L	96			70 (82)	130 (109)	
	Ethyl Benzene	20	19.1	ug/L	96			70 (83)	130 (109)	
	m/p-Xylenes	40	40.9	ug/L	102			70 (82)	130 (110)	
	o-Xylene	20	19.4	ug/L	97			70 (83)	130 (109)	
	Styrene	20	19.6	ug/L	98			70 (80)	130 (111)	
	Bromoform	20	21.8	ug/L	109			70 (79)	130 (109)	
	Isopropylbenzene	20	18.2	ug/L	91			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.3	ug/L	92			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			70 (82)	130 (109)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN085850.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0225WBS01	1,2-Dibromo-3-Chloropropane	20	19.9	ug/L	100			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	16.7	ug/L	84			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	16.5	ug/L	83			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021322.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0226SBS01	Dichlorodifluoromethane	20	19.5	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.9	ug/Kg	95			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.2	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.0	ug/Kg	95			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.0	ug/Kg	95			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.0	ug/Kg	95			70 (79)	130 (121)	
	Acetone	100	94.9	ug/Kg	95			40 (60)	160 (131)	
	Carbon disulfide	20	18.6	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.5	ug/Kg	93			70 (69)	130 (149)	
	Methylene Chloride	20	18.5	ug/Kg	93			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.0	ug/Kg	95			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.1	ug/Kg	96			70 (82)	130 (123)	
	Cyclohexane	20	18.9	ug/Kg	95			70 (76)	130 (122)	
	2-Butanone	100	92.9	ug/Kg	93			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.0	ug/Kg	95			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			70 (82)	130 (123)	
	Bromochloromethane	20	17.9	ug/Kg	90			70 (80)	130 (127)	
	Chloroform	20	19.3	ug/Kg	97			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96			70 (80)	130 (126)	
	Methylcyclohexane	20	18.9	ug/Kg	95			70 (77)	130 (123)	
	Benzene	20	19.3	ug/Kg	97			70 (84)	130 (121)	
	1,2-Dichloroethane	20	19.2	ug/Kg	96			70 (81)	130 (126)	
	Trichloroethene	20	19.2	ug/Kg	96			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	Bromodichloromethane	20	19.1	ug/Kg	96			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	93.3	ug/Kg	93			40 (70)	160 (135)	
	Toluene	20	19.3	ug/Kg	97			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.0	ug/Kg	95			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	19.1	ug/Kg	96			70 (82)	130 (125)	
	2-Hexanone	100	93.8	ug/Kg	94			40 (66)	160 (138)	
	Dibromochloromethane	20	19.3	ug/Kg	97			70 (79)	130 (125)	
	1,2-Dibromoethane	20	18.8	ug/Kg	94			70 (80)	130 (125)	
	Tetrachloroethene	20	19.2	ug/Kg	96			70 (83)	130 (125)	
	Chlorobenzene	20	19.0	ug/Kg	95			70 (84)	130 (122)	
	Ethyl Benzene	20	19.0	ug/Kg	95			70 (82)	130 (124)	
	m/p-Xylenes	40	38.8	ug/Kg	97			70 (83)	130 (124)	
	o-Xylene	20	19.3	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	19.3	ug/Kg	97			70 (82)	130 (124)	
	Bromoform	20	19.1	ug/Kg	96			70 (75)	130 (127)	
	Isopropylbenzene	20	19.1	ug/Kg	96			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/Kg	94			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	18.8	ug/Kg	94			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021322.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0226SBS01	1,2-Dibromo-3-Chloropropane	20	18.6	ug/Kg	93			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	17.7	ug/Kg	89			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	17.9	ug/Kg	90			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021323.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0226SBSD01	Dichlorodifluoromethane	20	19.2	ug/Kg	96	2		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.6	ug/Kg	98	3		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	19.4	ug/Kg	97	0		70 (72)	130 (129)	30 (20)
	Bromomethane	20	19.4	ug/Kg	97	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.6	ug/Kg	98	3		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.2	ug/Kg	96	1		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	19.2	ug/Kg	96	1		70 (79)	130 (121)	30 (20)
	Acetone	100	91.3	ug/Kg	91	4		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	19.2	ug/Kg	96	3		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	19.5	ug/Kg	98	2		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	19.2	ug/Kg	96	3		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	18.9	ug/Kg	95	2		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.4	ug/Kg	97	2		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.5	ug/Kg	98	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.1	ug/Kg	96	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	94.4	ug/Kg	94	1		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	19.6	ug/Kg	98	3		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.9	ug/Kg	100	4		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	19.9	ug/Kg	100	11		70 (80)	130 (127)	30 (20)
	Chloroform	20	19.5	ug/Kg	98	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.5	ug/Kg	98	3		70 (77)	130 (123)	30 (20)
	Benzene	20	19.9	ug/Kg	100	3		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	19.7	ug/Kg	99	3		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	19.6	ug/Kg	98	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	19.5	ug/Kg	98	2		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	97.8	ug/Kg	98	5		40 (70)	160 (135)	30 (20)
	Toluene	20	19.7	ug/Kg	99	2		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.8	ug/Kg	99	4		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97	0		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	19.4	ug/Kg	97	1		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	96.5	ug/Kg	97	3		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	19.8	ug/Kg	99	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	19.4	ug/Kg	97	3		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	19.7	ug/Kg	99	3		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	19.6	ug/Kg	98	3		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.2	ug/Kg	96	1		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	38.6	ug/Kg	97	0		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.4	ug/Kg	97	0		70 (83)	130 (123)	30 (20)
	Styrene	20	19.8	ug/Kg	99	2		70 (82)	130 (124)	30 (20)
	Bromoform	20	19.1	ug/Kg	96	0		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.7	ug/Kg	99	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	19.4	ug/Kg	97	3		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99	3		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99	3		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	19.5	ug/Kg	98	4		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021323.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0226SBSD01	1,2-Dibromo-3-Chloropropane	20	18.0	ug/Kg	90	3		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.0	ug/Kg	95	7		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95	5		70 (70)	130 (137)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	Dichlorodifluoromethane	20	19.6	ug/Kg	98			40 (64)	160 (136)	
	Chloromethane	20	18.5	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	19.1	ug/Kg	96			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	20.2	ug/Kg	101			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.9	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	18.5	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			70 (77)	130 (129)	
	Methyl Acetate	20	18.3	ug/Kg	92			70 (69)	130 (149)	
	Methylene Chloride	20	19.9	ug/Kg	100			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Cyclohexane	20	18.7	ug/Kg	94			70 (76)	130 (122)	
	2-Butanone	100	97.4	ug/Kg	97			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.9	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.5	ug/Kg	98			70 (82)	130 (123)	
	Bromochloromethane	20	19.0	ug/Kg	95			70 (80)	130 (127)	
	Chloroform	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.0	ug/Kg	100			70 (80)	130 (126)	
	Methylcyclohexane	20	19.3	ug/Kg	97			70 (77)	130 (123)	
	Benzene	20	19.9	ug/Kg	100			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			70 (83)	130 (122)	
	Bromodichloromethane	20	20.2	ug/Kg	101			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	92.0	ug/Kg	92			40 (70)	160 (135)	
	Toluene	20	20.2	ug/Kg	101			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.4	ug/Kg	97			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.1	ug/Kg	101			70 (82)	130 (125)	
	2-Hexanone	100	95.9	ug/Kg	96			40 (66)	160 (138)	
	Dibromochloromethane	20	19.8	ug/Kg	99			70 (79)	130 (125)	
	1,2-Dibromoethane	20	19.5	ug/Kg	98			70 (80)	130 (125)	
	Tetrachloroethene	20	19.9	ug/Kg	100			70 (83)	130 (125)	
	Chlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (122)	
	Ethyl Benzene	20	20.1	ug/Kg	101			70 (82)	130 (124)	
	m/p-Xylenes	40	40.4	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	19.8	ug/Kg	99			70 (83)	130 (123)	
	Styrene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	Bromoform	20	19.9	ug/Kg	100			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.0	ug/Kg	100			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	19.6	ug/Kg	98			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021348.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0227SBS01	1,2-Dibromo-3-Chloropropane	20	18.7	ug/Kg	94			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.9	ug/Kg	95			70 (70)	130 (137)	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0224WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085831.D Lab Sample ID: VN0224WBL01

Date Analyzed: 02/24/2025 Time Analyzed: 12:39

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025
VN0224WBSD01	VN0224WBSD01	VN085833.D	02/24/2025
B-173-GW01	Q1415-06	VN085844.D	02/24/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0225WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085849.D Lab Sample ID: VN0225WBL01

Date Analyzed: 02/25/2025 Time Analyzed: 11:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0225WBS01	VN0225WBS01	VN085850.D	02/25/2025
FB02222025	Q1415-05	VN085853.D	02/25/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0226SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021321.D Lab Sample ID: VY0226SBL01

Date Analyzed: 02/26/2025 Time Analyzed: 10:50

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025
VY0226SBSD01	VY0226SBSD01	VY021323.D	02/26/2025
B-172-SB01	Q1415-02	VY021335.D	02/26/2025
B-163-SB01	Q1415-01	VY021336.D	02/26/2025
B-172-SB02	Q1415-04	VY021337.D	02/26/2025
B-163-SB02	Q1415-03	VY021338.D	02/26/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0227SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021347.D Lab Sample ID: VY0227SBL01

Date Analyzed: 02/27/2025 Time Analyzed: 10:42

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025
B-163-SB02RE	Q1415-03RE	VY021355.D	02/27/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085771.D BFB Injection Date: 02/18/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:35

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	49.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.9 (96.5) 1
177	5.0 - 9.0% of mass 176	5.4 (6.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085772.D	02/18/2025	11:09
VSTDICCC050	VSTDICCC050	VN085773.D	02/18/2025	11:32
VSTDICC010	VSTDICC010	VN085775.D	02/18/2025	12:20
VSTDICC005	VSTDICC005	VN085776.D	02/18/2025	12:43
VSTDICC001	VSTDICC001	VN085777.D	02/18/2025	13:07
VSTDICC020	VSTDICC020	VN085779.D	02/18/2025	14:18

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085828.D BFB Injection Date: 02/24/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:50

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	44.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6
173	Less than 2.0% of mass 174	1.5 (2) 1
174	50.0 - 100.0% of mass 95	76.1
175	5.0 - 9.0% of mass 174	5.6 (7.4) 1
176	95.0 - 101.0% of mass 174	73.9 (97.1) 1
177	5.0 - 9.0% of mass 176	5.3 (7.2) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085829.D	02/24/2025	11:37
VN0224WBL01	VN0224WBL01	VN085831.D	02/24/2025	12:39
VN0224WBS01	VN0224WBS01	VN085832.D	02/24/2025	13:03
VN0224WBSD01	VN0224WBSD01	VN085833.D	02/24/2025	13:36
B-173-GW01	Q1415-06	VN085844.D	02/24/2025	18:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085846.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:11

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.3 (1.6) 1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	6.5 (7.9) 1
176	95.0 - 101.0% of mass 174	77.8 (95) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085847.D	02/25/2025	10:45
VN0225WBL01	VN0225WBL01	VN085849.D	02/25/2025	11:43
VN0225WBS01	VN0225WBS01	VN085850.D	02/25/2025	12:14
FB02222025	Q1415-05	VN085853.D	02/25/2025	13:36

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021308.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_Y BFB Injection Time: 12:10

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.8
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.6 (98.8) 1
177	5.0 - 9.0% of mass 176	5.5 (6.5) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY021309.D	02/25/2025	12:40
VSTDICC010	VSTDICC010	VY021310.D	02/25/2025	13:03
VSTDICC020	VSTDICC020	VY021311.D	02/25/2025	13:26
VSTDICCC050	VSTDICCC050	VY021312.D	02/25/2025	14:48
VSTDICC150	VSTDICC150	VY021314.D	02/25/2025	15:57
VSTDICC100	VSTDICC100	VY021316.D	02/25/2025	16:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021319.D BFB Injection Date: 02/26/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:12

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.5) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	6.5 (8.3) 1
176	95.0 - 101.0% of mass 174	75.9 (96.7) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021320.D	02/26/2025	10:11
VY0226SBL01	VY0226SBL01	VY021321.D	02/26/2025	10:50
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025	11:22
VY0226SBSD01	VY0226SBSD01	VY021323.D	02/26/2025	11:44
B-172-SB01	Q1415-02	VY021335.D	02/26/2025	16:37
B-163-SB01	Q1415-01	VY021336.D	02/26/2025	17:01
B-172-SB02	Q1415-04	VY021337.D	02/26/2025	17:24
B-163-SB02	Q1415-03	VY021338.D	02/26/2025	17:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021345.D BFB Injection Date: 02/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:41

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.5 (7.8) 1
176	95.0 - 101.0% of mass 174	80.4 (96.4) 1
177	5.0 - 9.0% of mass 176	5.2 (6.5) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY021346.D	02/27/2025	10:13
VY0227SBL01	VY0227SBL01	VY021347.D	02/27/2025	10:42
VY0227SBS01	VY0227SBS01	VY021348.D	02/27/2025	11:18
B-163-SB02RE	Q1415-03RE	VY021355.D	02/27/2025	14:01

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085829.D Date Analyzed: 02/24/2025

Instrument ID: MSVOA_N Time Analyzed: 11:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	270391	8.22	444288	9.10	401749	11.87
UPPER LIMIT	540782	8.718	888576	9.6	803498	12.365
LOWER LIMIT	135196	7.718	222144	8.6	200875	11.365
EPA SAMPLE NO.						
B-173-GW01	217128	8.22	416577	9.10	372406	11.87
VN0224WBL01	219652	8.22	415867	9.10	368217	11.87
VN0224WBS01	257358	8.22	436252	9.10	378131	11.87
VN0224WBSD01	254490	8.22	420351	9.10	372649	11.87

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085829.D Date Analyzed: 02/24/2025

Instrument ID: MSVOA_N Time Analyzed: 11:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	208250	13.788				
UPPER LIMIT	416500	14.288				
LOWER LIMIT	104125	13.288				
EPA SAMPLE NO.						
B-173-GW01	157372	13.79				
VN0224WBL01	141296	13.79				
VN0224WBS01	189869	13.79				
VN0224WBSD01	182403	13.79				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085847.D Date Analyzed: 02/25/2025

Instrument ID: MSVOA_N Time Analyzed: 10:45

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	262718	8.22	419879	9.10	388712	11.86
UPPER LIMIT	525436	8.723	839758	9.6	777424	12.364
LOWER LIMIT	131359	7.723	209940	8.6	194356	11.364
EPA SAMPLE NO.						
FB02222025	210441	8.22	393207	9.10	337792	11.87
VN0225WBL01	216938	8.22	423956	9.10	361345	11.87
VN0225WBS01	265043	8.22	437697	9.10	395653	11.87

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VN085847.D Date Analyzed: 02/25/2025

Instrument ID: MSVOA_N Time Analyzed: 10:45

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	207967	13.788				
UPPER LIMIT	415934	14.288				
LOWER LIMIT	103984	13.288				
EPA SAMPLE NO.						
FB02222025	121445	13.79				
VN0225WBL01	136612	13.79				
VN0225WBS01	197432	13.79				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021320.D Date Analyzed: 02/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:11

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #		RT #
12 HOUR STD	193888	7.71	308714	8.62	268805		11.42
UPPER LIMIT	387776	8.213	617428	9.116	537610		11.92
LOWER LIMIT	96944	7.213	154357	8.116	134403		10.92
EPA SAMPLE NO.							
B-163-SB01	198272	7.71	390694	8.62	393465		11.41
B-172-SB01	249275	7.71	482876	8.62	393781		11.41
B-163-SB02	278202	7.71	557389	8.62	583706	*	11.41
B-172-SB02	273603	7.71	518008	8.62	414734		11.41
VY0226SBL01	251129	7.71	483695	8.62	470141		11.42
VY0226SBS01	184417	7.71	291138	8.62	254891		11.41
VY0226SBSD01	186200	7.71	292071	8.62	258744		11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021320.D Date Analyzed: 02/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:11

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	131935	13.347				
UPPER LIMIT	263870	13.847				
LOWER LIMIT	65967.5	12.847				
EPA SAMPLE NO.						
B-163-SB01	168735	13.35				
B-172-SB01	105850	13.35				
B-163-SB02	249107	13.35				
B-172-SB02	117278	13.35				
VY0226SBL01	192201	13.35				
VY0226SBS01	128725	13.35				
VY0226SBSD01	129829	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #		RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	216838		7.71	336652	8.62	298167	11.42
UPPER LIMIT	433676		8.207	673304	9.116	596334	11.92
LOWER LIMIT	108419		7.207	168326	8.116	149084	10.92
EPA SAMPLE NO.							
B-163-SB02RE	98490	*	7.71	174802	8.61	165444	11.41
VY0227SBL01	140233		7.71	264026	8.62	255103	11.41
VY0227SBS01	199987		7.71	311959	8.62	272418	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: VY021346.D Date Analyzed: 02/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:13

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #		RT #				
12 HOUR STD	146841		13.347				
UPPER LIMIT	293682		13.847				
LOWER LIMIT	73420.5		12.847				
EPA SAMPLE NO.							
B-163-SB02RE	72948	*	13.35				
VY0227SBL01	107368		13.35				
VY0227SBS01	138215		13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.2		70 (74) - 130 (125)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.9		70 (75) - 130 (124)	110%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.3		70 (77) - 130 (121)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	8.224			
540-36-3	1,4-Difluorobenzene	416000	9.1			
3114-55-4	Chlorobenzene-d5	368000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085831.D	1		02/24/25 12:39	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.2		70 (74) - 130 (125)	124%	SPK: 50
1868-53-7	Dibromofluoromethane	55.8		70 (75) - 130 (124)	112%	SPK: 50
2037-26-5	Toluene-d8	48.9		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.9		70 (77) - 130 (121)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	8.224			
540-36-3	1,4-Difluorobenzene	424000	9.1			
3114-55-4	Chlorobenzene-d5	361000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBL01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085849.D	1		02/25/25 11:43	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.1		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (54) - 130 (147)	99%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	7.713			
540-36-3	1,4-Difluorobenzene	484000	8.615			
3114-55-4	Chlorobenzene-d5	470000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.70	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.77	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	1.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	1.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.78	U	0.78	5.00	ug/Kg
67-64-1	Acetone	6.20	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.30	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.67	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	1.80	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	3.40	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.84	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.63	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	0.69	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	5.70	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.87	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.87	U	0.87	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.61	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.56	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	4.40	U	4.40	25.0	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.57	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.84	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	4.80	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.79	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	0.89	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	0.74	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	0.70	U	0.70	5.00	ug/Kg
100-42-5	Styrene	0.60	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	0.81	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.74	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.80	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.59	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.60	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.79	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.78	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.2		70 (50) - 130 (163)	118%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (58) - 130 (134)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		70 (29) - 130 (146)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	140000	7.707			
540-36-3	1,4-Difluorobenzene	264000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBL01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021347.D	1		02/27/25 10:42	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.8		0.21	1.00	ug/L
74-87-3	Chloromethane	19.6		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.6		0.34	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	5.00	ug/L
75-00-3	Chloroethane	19.2		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.7		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.4		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	24.9		0.18	1.00	ug/L
67-66-3	Chloroform	20.8		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.8		0.19	1.00	ug/L
71-43-2	Benzene	20.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.1		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.3		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.9		0.21	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.3		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.0		0.31	2.00	ug/L
95-47-6	o-Xylene	20.6		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.0		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	49.4		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	257000	8.224			
540-36-3	1,4-Difluorobenzene	436000	9.1			
3114-55-4	Chlorobenzene-d5	378000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085832.D	1		02/24/25 13:03	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.0		0.21	1.00	ug/L
74-87-3	Chloromethane	19.0		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.34	1.00	ug/L
74-83-9	Bromomethane	18.1		1.40	5.00	ug/L
75-00-3	Chloroethane	18.1		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.1		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.8		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.2		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.3		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.5		0.18	1.00	ug/L
67-66-3	Chloroform	19.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.19	1.00	ug/L
71-43-2	Benzene	19.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	18.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	20.9		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.2		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	40.9		0.31	2.00	ug/L
95-47-6	o-Xylene	19.4		0.14	1.00	ug/L
100-42-5	Styrene	19.6		0.16	1.00	ug/L
75-25-2	Bromoform	21.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.8		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.5		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	265000	8.224			
540-36-3	1,4-Difluorobenzene	438000	9.1			
3114-55-4	Chlorobenzene-d5	396000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	197000	13.794			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0225WBS01	SDG No.:	Q1415
Lab Sample ID:	VN0225WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085850.D	1		02/25/25 12:14	VN022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.9		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.0		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.0		0.78	5.00	ug/Kg
67-64-1	Acetone	94.9		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.9		0.69	5.00	ug/Kg
78-93-3	2-Butanone	92.9		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.2		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.3		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.9		0.87	5.00	ug/Kg
71-43-2	Benzene	19.3		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.2		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.2		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.1		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.3		4.40	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	93.8		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.3		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.8		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.2		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.0		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.3		0.70	5.00	ug/Kg
100-42-5	Styrene	19.3		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.8		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.7		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7		70 (50) - 130 (163)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (54) - 130 (147)	95%	SPK: 50
2037-26-5	Toluene-d8	47.6		70 (58) - 130 (134)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	7.707			
540-36-3	1,4-Difluorobenzene	291000	8.615			
3114-55-4	Chlorobenzene-d5	255000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.6		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.5		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.1		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.5		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.7		0.69	5.00	ug/Kg
78-93-3	2-Butanone	97.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.9		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.0		2.40	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.0		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.3		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	20.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.0		4.40	25.0	ug/Kg
108-88-3	Toluene	20.2		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.4		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	95.9		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.8		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.4		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.8		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.0		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (58) - 130 (134)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (29) - 130 (146)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	312000	8.616			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0227SBS01	SDG No.:	Q1415
Lab Sample ID:	VY0227SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021348.D	1		02/27/25 11:18	VY022725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBSD01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		0.21	1.00	ug/L
74-87-3	Chloromethane	19.9		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	19.1		0.34	1.00	ug/L
74-83-9	Bromomethane	19.0		1.40	5.00	ug/L
75-00-3	Chloroethane	18.9		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.3		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		0.26	1.00	ug/L
67-64-1	Acetone	120		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.9		0.16	1.00	ug/L
79-20-9	Methyl Acetate	23.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.3		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.1		1.60	5.00	ug/L
78-93-3	2-Butanone	120		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.25	1.00	ug/L
74-97-5	Bromochloromethane	25.0		0.18	1.00	ug/L
67-66-3	Chloroform	20.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	18.1		0.19	1.00	ug/L
71-43-2	Benzene	20.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.1		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.8		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	5.00	ug/L
108-88-3	Toluene	21.1		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBSD01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.8		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.9		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	42.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.3		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.5		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.2		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.5		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.1		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	254000	8.224			
540-36-3	1,4-Difluorobenzene	420000	9.1			
3114-55-4	Chlorobenzene-d5	373000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	182000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0224WBSD01	SDG No.:	Q1415
Lab Sample ID:	VN0224WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085833.D	1		02/24/25 13:36	VN022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.4		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.6		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.2		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.2		0.78	5.00	ug/Kg
67-64-1	Acetone	91.3		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.5		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.2		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.4		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	94.4		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.9		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.7		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.6		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.5		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	97.8		4.40	25.0	ug/Kg
108-88-3	Toluene	19.7		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.8		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	96.5		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	19.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.8		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.0		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.9		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (50) - 130 (163)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	49.9		70 (58) - 130 (134)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		70 (29) - 130 (146)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	186000	7.707			
540-36-3	1,4-Difluorobenzene	292000	8.615			
3114-55-4	Chlorobenzene-d5	259000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0226SBSD01	SDG No.:	Q1415
Lab Sample ID:	VY0226SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021323.D	1		02/26/25 11:44	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN085772.D RRF050 = VN085773.D RRF010 = VN085775.D
RRF005 = VN085776.D RRF001 = VN085777.D RRF020 = VN085779.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.694	0.669	0.779	0.650	0.660	0.628	0.680	7.8
Chloromethane	0.647	0.622	0.742	0.662	0.817	0.604	0.682	11.9
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7
Bromomethane	0.434	0.424	0.543	0.496		0.413	0.462	12.1
Chloroethane	0.447	0.417	0.516	0.470	0.584	0.438	0.479	12.9
Trichlorofluoromethane	1.010	0.959	1.134	1.065	1.103	1.006	1.046	6.3
1,1,2-Trichlorotrifluoroethane	0.602	0.564	0.674	0.635	0.554	0.599	0.605	7.4
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3
Acetone	0.195	0.184	0.217	0.208	0.227	0.198	0.205	7.7
Carbon Disulfide	1.565	1.473	1.804	1.604	1.848	1.455	1.625	10.2
Methyl tert-butyl Ether	1.747	1.658	1.714	1.560	1.438	1.659	1.629	7
Methyl Acetate	0.653	0.619	0.794	0.690	0.853	0.625	0.705	13.7
Methylene Chloride	0.628	0.593	0.710	0.666	0.736	0.625	0.660	8.3
trans-1,2-Dichloroethene	0.585	0.549	0.621	0.599	0.623	0.566	0.590	5.1
1,1-Dichloroethane	1.097	1.035	1.216	1.125	1.073	1.089	1.106	5.6
Cyclohexane	0.878	0.860	0.977	1.056		0.858	0.926	9.5
2-Butanone	0.308	0.294	0.331	0.299	0.279	0.299	0.302	5.6
Carbon Tetrachloride	0.573	0.528	0.583	0.545	0.533	0.538	0.550	4.1
cis-1,2-Dichloroethene	0.705	0.661	0.740	0.685	0.646	0.671	0.685	4.9
Bromochloromethane	0.481	0.444	0.346	0.570	0.483	0.402	0.454	17
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7
1,1,1-Trichloroethane	1.012	0.967	1.089	1.058	1.030	1.012	1.028	4.1
Methylcyclohexane	0.560	0.492	0.446	0.405	0.373	0.453	0.455	14.5
Benzene	1.581	1.441	1.568	1.421	1.420	1.474	1.484	4.9
1,2-Dichloroethane	0.499	0.456	0.527	0.464	0.472	0.483	0.483	5.4
Trichloroethene	0.370	0.339	0.384	0.350	0.395	0.348	0.364	6.1
1,2-Dichloropropane	0.377	0.347	0.385	0.344	0.339	0.357	0.358	5.2
Bromodichloromethane	0.569	0.518	0.571	0.533	0.512	0.541	0.541	4.6
4-Methyl-2-Pentanone	0.414	0.379	0.392	0.342	0.290	0.388	0.367	12.1
Toluene	0.993	0.902	0.924	0.820	0.689	0.891	0.870	12

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF100 = VN085772.D RRF050 = VN085773.D RRF010 = VN085775.D
RRF005 = VN085776.D RRF001 = VN085777.D RRF020 = VN085779.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.576	0.521	0.518	0.471	0.408	0.505	0.500	11.3
cis-1,3-Dichloropropene	0.626	0.566	0.582	0.513	0.442	0.559	0.548	11.6
1,1,2-Trichloroethane	0.361	0.331	0.370	0.346	0.324	0.344	0.346	5
2-Hexanone	0.296	0.273	0.266	0.227	0.184	0.270	0.253	16
Dibromochloromethane	0.440	0.402	0.431	0.384	0.355	0.405	0.403	7.7
1,2-Dibromoethane	0.354	0.322	0.362	0.320	0.273	0.330	0.327	9.7
Tetrachloroethene	0.384	0.361	0.420	0.391	0.393	0.375	0.387	5.2
Chlorobenzene	1.183	1.110	1.212	1.139	1.109	1.119	1.145	3.8
Ethyl Benzene	2.105	1.904	1.830	1.665	1.424	1.838	1.794	12.8
m/p-Xylenes	0.809	0.741	0.725	0.610	0.481	0.722	0.682	17.2
o-Xylene	0.771	0.704	0.666	0.584	0.502	0.659	0.648	14.5
Styrene	1.327	1.203	1.060	0.885	0.744	1.133	1.059	20.2
Bromoform	0.327	0.303	0.322	0.301	0.274	0.309	0.306	6.2
Isopropylbenzene	3.851	3.596	3.623	3.067	2.933	3.484	3.425	10.3
1,1,2,2-Tetrachloroethane	1.073	1.053	1.304	1.218	1.271	1.154	1.179	8.8
1,3-Dichlorobenzene	1.772	1.635	1.876	1.697	1.748	1.675	1.734	4.9
1,4-Dichlorobenzene	1.750	1.647	1.884	1.777	1.921	1.684	1.777	6.1
1,2-Dichlorobenzene	1.660	1.574	1.768	1.642	1.744	1.617	1.667	4.5
1,2-Dibromo-3-Chloropropane	0.198	0.193	0.238	0.222	0.256	0.191	0.216	12.4
1,2,4-Trichlorobenzene	0.877	0.802	0.827	0.728	0.829	0.704	0.794	8.3
1,2,3-Trichlorobenzene	0.825	0.789	0.844	0.736	0.917	0.675	0.798	10.6
1,2-Dichloroethane-d4	0.698	0.613	0.588	0.767		0.575	0.648	12.6
Dibromofluoromethane	0.375	0.317	0.294	0.357		0.293	0.327	11.5
Toluene-d8	1.444	1.199	1.017	1.212		1.080	1.190	13.8
4-Bromofluorobenzene	0.503	0.419	0.323	0.370		0.346	0.392	18.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.510	0.484	0.431	0.493	0.480	0.447	0.474	6.2
Chloromethane	0.709	0.628	0.566	0.602	0.597	0.570	0.612	8.6
Vinyl Chloride	0.648	0.591	0.554	0.627	0.606	0.580	0.601	5.6
Bromomethane	0.505	0.414	0.361	0.387	0.371	0.359	0.399	13.9
Chloroethane	0.414	0.365	0.347	0.390	0.365	0.355	0.373	6.7
Trichlorofluoromethane	0.976	0.915	0.838	0.936	0.909	0.870	0.908	5.3
1,1,2-Trichlorotrifluoroethane	0.546	0.529	0.491	0.537	0.541	0.508	0.525	4.1
1,1-Dichloroethene	0.545	0.489	0.462	0.515	0.518	0.490	0.503	5.7
Acetone	0.122	0.102	0.094	0.128	0.104	0.103	0.109	11.9
Carbon Disulfide	1.800	1.652	1.540	1.734	1.678	1.620	1.671	5.4
Methyl tert-butyl Ether	1.312	1.268	1.267	1.410	1.410	1.307	1.329	4.9
Methyl Acetate	0.285	0.249	0.259	0.276	0.276	0.250	0.266	5.7
Methylene Chloride	0.733	0.598	0.539	0.585	0.547	0.529	0.588	12.8
trans-1,2-Dichloroethene	0.589	0.536	0.507	0.573	0.570	0.547	0.554	5.4
1,1-Dichloroethane	1.101	1.032	0.961	1.083	1.058	1.007	1.040	4.9
Cyclohexane	1.182	1.025	0.910	0.989	0.971	0.923	1.000	9.9
2-Butanone	0.162	0.155	0.156	0.183	0.171	0.159	0.164	6.5
Carbon Tetrachloride	0.567	0.562	0.509	0.581	0.567	0.535	0.554	4.8
cis-1,2-Dichloroethene	0.649	0.610	0.588	0.665	0.656	0.626	0.632	4.7
Bromochloromethane	0.525	0.442	0.438	0.454	0.464	0.439	0.460	7.2
Chloroform	1.128	1.046	0.977	1.095	1.062	1.017	1.054	5.1
1,1,1-Trichloroethane	1.020	0.956	0.889	0.986	0.979	0.927	0.960	4.8
Methylcyclohexane	0.597	0.613	0.584	0.662	0.663	0.618	0.623	5.3
Benzene	1.515	1.445	1.359	1.533	1.472	1.409	1.456	4.5
1,2-Dichloroethane	0.422	0.417	0.393	0.434	0.419	0.394	0.413	3.9
Trichloroethene	0.375	0.360	0.341	0.382	0.375	0.354	0.364	4.3
1,2-Dichloropropane	0.360	0.350	0.329	0.371	0.357	0.336	0.350	4.5
Bromodichloromethane	0.519	0.503	0.477	0.541	0.528	0.495	0.511	4.5
4-Methyl-2-Pentanone	0.220	0.227	0.239	0.267	0.264	0.238	0.243	7.9
Toluene	0.887	0.888	0.852	0.965	0.936	0.897	0.904	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.438	0.436	0.434	0.515	0.509	0.474	0.468	8
cis-1,3-Dichloropropene	0.541	0.526	0.528	0.591	0.581	0.546	0.552	5
1,1,2-Trichloroethane	0.250	0.251	0.238	0.267	0.254	0.237	0.249	4.4
2-Hexanone	0.133	0.146	0.155	0.183	0.178	0.162	0.159	11.9
Dibromochloromethane	0.340	0.325	0.322	0.368	0.352	0.332	0.340	5.2
1,2-Dibromoethane	0.234	0.231	0.226	0.254	0.245	0.227	0.236	4.7
Tetrachloroethene	0.405	0.380	0.351	0.389	0.386	0.355	0.378	5.5
Chlorobenzene	1.171	1.111	1.039	1.176	1.159	1.078	1.122	5
Ethyl Benzene	1.938	1.941	1.826	2.130	2.115	1.979	1.988	5.8
m/p-Xylenes	0.735	0.738	0.696	0.802	0.783	0.733	0.748	5.1
o-Xylene	0.689	0.675	0.648	0.758	0.739	0.694	0.701	5.9
Styrene	1.081	1.128	1.091	1.277	1.257	1.159	1.166	7.2
Bromoform	0.221	0.221	0.211	0.246	0.236	0.214	0.225	5.9
Isopropylbenzene	3.744	3.605	3.437	3.976	4.009	3.783	3.759	5.8
1,1,2,2-Tetrachloroethane	0.700	0.649	0.621	0.697	0.689	0.624	0.663	5.5
1,3-Dichlorobenzene	1.812	1.729	1.598	1.792	1.777	1.668	1.730	4.8
1,4-Dichlorobenzene	1.825	1.710	1.593	1.751	1.744	1.629	1.709	5
1,2-Dichlorobenzene	1.599	1.499	1.408	1.575	1.564	1.446	1.515	5.1
1,2-Dibromo-3-Chloropropane	0.103	0.097	0.099	0.113	0.115	0.102	0.105	7.2
1,2,4-Trichlorobenzene	0.906	0.848	0.822	0.968	1.053	0.950	0.925	9.2
1,2,3-Trichlorobenzene	0.742	0.719	0.698	0.824	0.896	0.809	0.781	9.6
1,2-Dichloroethane-d4	0.681	0.510	0.548	0.551	0.566	0.547	0.567	10.3
Dibromofluoromethane	0.370	0.299	0.317	0.325	0.334	0.322	0.328	7.2
Toluene-d8	1.420	1.158	1.230	1.251	1.290	1.253	1.267	6.8
4-Bromofluorobenzene	0.490	0.387	0.404	0.423	0.435	0.420	0.426	8.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.700		2.94	20
Chloromethane	0.682	0.660	0.1	-3.23	20
Vinyl Chloride	0.723	0.719		-0.55	20
Bromomethane	0.462	0.437		-5.41	20
Chloroethane	0.479	0.461		-3.76	20
Trichlorofluoromethane	1.046	1.056		0.96	20
1,1,2-Trichlorotrifluoroethane	0.605	0.643		6.28	20
1,1-Dichloroethene	0.548	0.569		3.83	20
Acetone	0.205	0.217		5.85	20
Carbon Disulfide	1.625	1.541		-5.17	20
Methyl tert-butyl Ether	1.629	1.821		11.73	20
Methyl Acetate	0.705	0.776		10.07	20
Methylene Chloride	0.660	0.670		1.51	20
trans-1,2-Dichloroethene	0.590	0.607		2.88	20
1,1-Dichloroethane	1.106	1.163	0.1	5.15	20
Cyclohexane	0.926	0.906		-2.16	20
2-Butanone	0.302	0.356		17.88	20
Carbon Tetrachloride	0.550	0.590		7.27	20
cis-1,2-Dichloroethene	0.685	0.716		4.53	20
Bromochloromethane	0.454	0.496		9.25	20
Chloroform	1.156	1.205		4.24	20
1,1,1-Trichloroethane	1.028	1.063		3.4	20
Methylcyclohexane	0.455	0.502		10.33	20
Benzene	1.484	1.612		8.63	20
1,2-Dichloroethane	0.483	0.508		5.18	20
Trichloroethene	0.364	0.369		1.37	20
1,2-Dichloropropane	0.358	0.395		10.34	20
Bromodichloromethane	0.541	0.579		7.02	20
4-Methyl-2-Pentanone	0.367	0.466		26.98	20
Toluene	0.870	1.009		15.98	20
t-1,3-Dichloropropene	0.500	0.566		13.2	20
cis-1,3-Dichloropropene	0.548	0.613		11.86	20
1,1,2-Trichloroethane	0.346	0.386		11.56	20
2-Hexanone	0.253	0.338		33.6	20
Dibromochloromethane	0.403	0.459		13.9	20
1,2-Dibromoethane	0.327	0.376		14.98	20
Tetrachloroethene	0.387	0.388		0.26	20
Chlorobenzene	1.145	1.187	0.3	3.67	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/24/2025 11:37

Lab File ID: VN085829.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	2.058		14.72	20
m/p-Xylenes	0.682	0.815		19.5	20
o-Xylene	0.648	0.761		17.44	20
Styrene	1.059	1.326		25.21	20
Bromoform	0.306	0.351	0.1	14.71	20
Isopropylbenzene	3.425	3.702		8.09	20
1,1,2,2-Tetrachloroethane	1.179	1.192	0.3	1.1	20
1,3-Dichlorobenzene	1.734	1.758		1.38	20
1,4-Dichlorobenzene	1.777	1.724		-2.98	20
1,2-Dichlorobenzene	1.667	1.700		1.92	20
1,2-Dibromo-3-Chloropropane	0.216	0.219		1.39	20
1,2,4-Trichlorobenzene	0.794	0.808		1.76	20
1,2,3-Trichlorobenzene	0.798	0.802		0.5	20
1,2-Dichloroethane-d4	0.648	0.721		11.27	20
Dibromofluoromethane	0.327	0.384		17.43	20
Toluene-d8	1.190	1.428		20	20
4-Bromofluorobenzene	0.392	0.497		26.79	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/25/2025 10:45

Lab File ID: VN085847.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.680	0.608		-10.59	20
Chloromethane	0.682	0.586	0.1	-14.08	20
Vinyl Chloride	0.723	0.632		-12.59	20
Bromomethane	0.462	0.373		-19.26	20
Chloroethane	0.479	0.402		-16.08	20
Trichlorofluoromethane	1.046	0.920		-12.05	20
1,1,2-Trichlorotrifluoroethane	0.605	0.565		-6.61	20
1,1-Dichloroethene	0.548	0.491		-10.4	20
Acetone	0.205	0.208		1.46	20
Carbon Disulfide	1.625	1.327		-18.34	20
Methyl tert-butyl Ether	1.629	1.593		-2.21	20
Methyl Acetate	0.705	0.729		3.4	20
Methylene Chloride	0.660	0.599		-9.24	20
trans-1,2-Dichloroethene	0.590	0.532		-9.83	20
1,1-Dichloroethane	1.106	1.018	0.1	-7.96	20
Cyclohexane	0.926	0.766		-17.28	20
2-Butanone	0.302	0.333		10.27	20
Carbon Tetrachloride	0.550	0.525		-4.55	20
cis-1,2-Dichloroethene	0.685	0.621		-9.34	20
Bromochloromethane	0.454	0.518		14.1	20
Chloroform	1.156	1.085		-6.14	20
1,1,1-Trichloroethane	1.028	0.929		-9.63	20
Methylcyclohexane	0.455	0.419		-7.91	20
Benzene	1.484	1.448		-2.43	20
1,2-Dichloroethane	0.483	0.463		-4.14	20
Trichloroethene	0.364	0.326		-10.44	20
1,2-Dichloropropane	0.358	0.359		0.28	20
Bromodichloromethane	0.541	0.535		-1.11	20
4-Methyl-2-Pentanone	0.367	0.450		22.62	20
Toluene	0.870	0.907		4.25	20
t-1,3-Dichloropropene	0.500	0.511		2.2	20
cis-1,3-Dichloropropene	0.548	0.557		1.64	20
1,1,2-Trichloroethane	0.346	0.354		2.31	20
2-Hexanone	0.253	0.331		30.83	20
Dibromochloromethane	0.403	0.420		4.22	20
1,2-Dibromoethane	0.327	0.343		4.89	20
Tetrachloroethene	0.387	0.335		-13.44	20
Chlorobenzene	1.145	1.068	0.3	-6.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_N Calibration Date/Time: 02/25/2025 10:45

Lab File ID: VN085847.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.794	1.793		-0.06	20
m/p-Xylenes	0.682	0.728		6.74	20
o-Xylene	0.648	0.671		3.55	20
Styrene	1.059	1.195		12.84	20
Bromoform	0.306	0.321	0.1	4.9	20
Isopropylbenzene	3.425	3.110		-9.2	20
1,1,2,2-Tetrachloroethane	1.179	1.075	0.3	-8.82	20
1,3-Dichlorobenzene	1.734	1.565		-9.75	20
1,4-Dichlorobenzene	1.777	1.541		-13.28	20
1,2-Dichlorobenzene	1.667	1.504		-9.78	20
1,2-Dibromo-3-Chloropropane	0.216	0.197		-8.8	20
1,2,4-Trichlorobenzene	0.794	0.683		-13.98	20
1,2,3-Trichlorobenzene	0.798	0.688		-13.78	20
1,2-Dichloroethane-d4	0.648	0.675		4.17	20
Dibromofluoromethane	0.327	0.368		12.54	20
Toluene-d8	1.190	1.350		13.36	20
4-Bromofluorobenzene	0.392	0.481		22.7	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.442		-6.75	20
Chloromethane	0.612	0.581	0.1	-5.07	20
Vinyl Chloride	0.601	0.586		-2.5	20
Bromomethane	0.399	0.370		-7.27	20
Chloroethane	0.373	0.363		-2.68	20
Trichlorofluoromethane	0.908	0.866		-4.63	20
1,1,2-Trichlorotrifluoroethane	0.525	0.496		-5.52	20
1,1-Dichloroethene	0.503	0.487		-3.18	20
Acetone	0.109	0.113		3.67	20
Carbon Disulfide	1.671	1.628		-2.57	20
Methyl tert-butyl Ether	1.329	1.308		-1.58	20
Methyl Acetate	0.266	0.257		-3.38	20
Methylene Chloride	0.588	0.533		-9.35	20
trans-1,2-Dichloroethene	0.554	0.540		-2.53	20
1,1-Dichloroethane	1.040	1.021	0.1	-1.83	20
Cyclohexane	1.000	0.922		-7.8	20
2-Butanone	0.164	0.162		-1.22	20
Carbon Tetrachloride	0.554	0.536		-3.25	20
cis-1,2-Dichloroethene	0.632	0.633		0.16	20
Bromochloromethane	0.460	0.435		-5.43	20
Chloroform	1.054	1.038		-1.52	20
1,1,1-Trichloroethane	0.960	0.936		-2.5	20
Methylcyclohexane	0.623	0.578		-7.22	20
Benzene	1.456	1.415		-2.82	20
1,2-Dichloroethane	0.413	0.396		-4.12	20
Trichloroethene	0.364	0.355		-2.47	20
1,2-Dichloropropane	0.350	0.341		-2.57	20
Bromodichloromethane	0.511	0.494		-3.33	20
4-Methyl-2-Pentanone	0.243	0.234		-3.7	20
Toluene	0.904	0.892		-1.33	20
t-1,3-Dichloropropene	0.468	0.468		0	20
cis-1,3-Dichloropropene	0.552	0.543		-1.63	20
1,1,2-Trichloroethane	0.249	0.236		-5.22	20
2-Hexanone	0.159	0.159		0	20
Dibromochloromethane	0.340	0.332		-2.35	20
1,2-Dibromoethane	0.236	0.224		-5.09	20
Tetrachloroethene	0.378	0.359		-5.03	20
Chlorobenzene	1.122	1.091	0.3	-2.76	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.972		-0.81	20
m/p-Xylenes	0.748	0.735		-1.74	20
o-Xylene	0.701	0.696		-0.71	20
Styrene	1.166	1.176		0.86	20
Bromoform	0.225	0.217	0.1	-3.56	20
Isopropylbenzene	3.759	3.742		-0.45	20
1,1,2,2-Tetrachloroethane	0.663	0.639	0.3	-3.62	20
1,3-Dichlorobenzene	1.730	1.676		-3.12	20
1,4-Dichlorobenzene	1.709	1.633		-4.45	20
1,2-Dichlorobenzene	1.515	1.469		-3.04	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.884		-4.43	20
1,2,3-Trichlorobenzene	0.781	0.747		-4.35	20
1,2-Dichloroethane-d4	0.567	0.544		-4.06	20
Dibromofluoromethane	0.328	0.320		-2.44	20
Toluene-d8	1.267	1.257		-0.79	20
4-Bromofluorobenzene	0.426	0.420		-1.41	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.474	0.413		-12.87	20
Chloromethane	0.612	0.531	0.1	-13.23	20
Vinyl Chloride	0.601	0.554		-7.82	20
Bromomethane	0.399	0.355		-11.03	20
Chloroethane	0.373	0.354		-5.09	20
Trichlorofluoromethane	0.908	0.857		-5.62	20
1,1,2-Trichlorotrifluoroethane	0.525	0.483		-8	20
1,1-Dichloroethene	0.503	0.467		-7.16	20
Acetone	0.109	0.108		-0.92	20
Carbon Disulfide	1.671	1.540		-7.84	20
Methyl tert-butyl Ether	1.329	1.304		-1.88	20
Methyl Acetate	0.266	0.254		-4.51	20
Methylene Chloride	0.588	0.523		-11.05	20
trans-1,2-Dichloroethene	0.554	0.533		-3.79	20
1,1-Dichloroethane	1.040	0.977	0.1	-6.06	20
Cyclohexane	1.000	0.858		-14.2	20
2-Butanone	0.164	0.156		-4.88	20
Carbon Tetrachloride	0.554	0.524		-5.41	20
cis-1,2-Dichloroethene	0.632	0.615		-2.69	20
Bromochloromethane	0.460	0.454		-1.3	20
Chloroform	1.054	0.999		-5.22	20
1,1,1-Trichloroethane	0.960	0.904		-5.83	20
Methylcyclohexane	0.623	0.568		-8.83	20
Benzene	1.456	1.381		-5.15	20
1,2-Dichloroethane	0.413	0.403		-2.42	20
Trichloroethene	0.364	0.350		-3.85	20
1,2-Dichloropropane	0.350	0.331		-5.43	20
Bromodichloromethane	0.511	0.501		-1.96	20
4-Methyl-2-Pentanone	0.243	0.236		-2.88	20
Toluene	0.904	0.878		-2.88	20
t-1,3-Dichloropropene	0.468	0.463		-1.07	20
cis-1,3-Dichloropropene	0.552	0.535		-3.08	20
1,1,2-Trichloroethane	0.249	0.238		-4.42	20
2-Hexanone	0.159	0.157		-1.26	20
Dibromochloromethane	0.340	0.334		-1.76	20
1,2-Dibromoethane	0.236	0.228		-3.39	20
Tetrachloroethene	0.378	0.347		-8.2	20
Chlorobenzene	1.122	1.069	0.3	-4.72	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: MSVOA_Y Calibration Date/Time: 02/27/2025 10:13

Lab File ID: VY021346.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.988	1.908		-4.02	20
m/p-Xylenes	0.748	0.712		-4.81	20
o-Xylene	0.701	0.674		-3.85	20
Styrene	1.166	1.136		-2.57	20
Bromoform	0.225	0.221	0.1	-1.78	20
Isopropylbenzene	3.759	3.639		-3.19	20
1,1,2,2-Tetrachloroethane	0.663	0.638	0.3	-3.77	20
1,3-Dichlorobenzene	1.730	1.628		-5.9	20
1,4-Dichlorobenzene	1.709	1.598		-6.49	20
1,2-Dichlorobenzene	1.515	1.449		-4.36	20
1,2-Dibromo-3-Chloropropane	0.105	0.099		-5.71	20
1,2,4-Trichlorobenzene	0.925	0.872		-5.73	20
1,2,3-Trichlorobenzene	0.781	0.739		-5.38	20
1,2-Dichloroethane-d4	0.567	0.558		-1.59	20
Dibromofluoromethane	0.328	0.334		1.83	20
Toluene-d8	1.267	1.261		-0.47	20
4-Bromofluorobenzene	0.426	0.425		-0.23	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Time: Feb 27 00:40:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

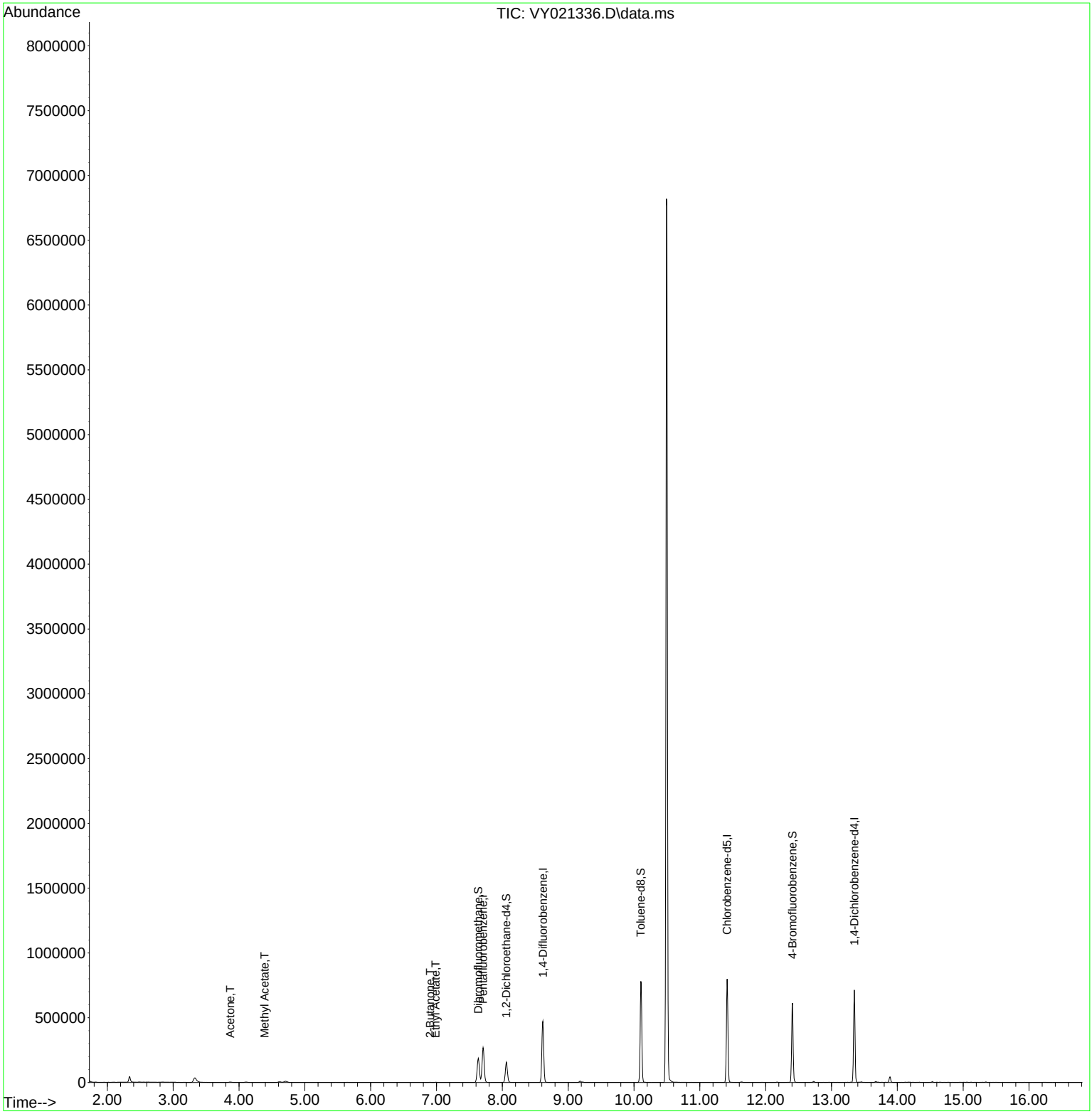
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	198272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	390694	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	393465	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	168735	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	123934	55.101	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.200%			
35) Dibromofluoromethane	7.634	113	128943	50.340	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.680%			
50) Toluene-d8	10.103	98	489572	49.456	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.920%			
62) 4-Bromofluorobenzene	12.408	95	173918	52.204	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 104.400%			
Target Compounds						Qvalue
16) Acetone	3.866	43	5326	12.344	ug/l	98
18) Methyl Acetate	4.391	43	1408	1.335	ug/l #	86
25) 2-Butanone	6.902	43	1395	2.142	ug/l	91
37) Ethyl Acetate	6.988	43	2363	1.235	ug/l #	86

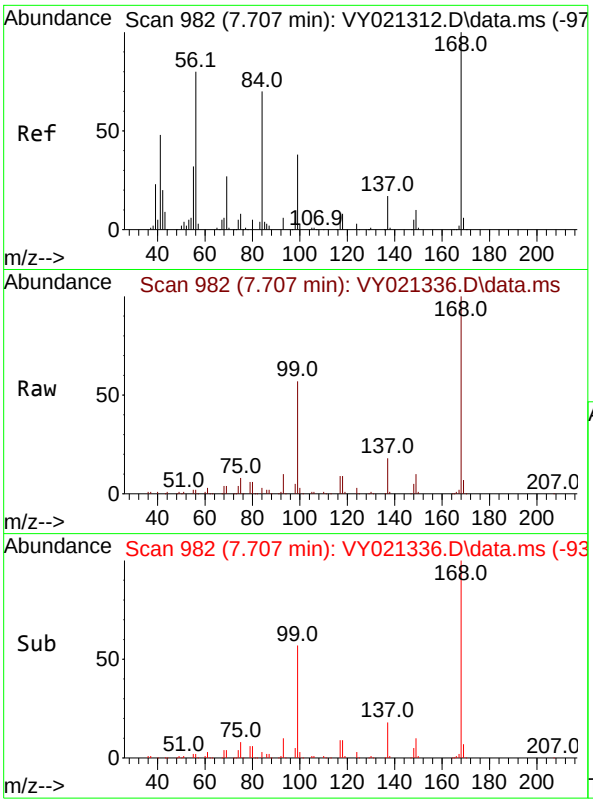
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Time: Feb 27 00:40:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



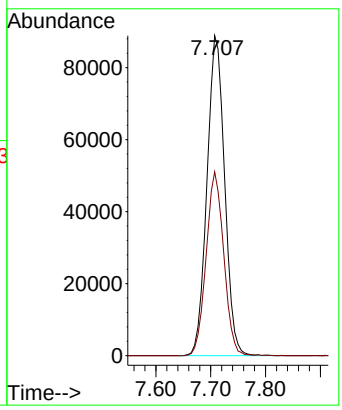


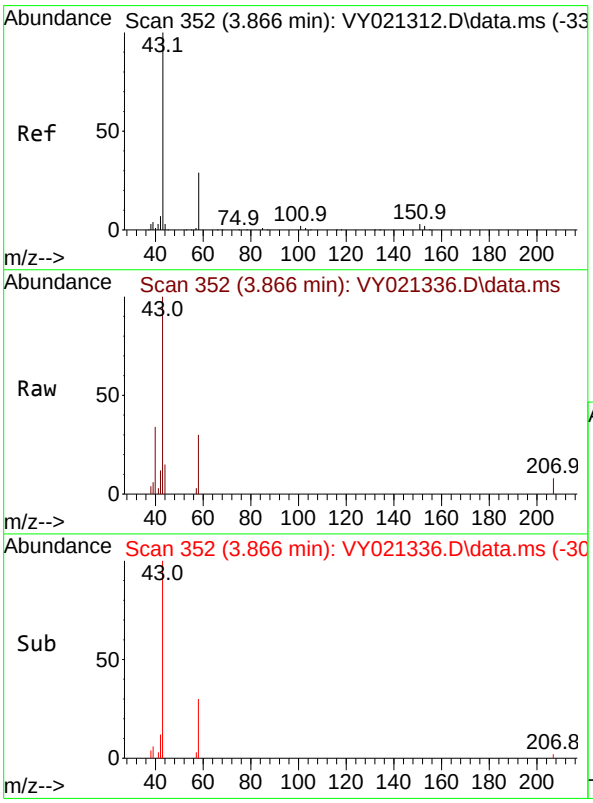
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion:168 Resp: 198272

Ion	Ratio	Lower	Upper
168	100		
99	57.4	47.1	70.7

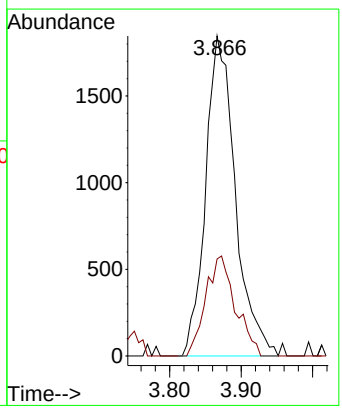


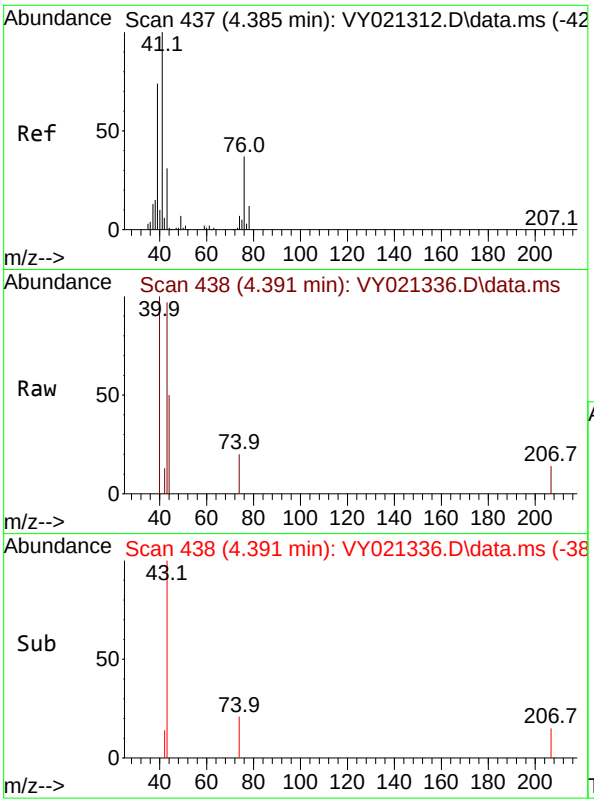


#16
Acetone
Concen: 12.344 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 43 Resp: 5326

Ion	Ratio	Lower	Upper
43	100		
58	30.3	23.5	35.3



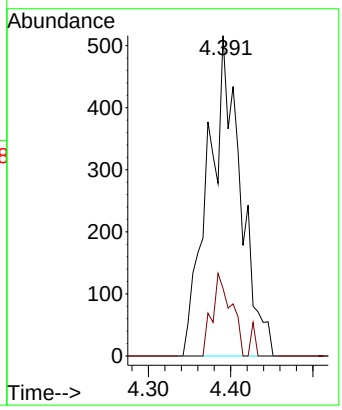


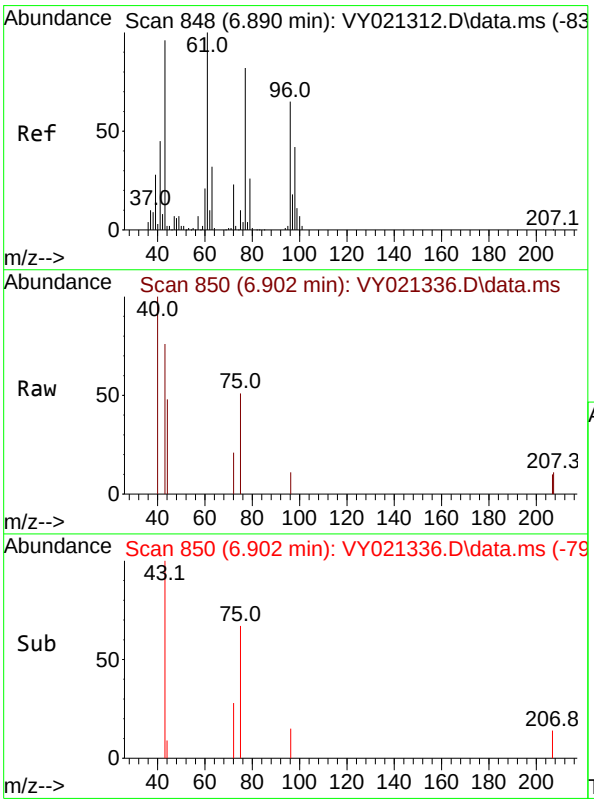
#18
Methyl Acetate
Concen: 1.335 ug/l
RT: 4.391 min Scan# 4
Delta R.T. 0.006 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion: 43 Resp: 1408

Ion	Ratio	Lower	Upper
43	100		
74	15.3	17.7	26.5#

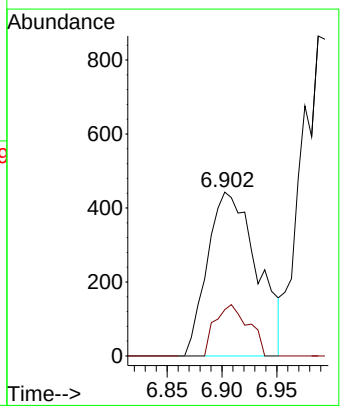


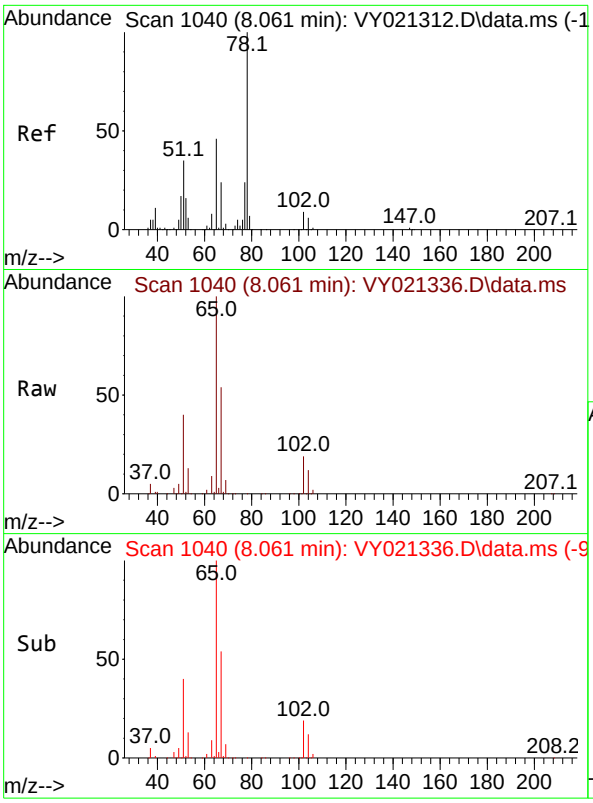


#25
2-Butanone
Concen: 2.142 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 43 Resp: 1395

Ion	Ratio	Lower	Upper
43	100		
72	28.2	19.0	28.6



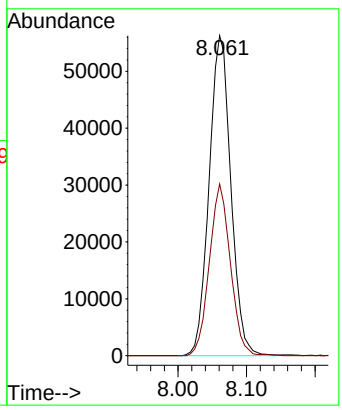


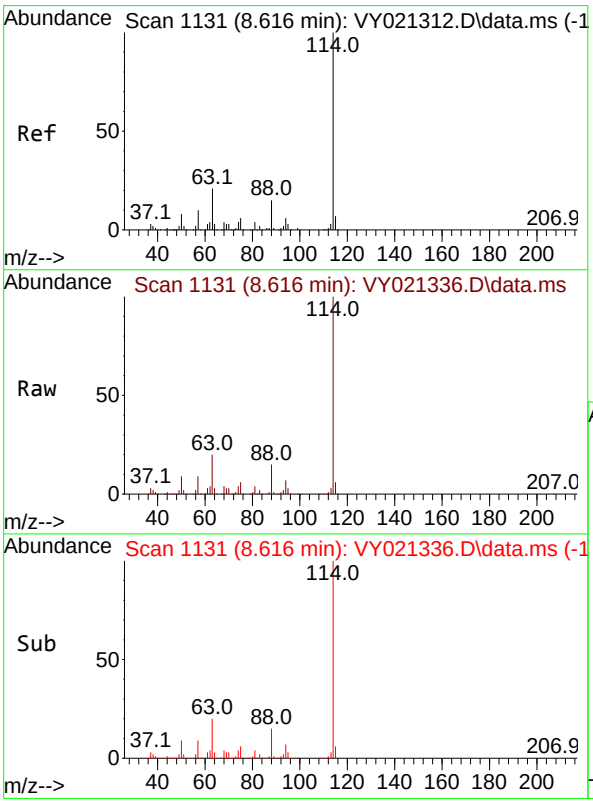
#33
1,2-Dichloroethane-d4
Concen: 55.101 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion: 65 Resp: 123934

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.6

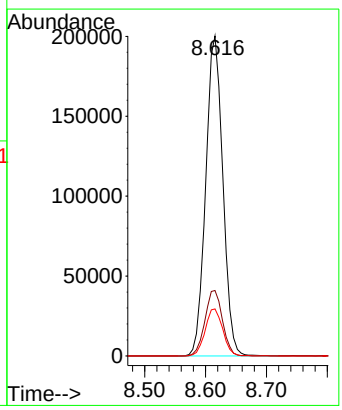




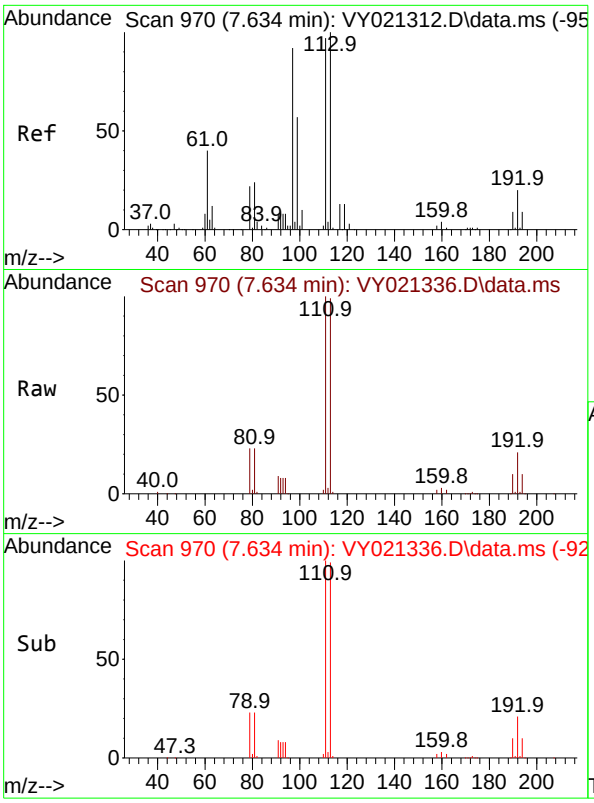
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion:114 Resp: 390694

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.2
88	14.7	0.0	29.8



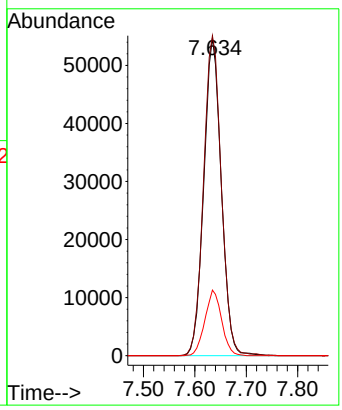
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

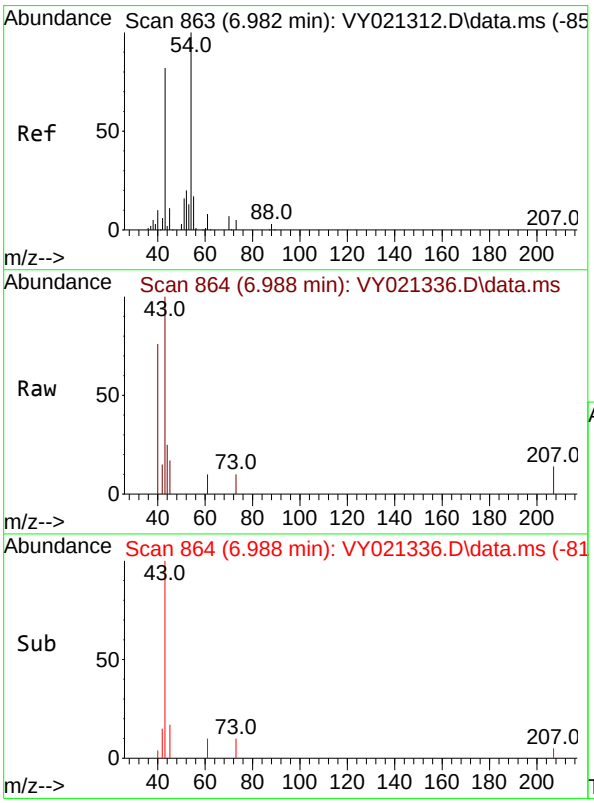


#35
Dibromofluoromethane
Concen: 50.340 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion:113 Resp: 128943

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.6
192	19.8	15.8	23.8

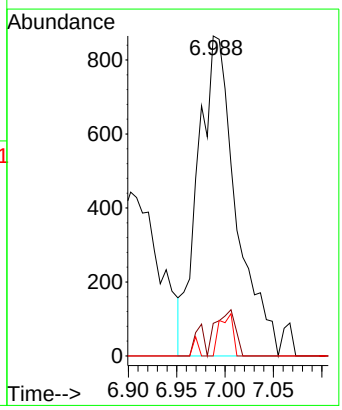


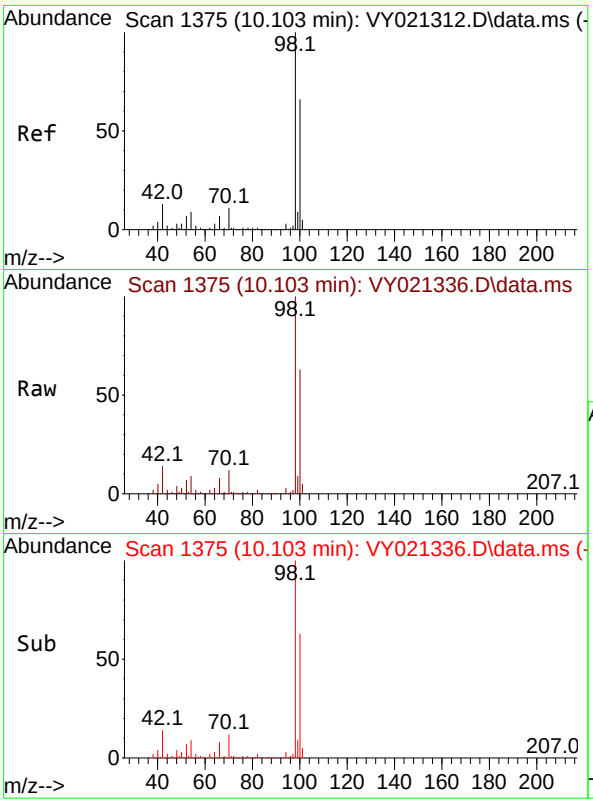


#37
Ethyl Acetate
Concen: 1.235 ug/l
RT: 6.988 min Scan# 864
Delta R.T. 0.006 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 43 Resp: 2363

Ion	Ratio	Lower	Upper
43	100		
61	7.4	10.4	15.6#
70	4.7	7.5	11.3#



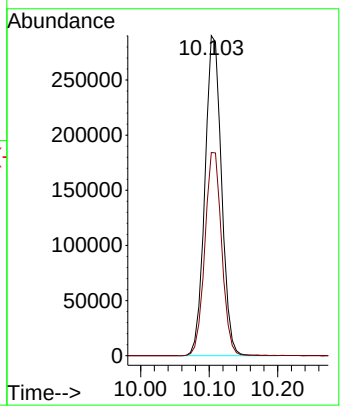


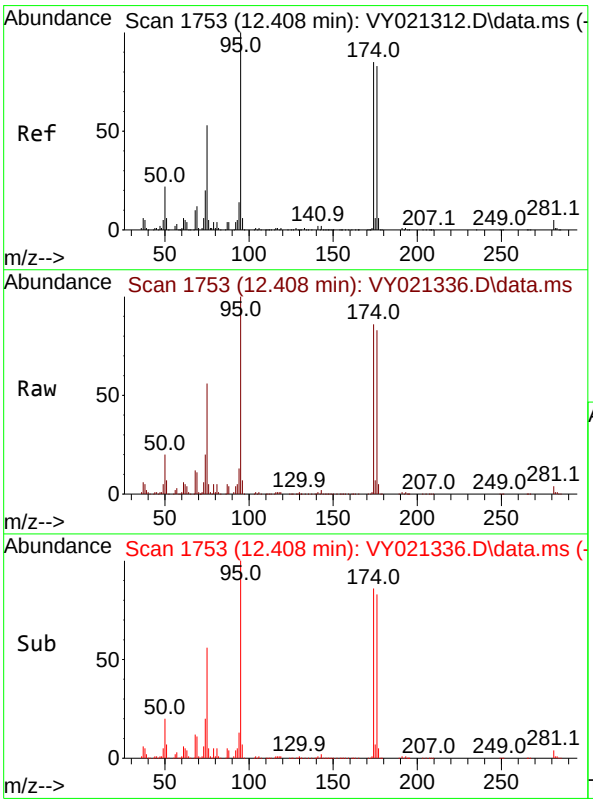
#50
Toluene-d8
Concen: 49.456 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion: 98 Resp: 489572

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.4	78.6

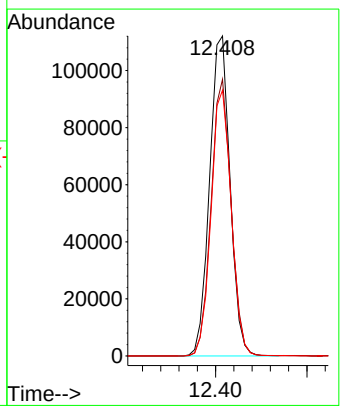


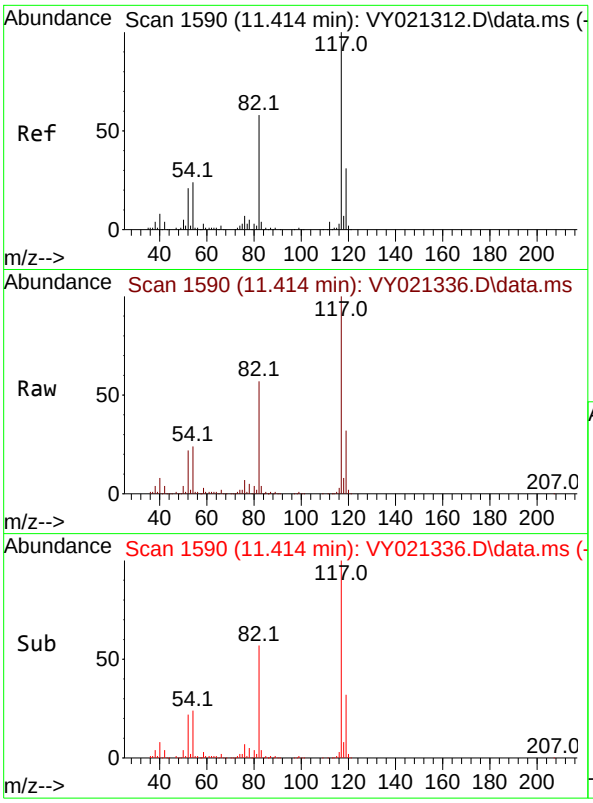


#62
4-Bromofluorobenzene
Concen: 52.204 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion: 95 Resp: 173918

Ion	Ratio	Lower	Upper
95	100		
174	84.4	0.0	168.0
176	82.3	0.0	162.6



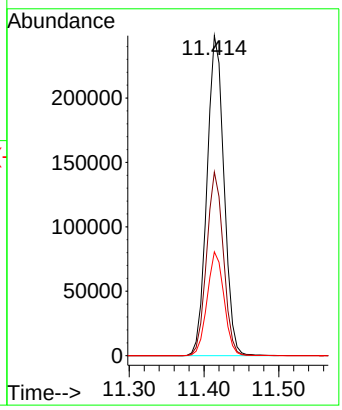


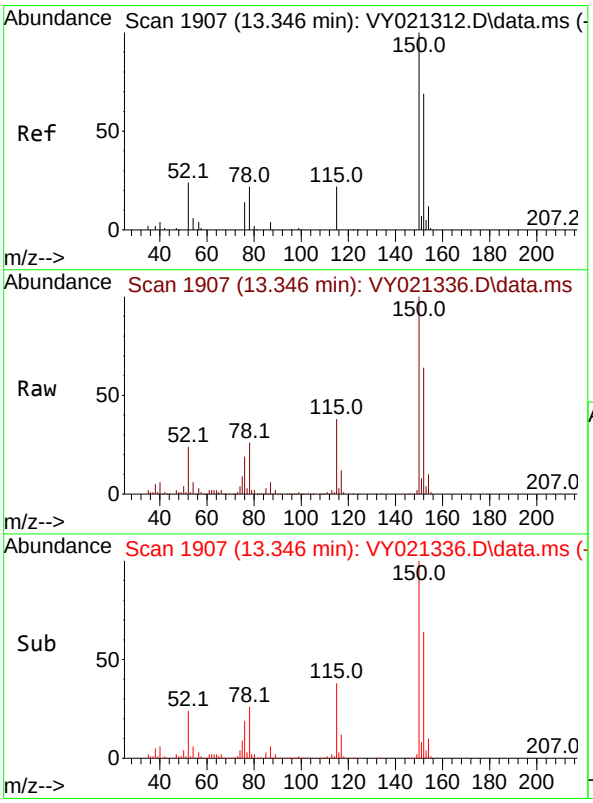
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Tgt Ion:117 Resp: 393465

Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.2	69.4
119	32.5	24.9	37.3

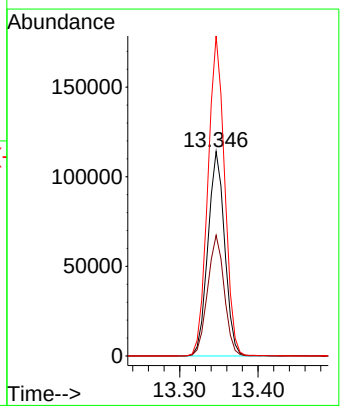




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021336.D
Acq: 26 Feb 2025 17:01

Tgt Ion:152 Resp: 168735

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.3	88.0
150	156.7	0.0	347.4



Sample Results: **VY021336.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021336.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.330	252	264	281	rBV	35198	119874	1.14%	0.683%
2	7.634	960	970	976	rBV	186272	439695	4.20%	2.505%
3	7.707	976	982	996	rVB	267458	599616	5.72%	3.416%
4	8.061	1030	1040	1053	rBV	157246	346867	3.31%	1.976%
5	8.616	1118	1131	1142	rBV	470699	936679	8.94%	5.336%
6	10.103	1367	1375	1391	rBV	780448	1333630	12.73%	7.597%
7	10.493	1432	1439	1459	rBV	6818516	10478159	100.00%	59.688%
8	11.414	1582	1590	1604	rBV	797816	1263307	12.06%	7.196%
9	12.408	1744	1753	1764	rVB	611973	975196	9.31%	5.555%
10	13.346	1900	1907	1916	rVB	712432	1061955	10.13%	6.049%

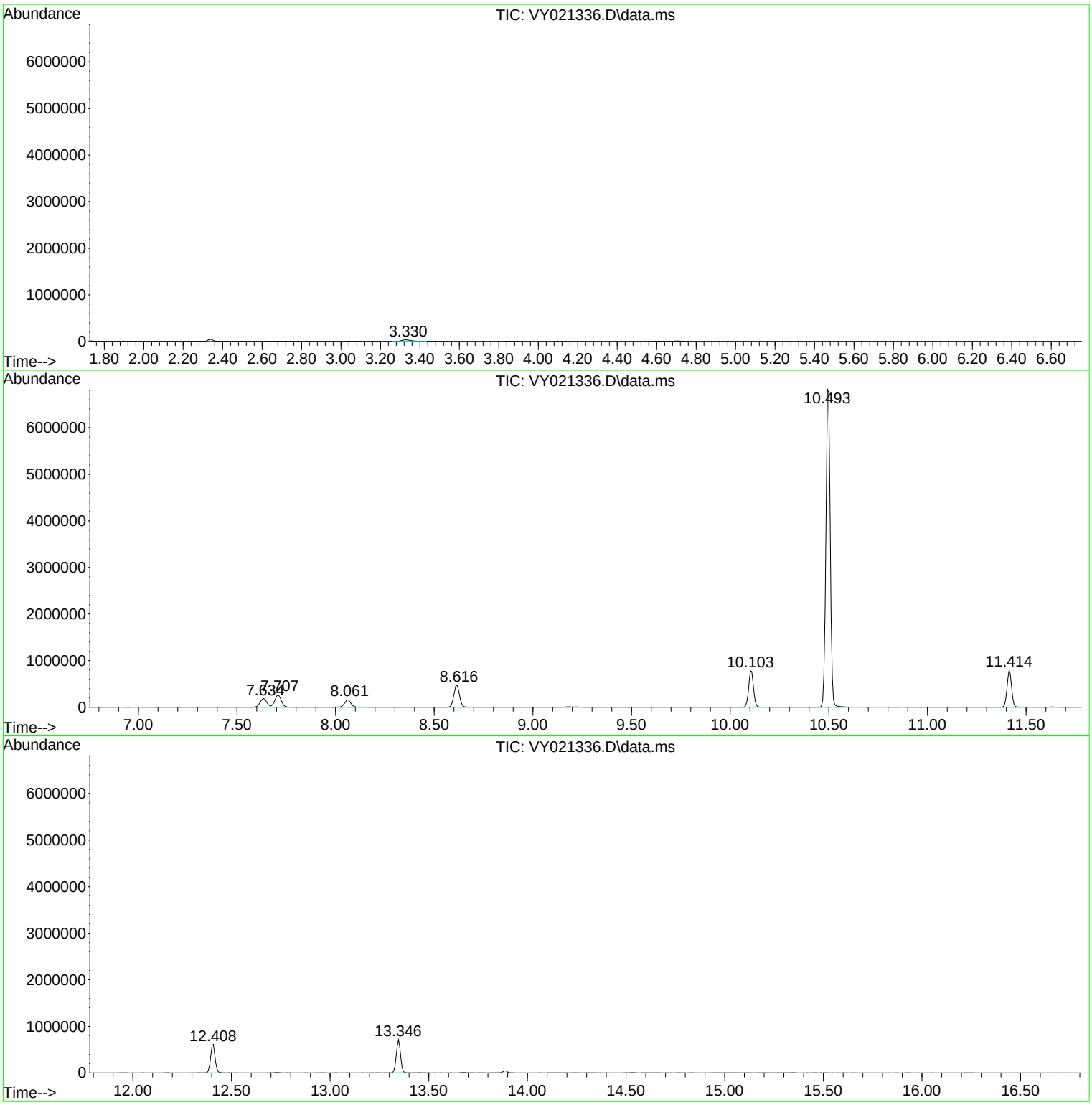
Sum of corrected areas: 17554978

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

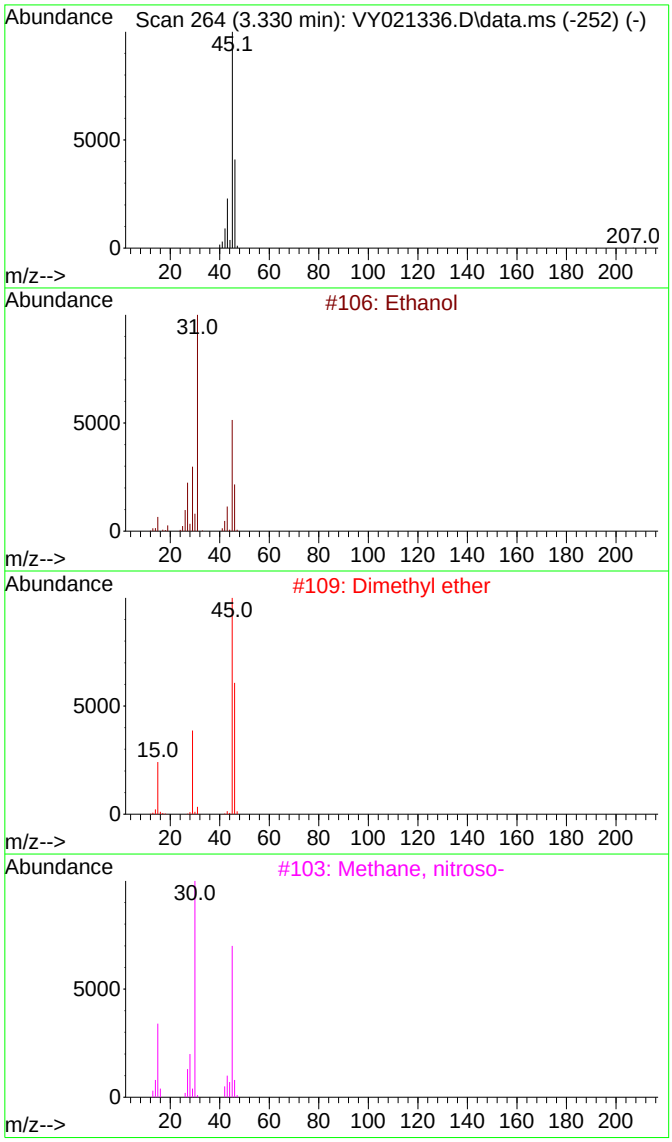
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

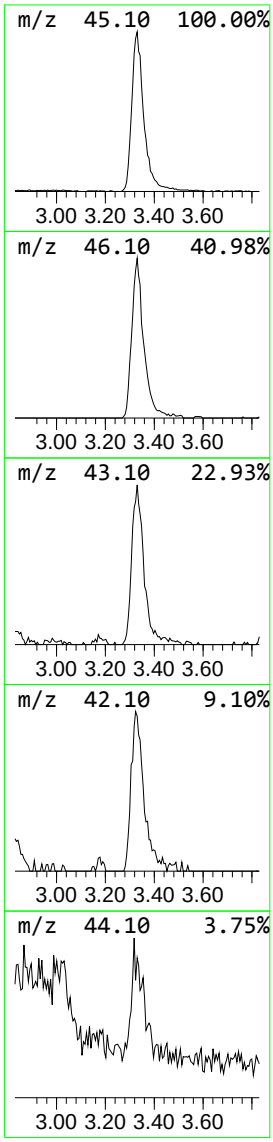
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Ethanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.330	10.00 ug/l	119874	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol	46	C2H6O	000064-17-5	74
2	Dimethyl ether	46	C2H6O	000115-10-6	9
3	Methane, nitroso-	45	CH3NO	000865-40-7	4
4	Formic acid	46	CH2O2	000064-18-6	4
5	Oxalic acid	90	C2H2O4	000144-62-7	4





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

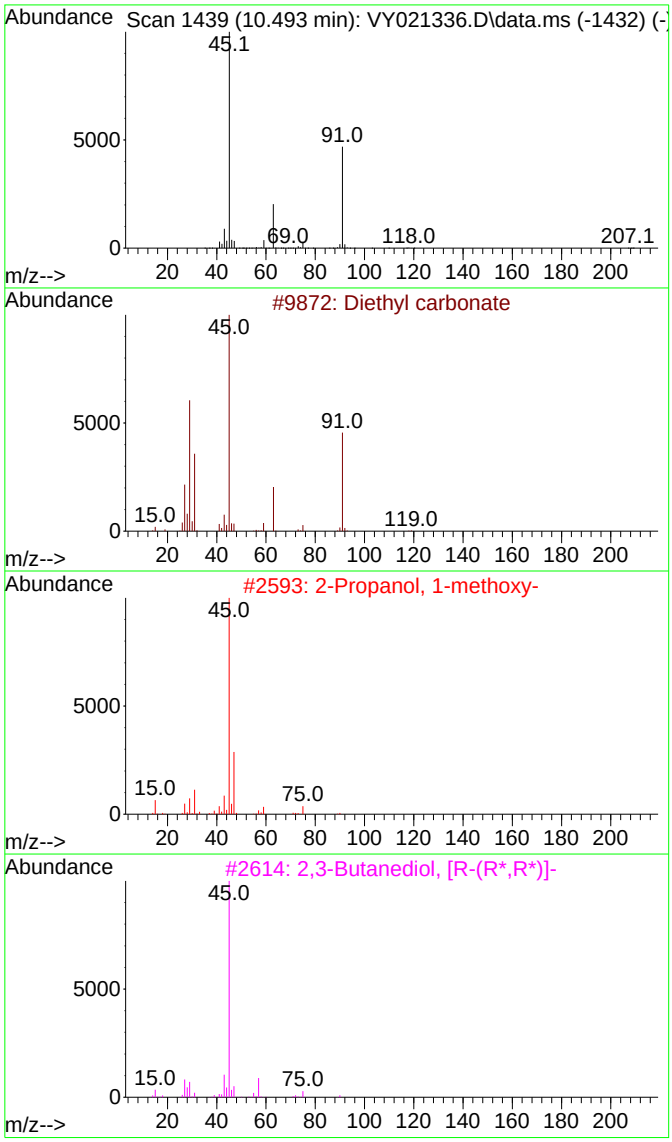
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

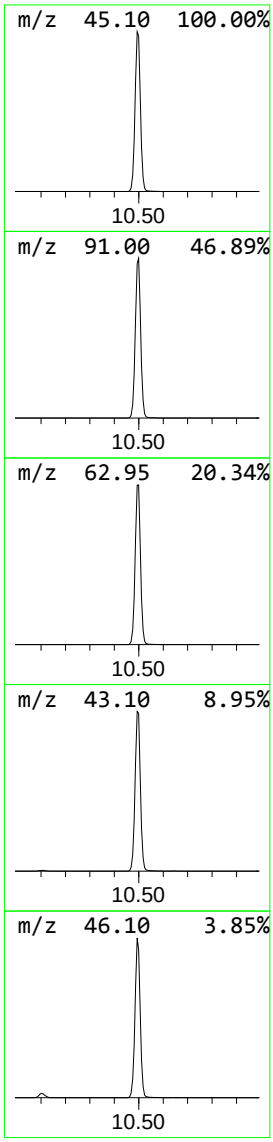
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.493	414.71 ug/l	10478200	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	83
2	2-Propanol, 1-methoxy-	90	C4H10O2	000107-98-2	36
3	2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	9
4	2,3-Butanediol	90	C4H10O2	000513-85-9	9
5	Butane, 1-methoxy-	88	C5H12O	000628-28-4	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021336.D
Acq On : 26 Feb 2025 17:01
Operator : SY/MD
Sample : Q1415-01
Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Ethanol	3.330	10.0	ug/l	119874	1	7.707	599616	50.0
Diethyl carbonate	10.493	414.7	ug/l	10478200	3	11.414	1263310	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Time: Feb 27 00:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

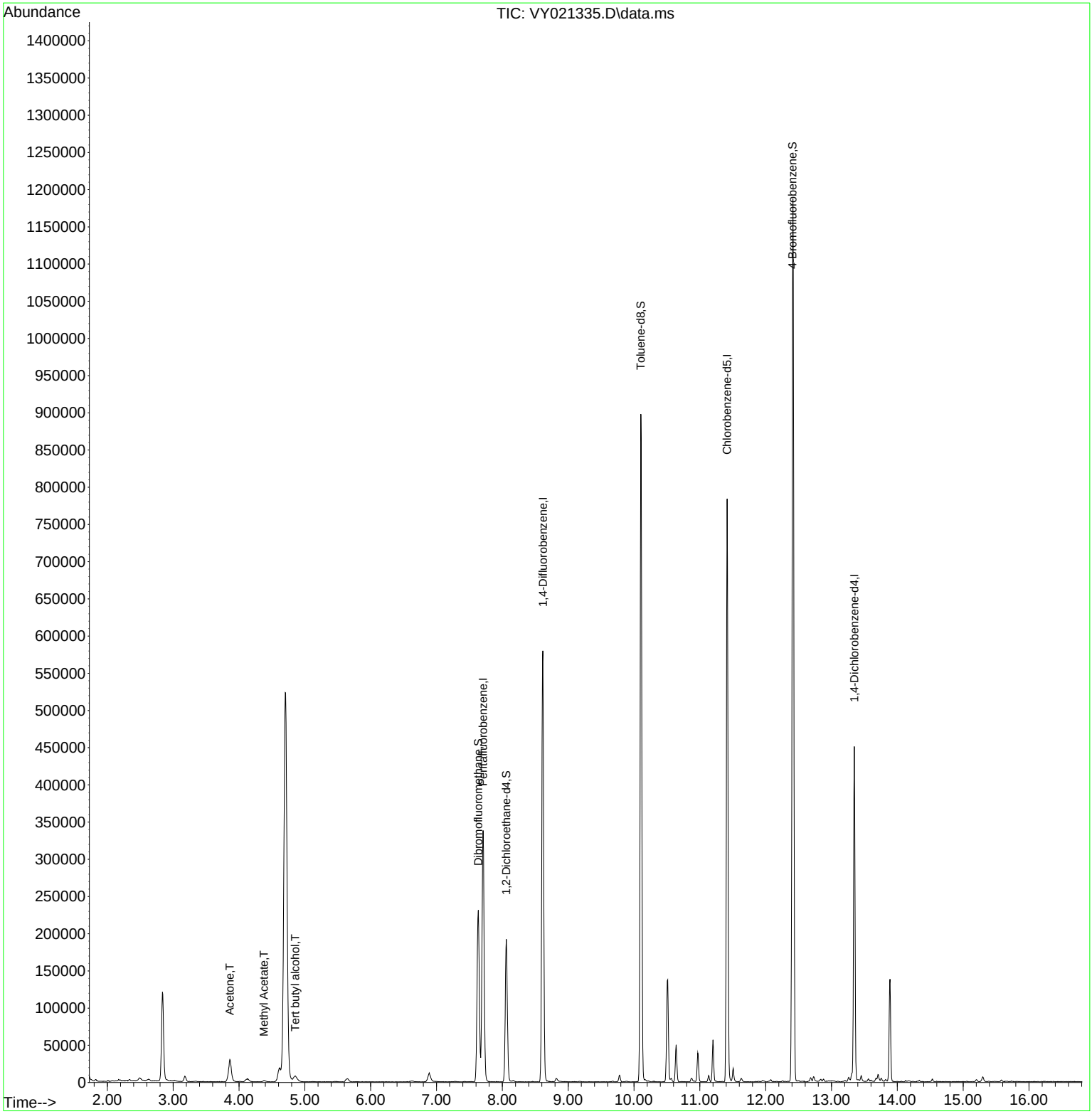
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	249275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	482876	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	393781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	105850	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151894	53.714	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.420%			
35) Dibromofluoromethane	7.634	113	161939	51.153	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.300%			
50) Toluene-d8	10.103	98	564176	46.112	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.220%			
62) 4-Bromofluorobenzene	12.408	95	145923	35.439	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.880%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	14036	64.530	ug/l	100
16) Acetone	3.860	43	40345	74.377	ug/l	94
18) Methyl Acetate	4.379	43	3594	2.711	ug/l	94

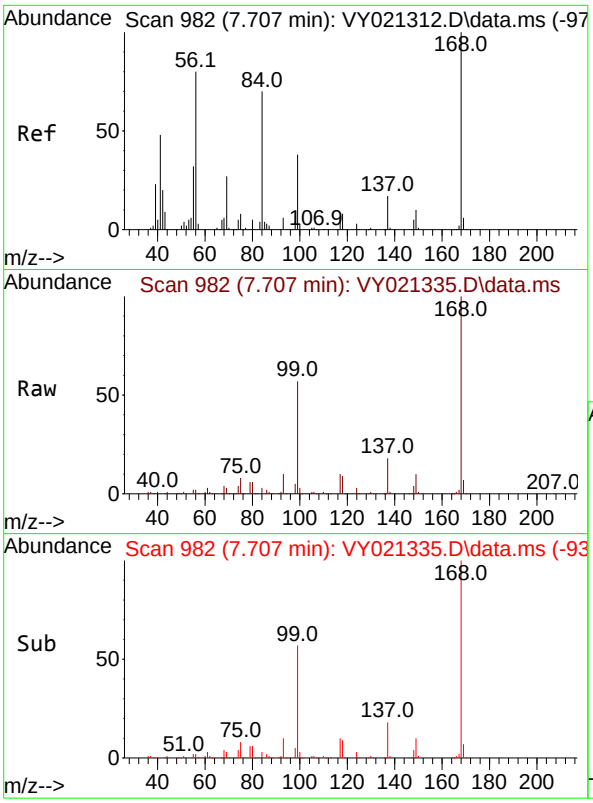
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Time: Feb 27 00:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



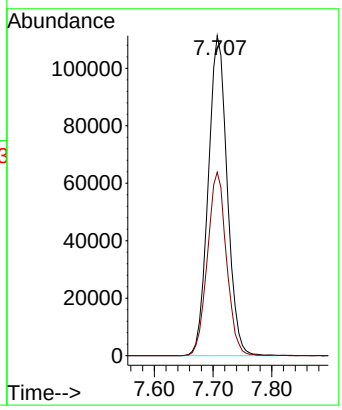


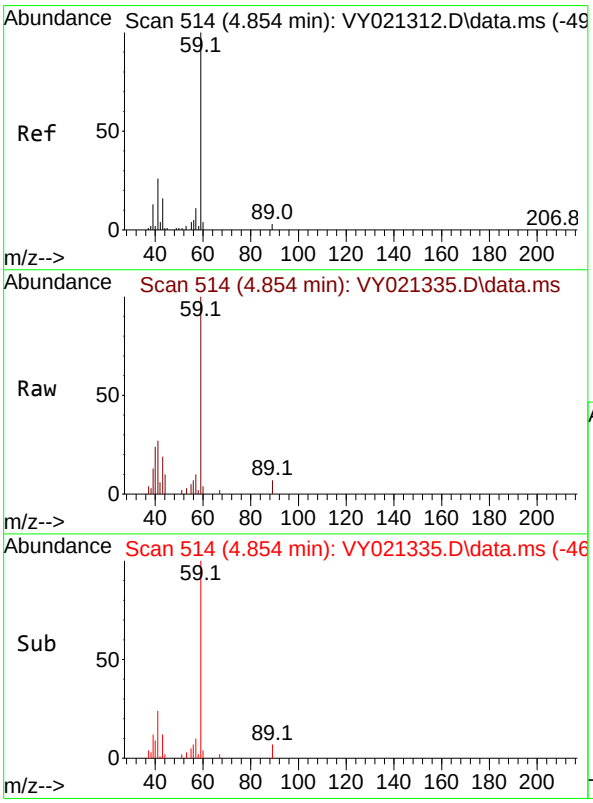
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion:168 Resp: 249275

Ion	Ratio	Lower	Upper
168	100		
99	57.4	47.1	70.7

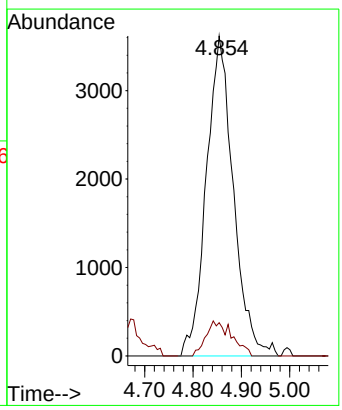


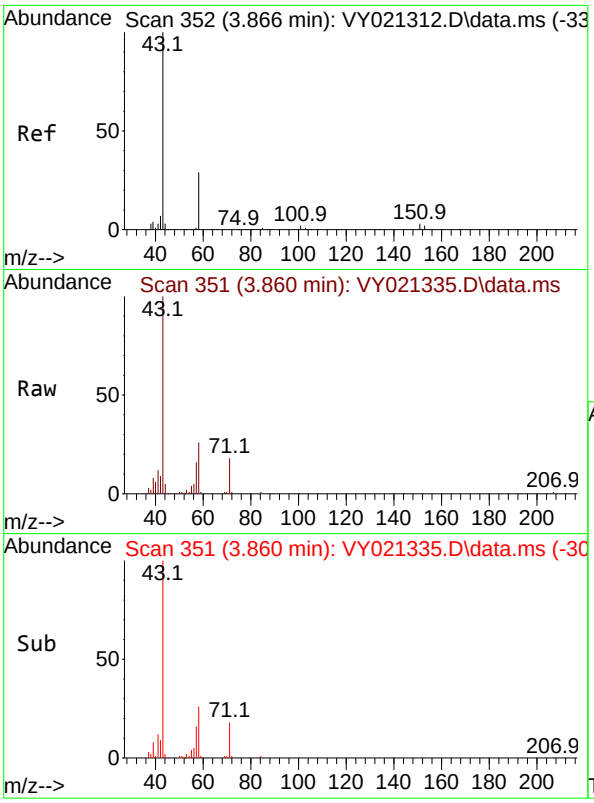


#11
Tert butyl alcohol
Concen: 64.530 ug/l
RT: 4.854 min Scan# 514
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 59 Resp: 14036

Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5



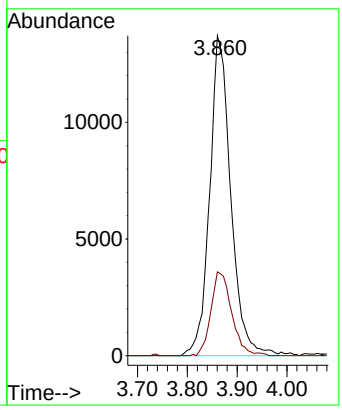


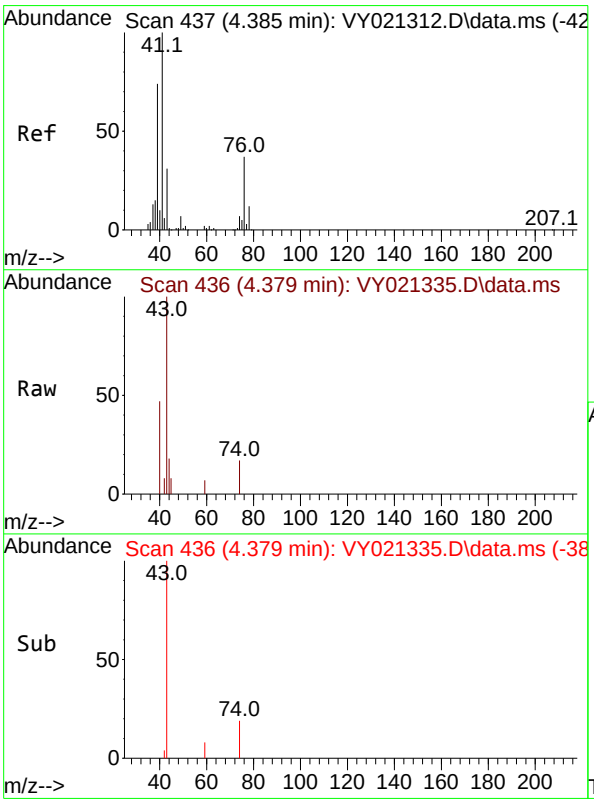
#16
Acetone
Concen: 74.377 ug/l
RT: 3.860 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion: 43 Resp: 40345

Ion	Ratio	Lower	Upper
43	100		
58	26.2	23.5	35.3

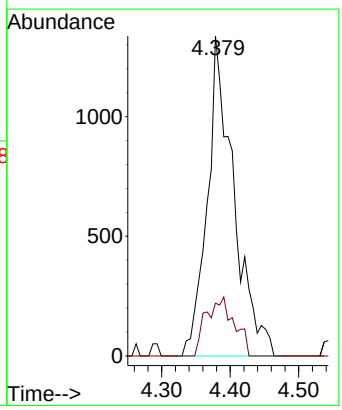


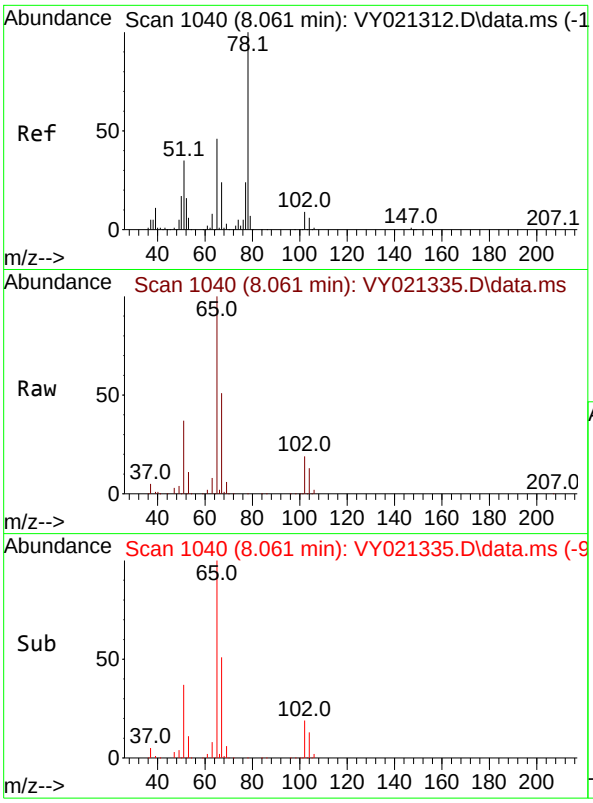


#18
Methyl Acetate
Concen: 2.711 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 43 Resp: 3594

Ion	Ratio	Lower	Upper
43	100		
74	19.4	17.7	26.5



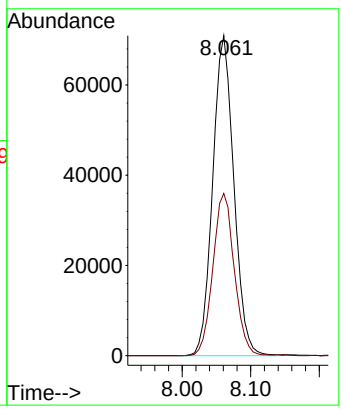


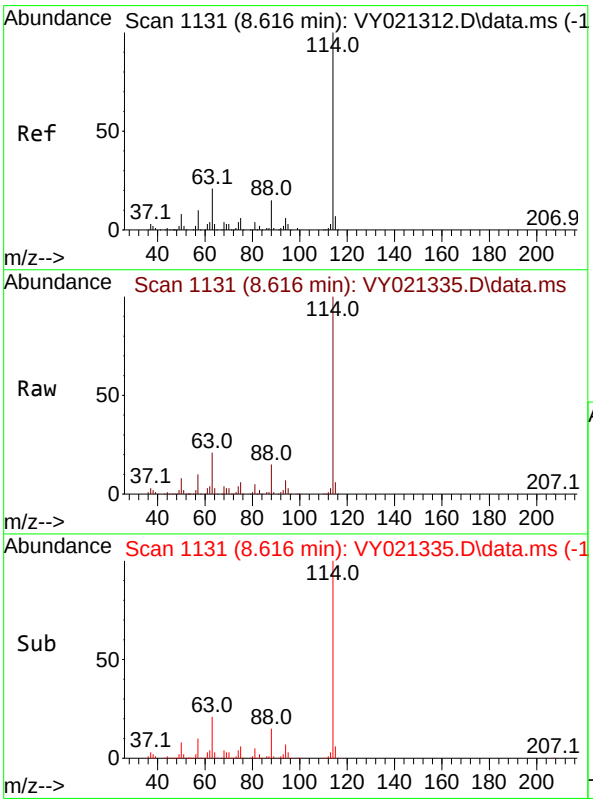
#33
1,2-Dichloroethane-d4
Concen: 53.714 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion: 65 Resp: 151894

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.6

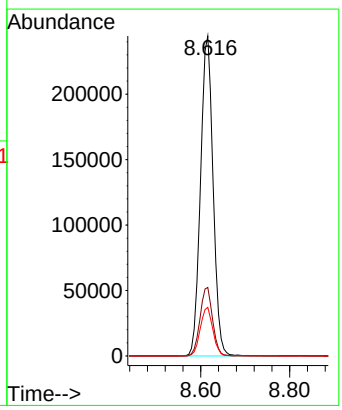




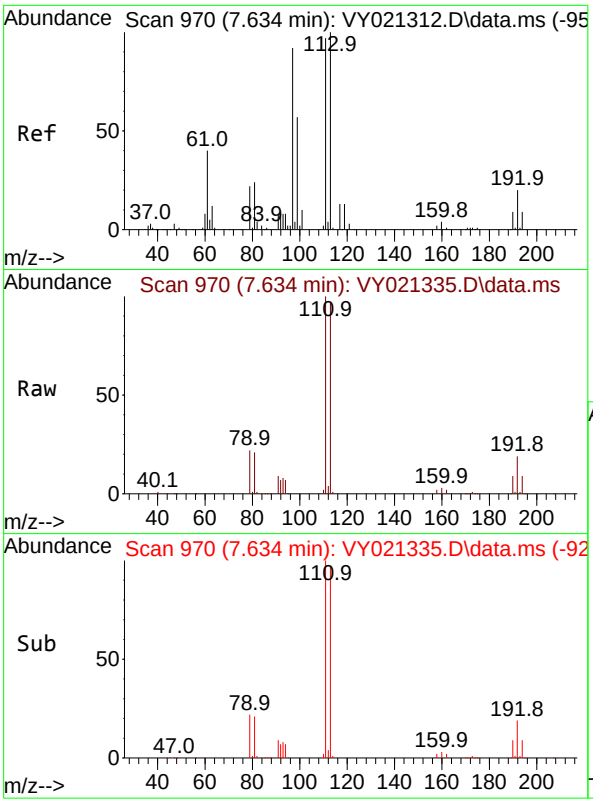
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion:114 Resp: 482876

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.2
88	15.2	0.0	29.8



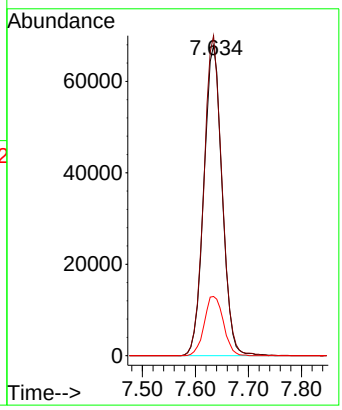
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

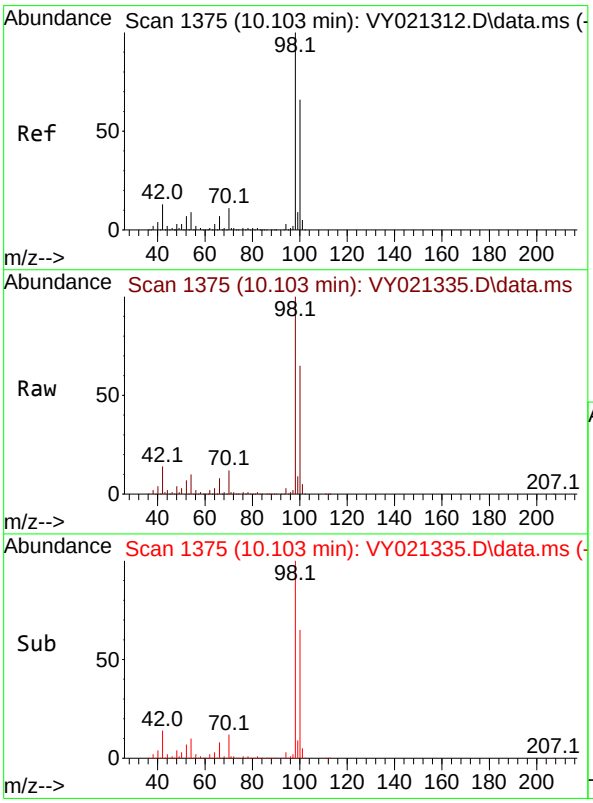


#35
Dibromofluoromethane
Concen: 51.153 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion:113 Resp: 161939

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.0	121.6
192	20.1	15.8	23.8

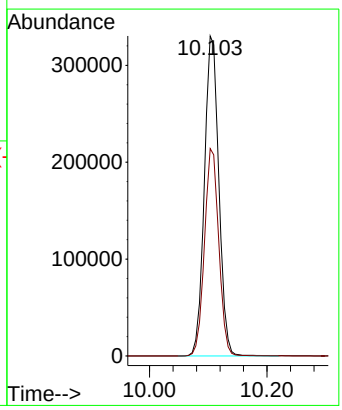


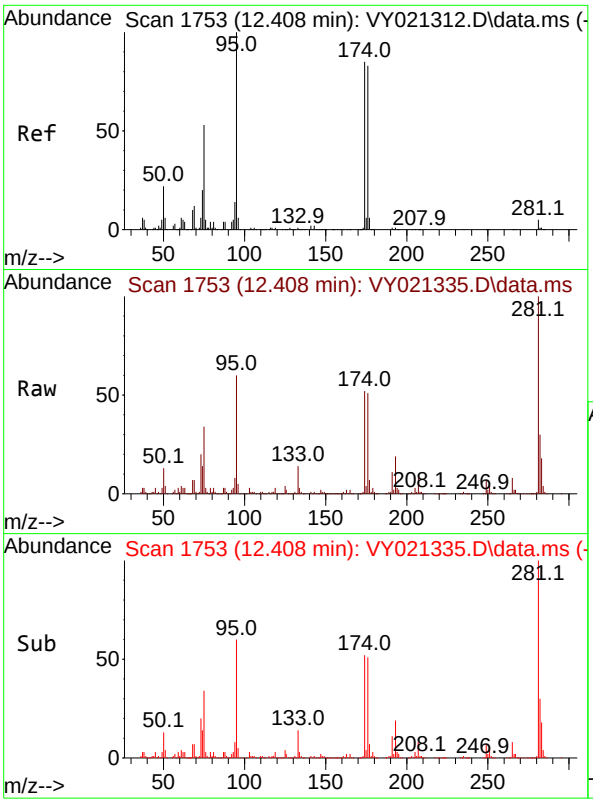


#50
Toluene-d8
Concen: 46.112 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion: 98 Resp: 564176

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.4	78.6



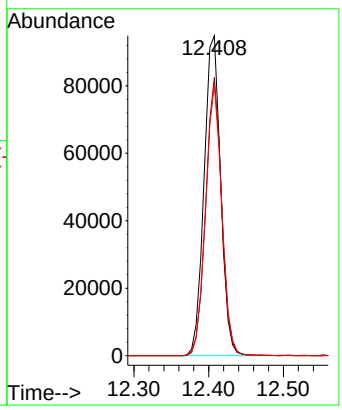


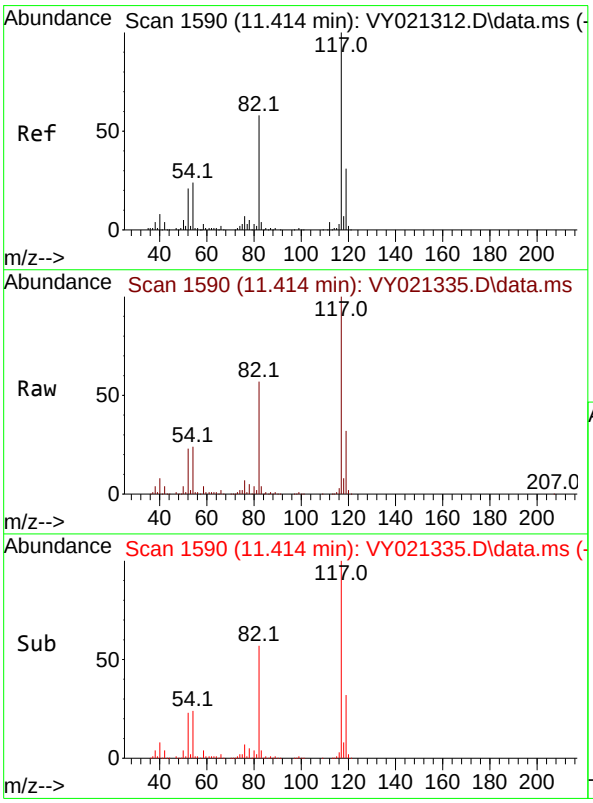
#62
4-Bromofluorobenzene
Concen: 35.439 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion: 95 Resp: 145923

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	168.0
176	83.0	0.0	162.6

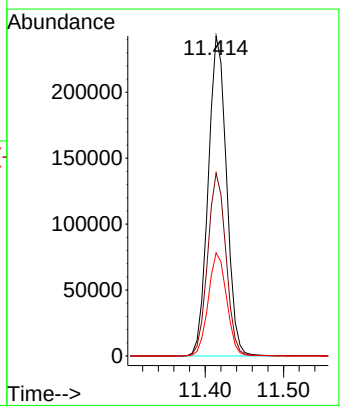


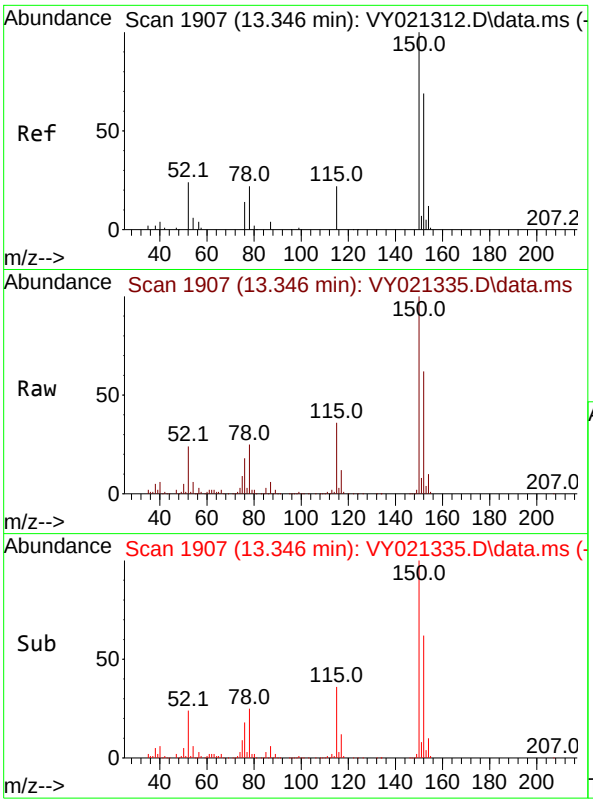


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Tgt Ion:117 Resp: 393781

Ion	Ratio	Lower	Upper
117	100		
82	57.1	46.2	69.4
119	32.3	24.9	37.3



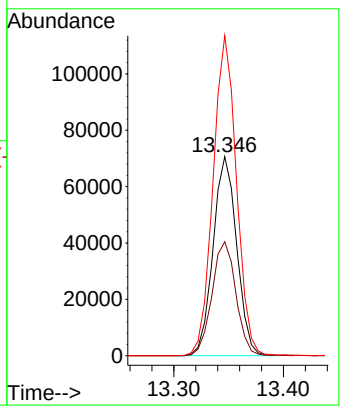


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021335.D
Acq: 26 Feb 2025 16:37

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Tgt Ion:152 Resp: 105850

Ion	Ratio	Lower	Upper
152	100		
115	57.9	29.3	88.0
150	159.3	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021335.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.836	174	183	194	rBV	119277	261692	11.74%	2.263%
2	3.860	339	351	367	rBV3	29716	90674	4.07%	0.784%
3	4.610	463	474	477	rBV4	18421	48701	2.18%	0.421%
4	4.702	478	489	507	rVV	522947	1773885	79.58%	15.338%
5	4.854	507	514	530	rVB3	7818	31167	1.40%	0.269%
6	6.890	838	848	859	rBV2	12071	35528	1.59%	0.307%
7	7.634	958	970	976	rBV	230749	555702	24.93%	4.805%
8	7.707	976	982	995	rVB	337484	754826	33.86%	6.527%
9	8.061	1030	1040	1052	rBV	191538	421580	18.91%	3.645%
10	8.616	1122	1131	1141	rBV	579095	1155210	51.83%	9.989%
11	10.103	1367	1375	1384	rBV	897141	1526131	68.47%	13.196%
12	10.512	1433	1442	1448	rBV	137113	260251	11.68%	2.250%
13	10.640	1456	1463	1470	rVB	49716	78860	3.54%	0.682%
14	10.969	1511	1517	1526	rVB	38983	62842	2.82%	0.543%
15	11.200	1549	1555	1561	rBV	56263	83241	3.73%	0.720%
16	11.414	1582	1590	1601	rBV	783401	1272890	57.11%	11.006%
17	11.505	1601	1605	1615	rVB	18108	28522	1.28%	0.247%
18	12.414	1744	1754	1764	rBV2	1186429	2229010	100.00%	19.273%
19	13.346	1901	1907	1915	rVB	447825	673192	30.20%	5.821%
20	13.889	1989	1996	2003	rVB2	137410	221476	9.94%	1.915%

Sum of corrected areas: 11565380

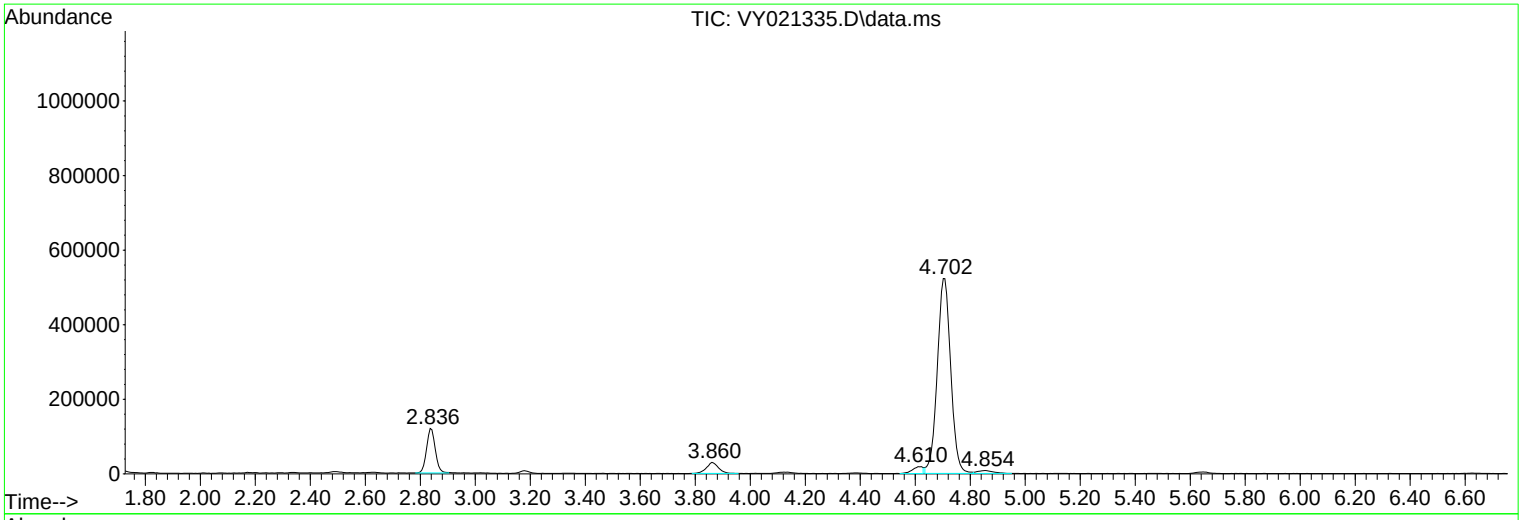
Sample Results: **VY021335.D**

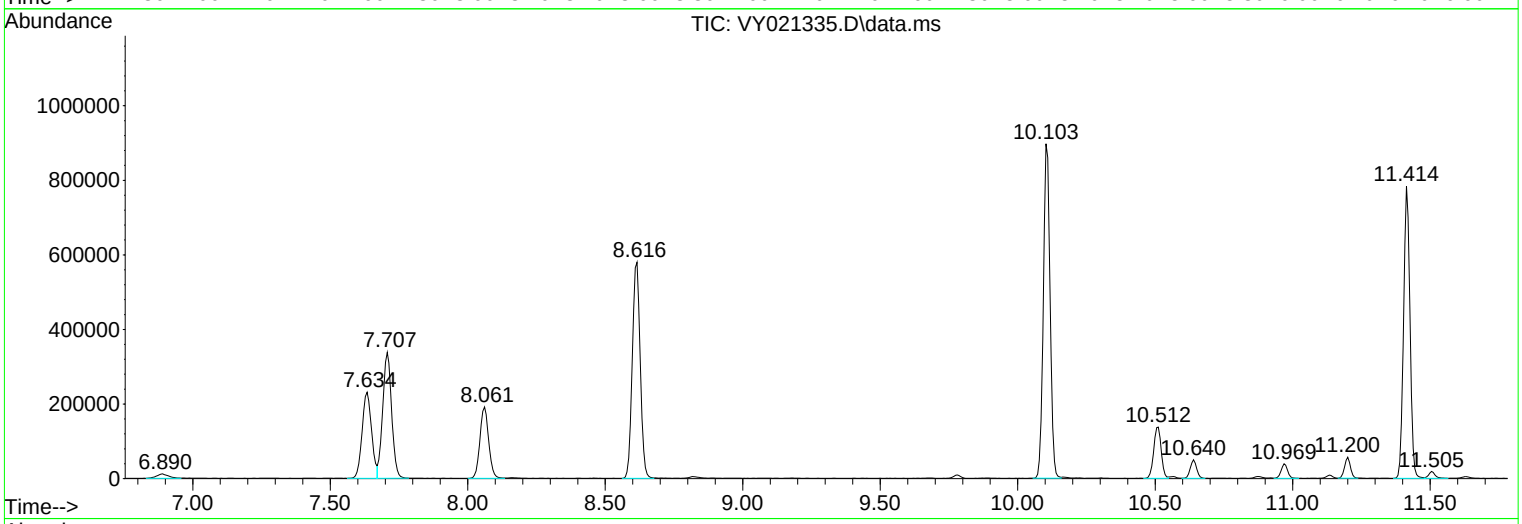
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

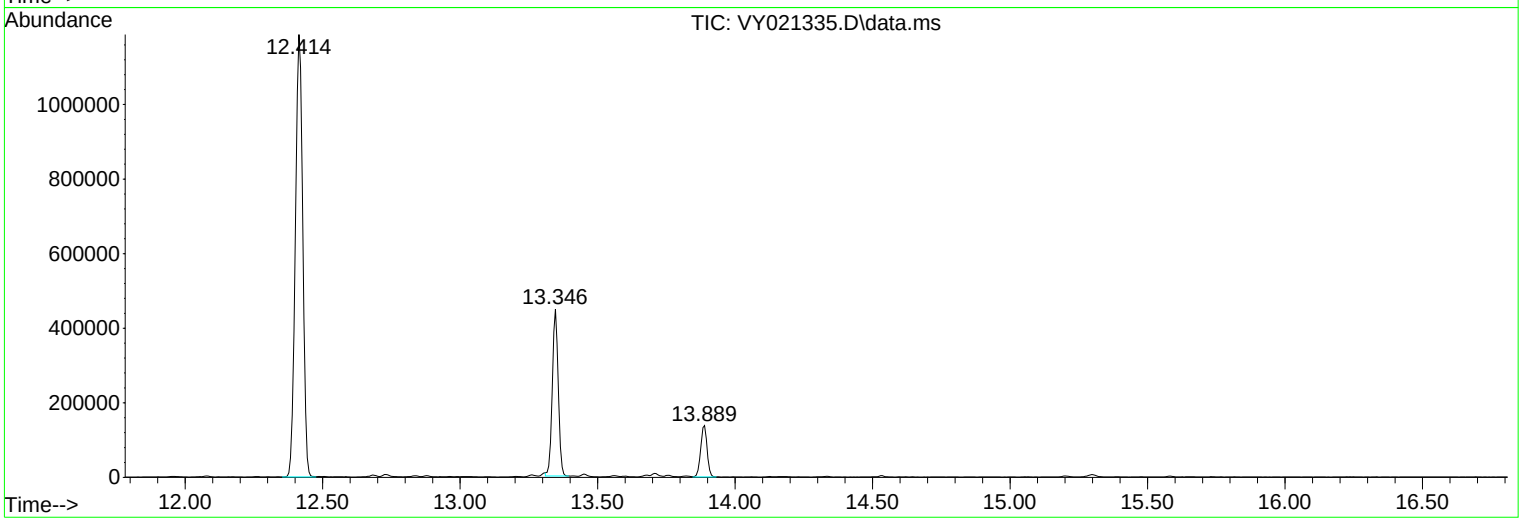
Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

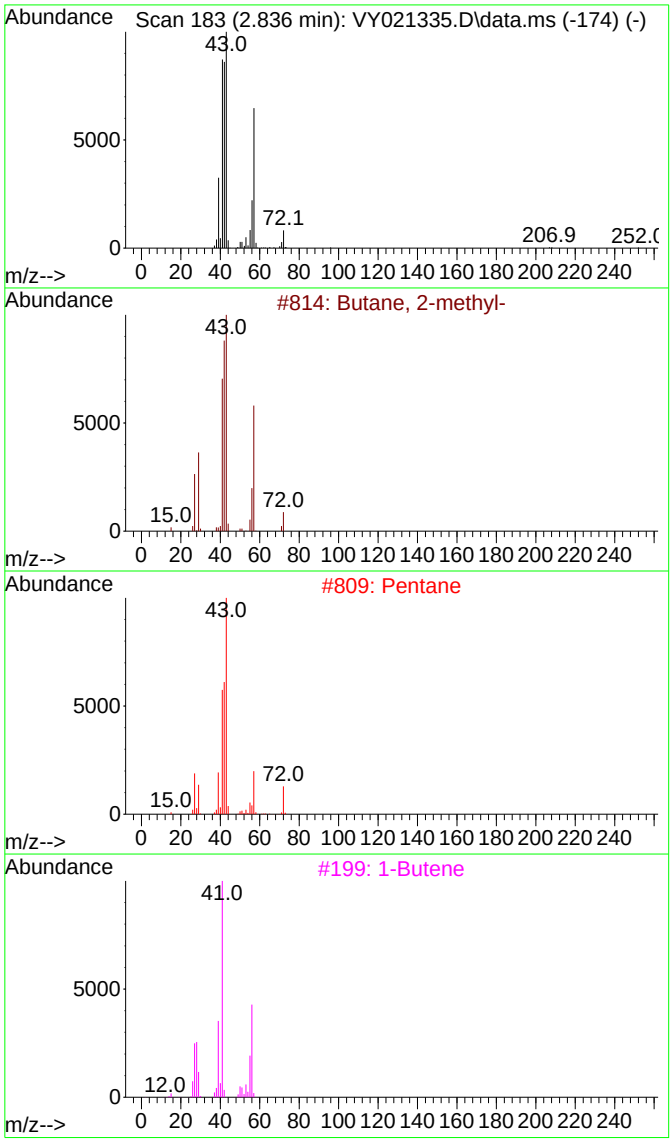
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

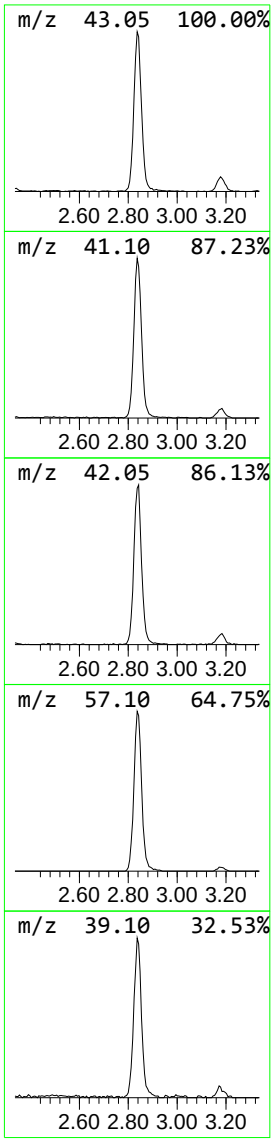
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.836	17.33 ug/l	261692	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	90
2	Pentane	72	C5H12	000109-66-0	42
3	1-Butene	56	C4H8	000106-98-9	14
4	Butane, 1-isocyano-	83	C5H9N	002769-64-4	12
5	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	12





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

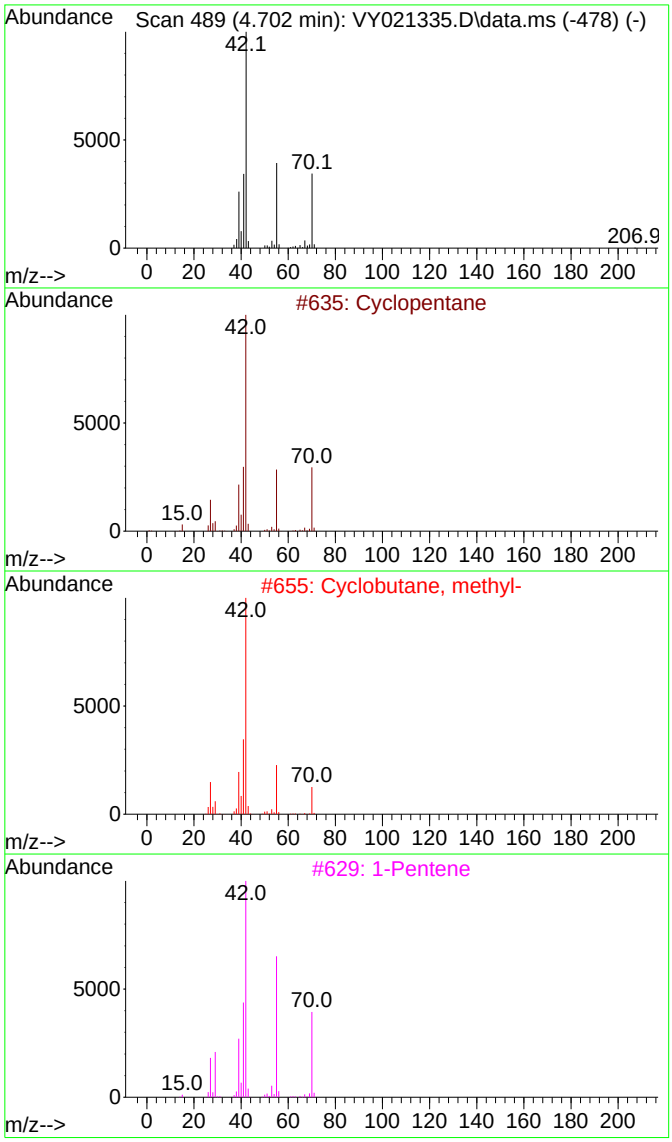
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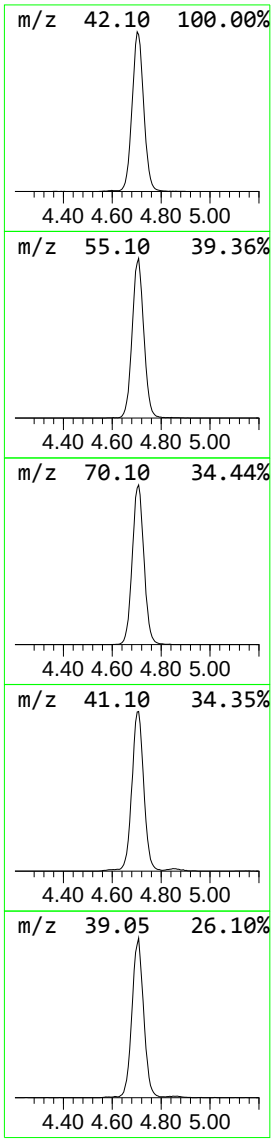
****

Peak Number 2 Cyclopentane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.702	117.50 ug/l	1773890	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	90
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	86
3	1-Pentene	70	C5H10	000109-67-1	49
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	9
5	Cyclobutanone	70	C4H6O	001191-95-3	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021335.D
Acq On : 26 Feb 2025 16:37
Operator : SY/MD
Sample : Q1415-02
Misc : 6.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methyl-	2.836	17.3	ug/l	261692	1	7.707	754826	50.0
Cyclopentane	4.702	117.5	ug/l	1773890	1	7.707	754826	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Time: Feb 27 00:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

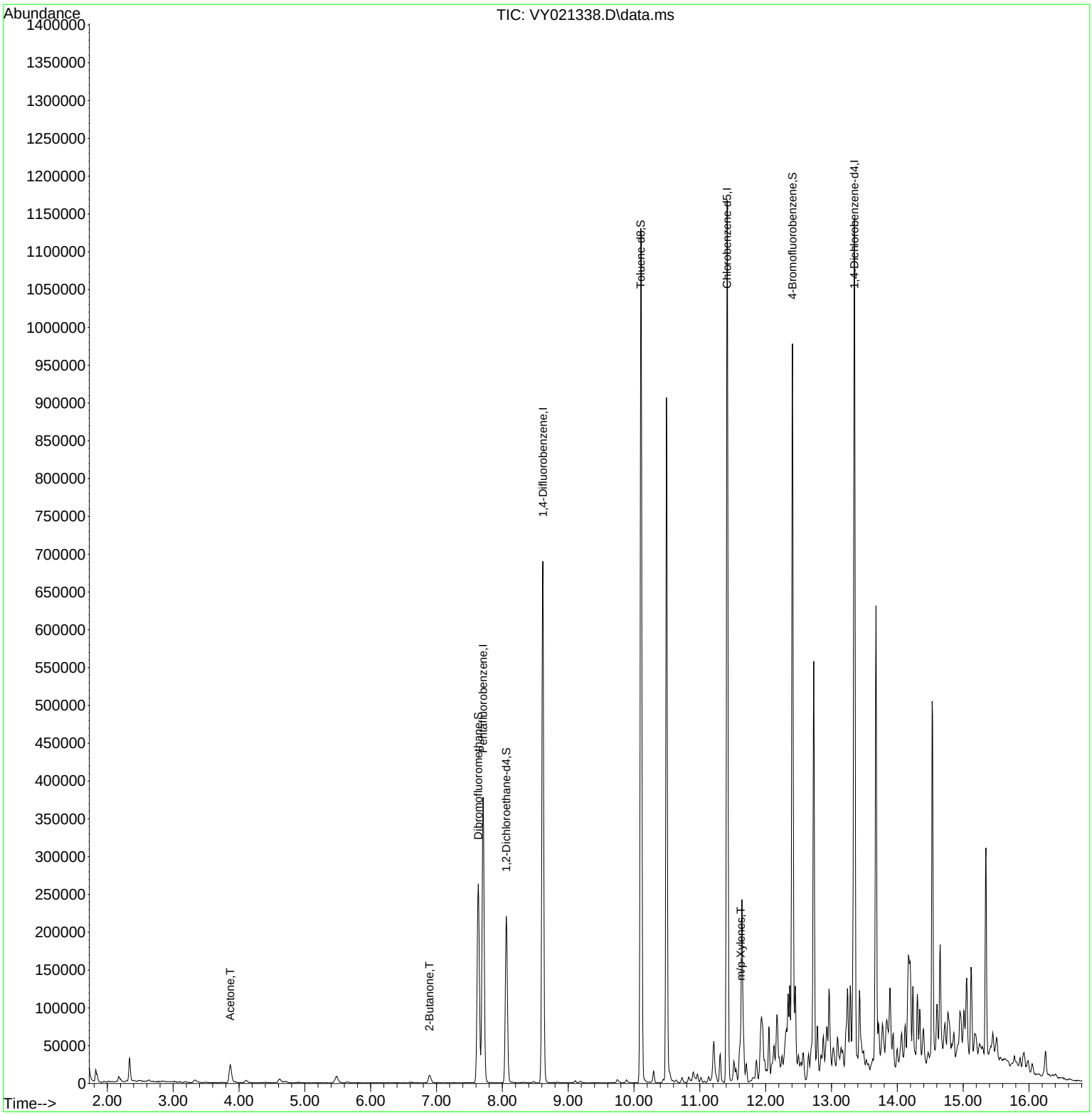
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	278202	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	557389	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	583706	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	249107	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	174903	55.420	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.840%			
35) Dibromofluoromethane	7.634	113	184126	50.386	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.780%			
50) Toluene-d8	10.103	98	709070	50.207	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.420%			
62) 4-Bromofluorobenzene	12.408	95	267792	56.342	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 112.680%			
Target Compounds						Qvalue
16) Acetone	3.866	43	41560	68.650	ug/l	98
25) 2-Butanone	6.890	43	17344	18.983	ug/l	97
68) m/p-Xylenes	11.621	106	10321	1.182	ug/l	98

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

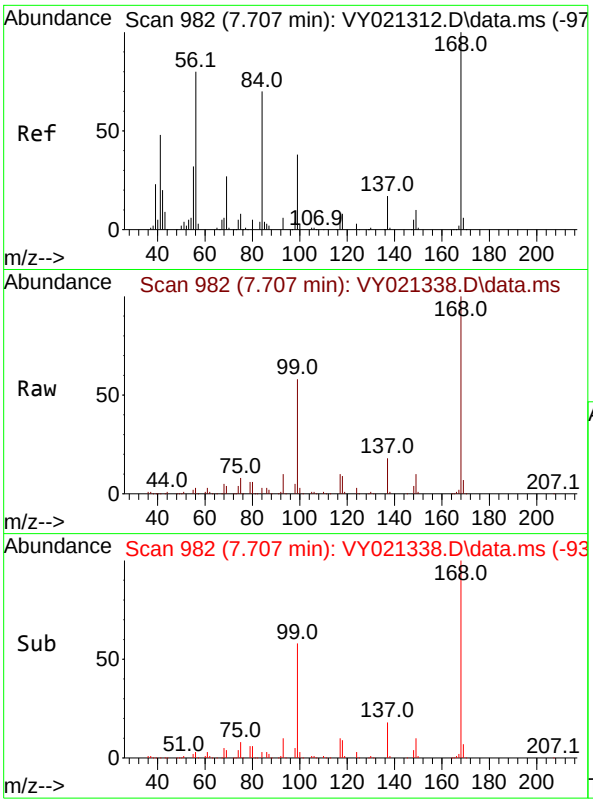
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Time: Feb 27 00:40:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



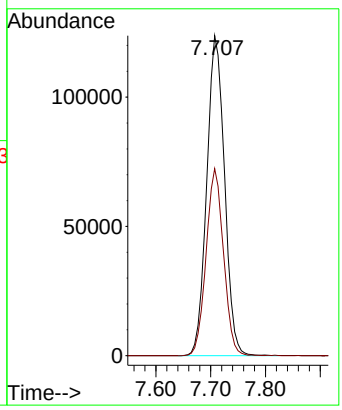
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

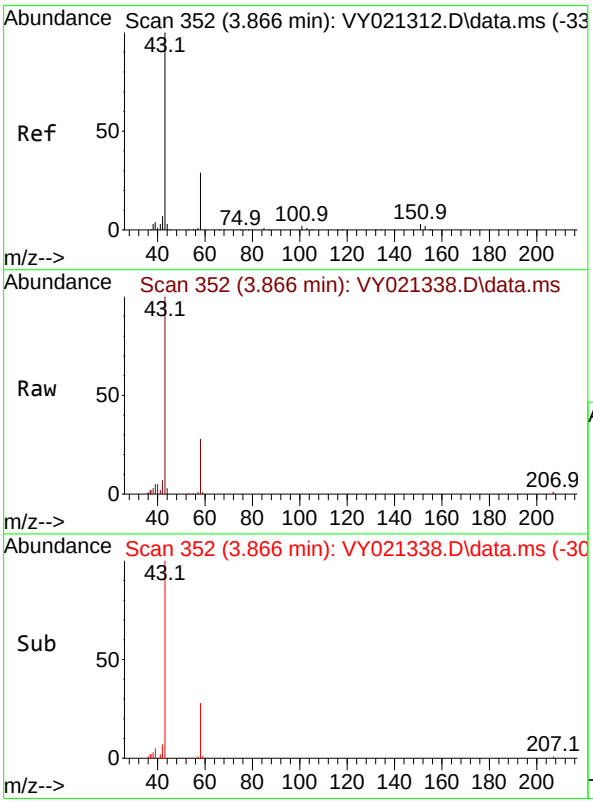


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion:168 Resp: 278202

Ion	Ratio	Lower	Upper
168	100		
99	58.4	47.1	70.7

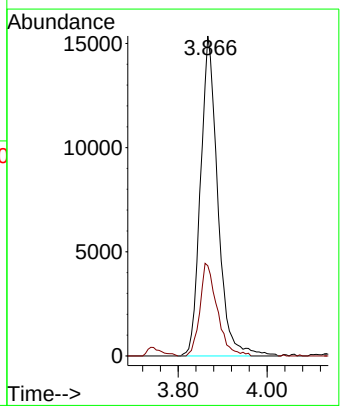


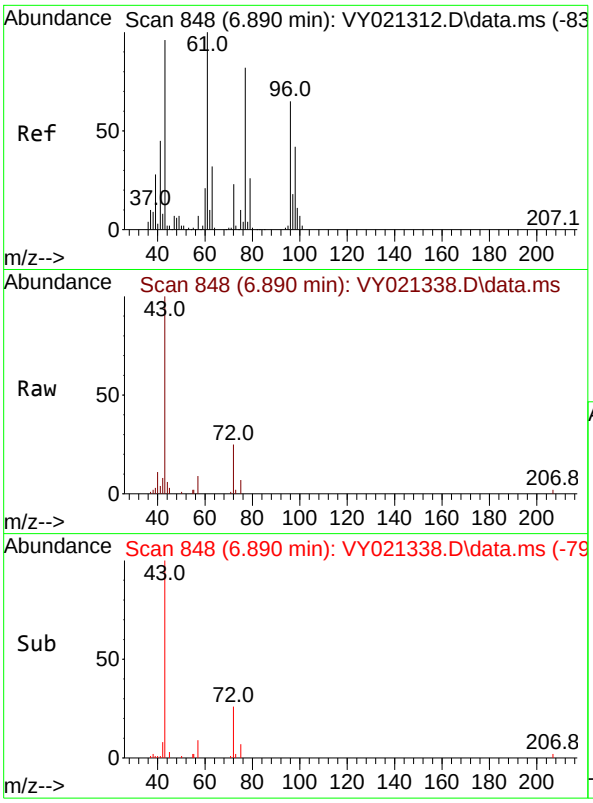


#16
Acetone
Concen: 68.650 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 43 Resp: 41560

Ion	Ratio	Lower	Upper
43	100		
58	28.2	23.5	35.3



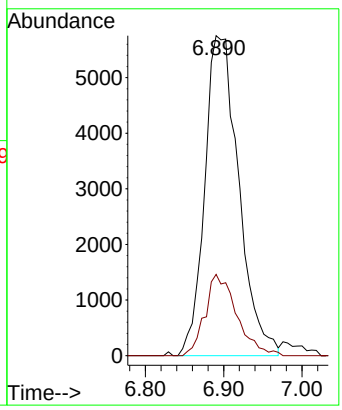


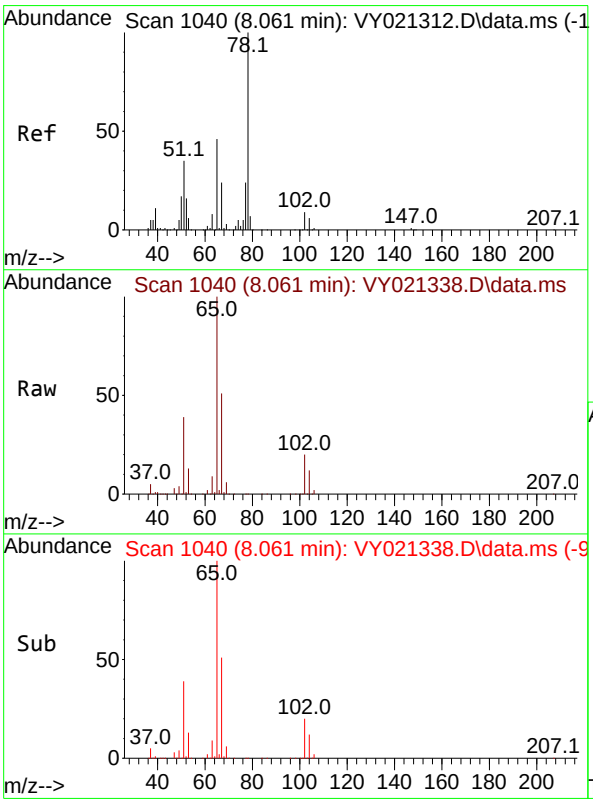
#25
2-Butanone
Concen: 18.983 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion: 43 Resp: 17344

Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.0	28.6

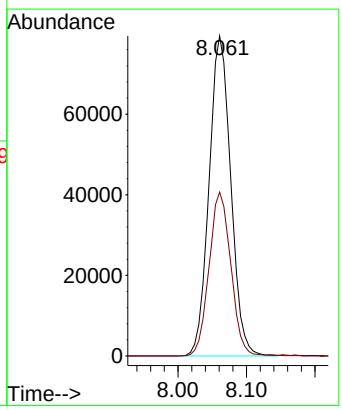


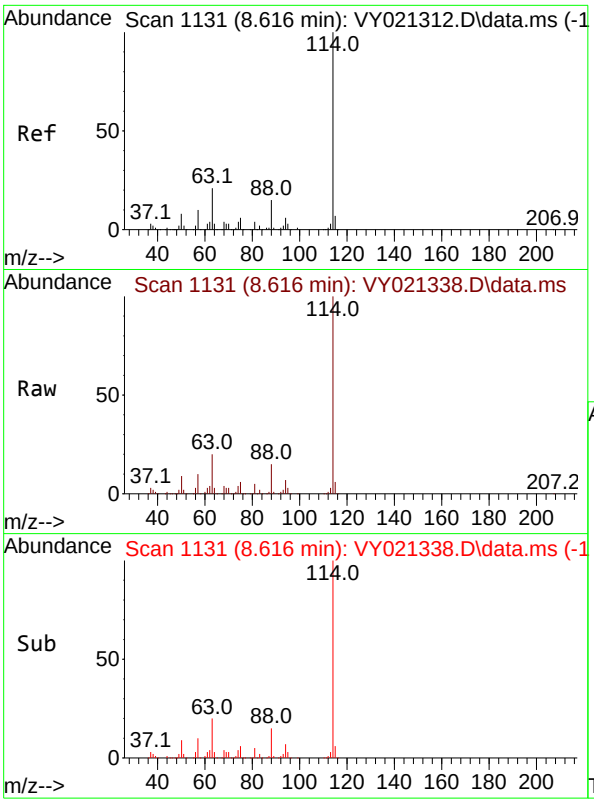


#33
1,2-Dichloroethane-d4
Concen: 55.420 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 65 Resp: 174903

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.6



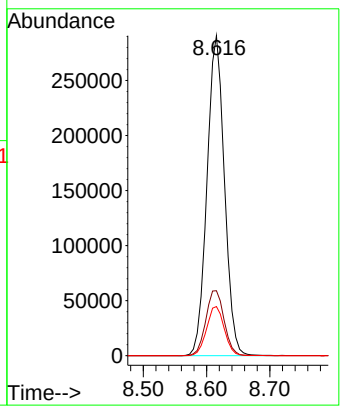


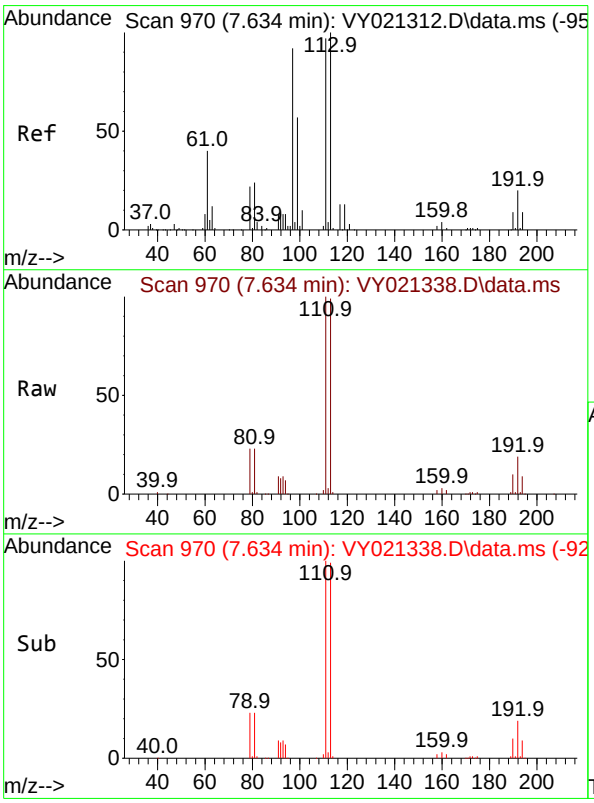
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion:114 Resp: 557389

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.2
88	15.3	0.0	29.8

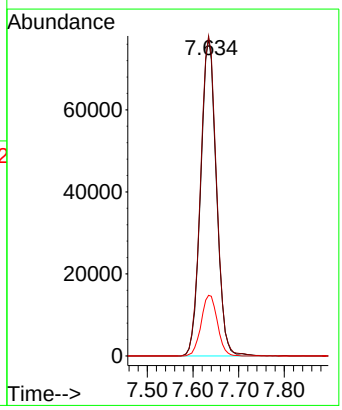


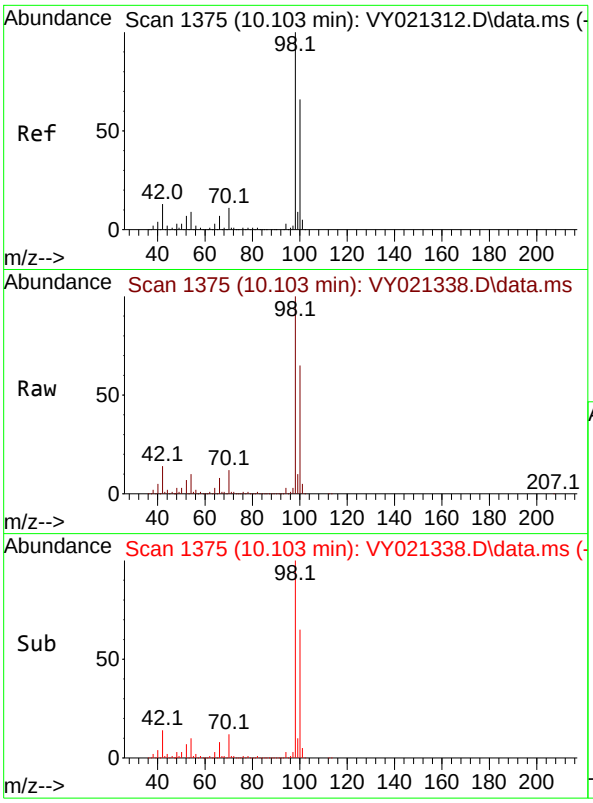


#35
Dibromofluoromethane
Concen: 50.386 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion:113 Resp: 184126

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.0	121.6
192	19.8	15.8	23.8



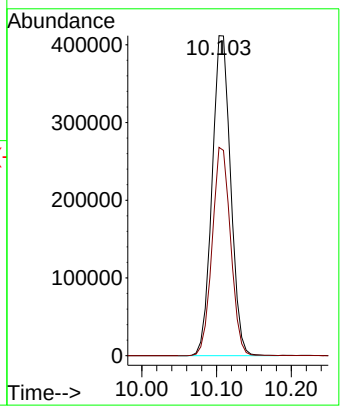


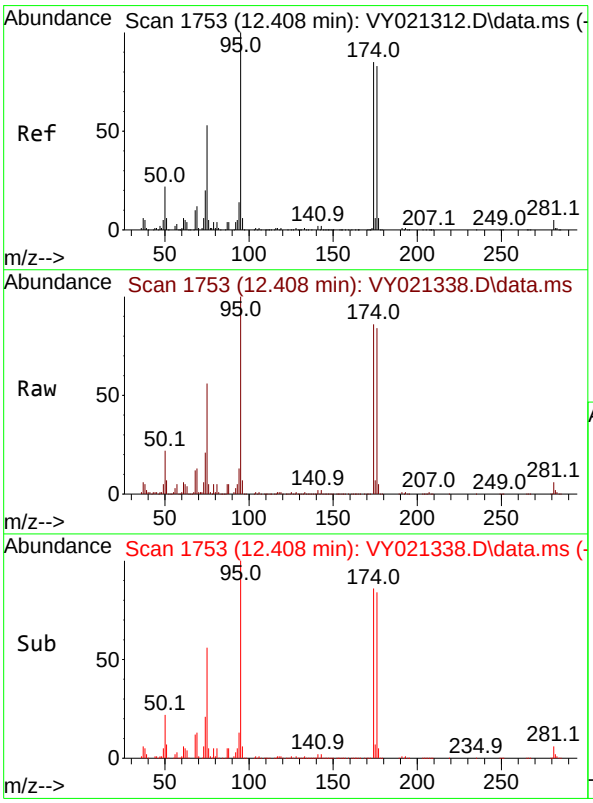
#50
Toluene-d8
Concen: 50.207 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion: 98 Resp: 709070

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.4	78.6

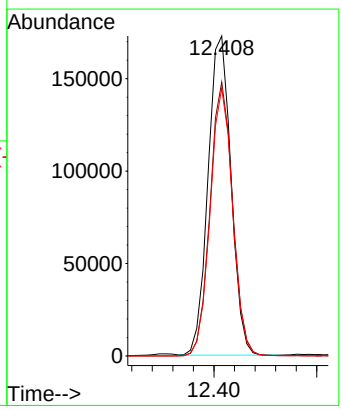


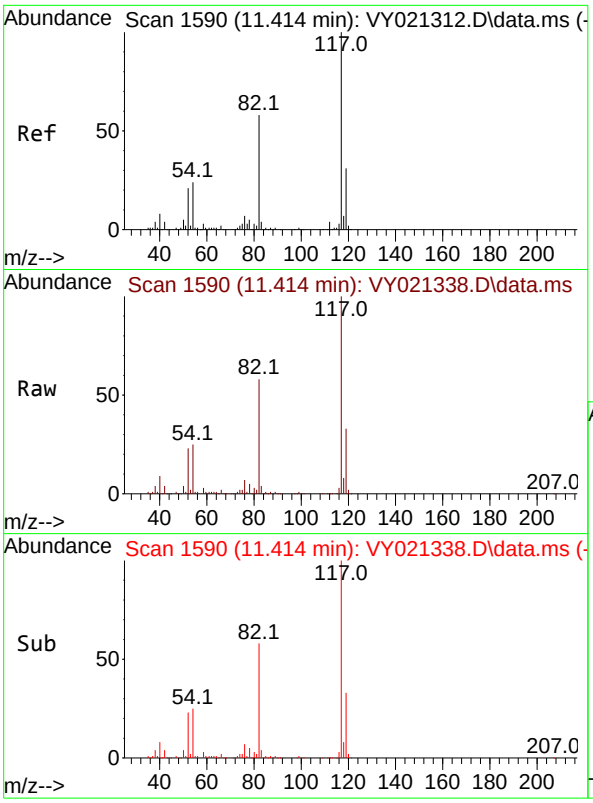


#62
4-Bromofluorobenzene
Concen: 56.342 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion: 95 Resp: 267792

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	168.0
176	82.1	0.0	162.6



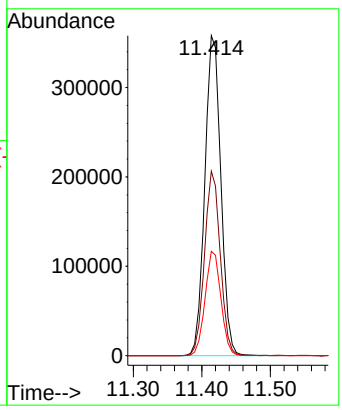


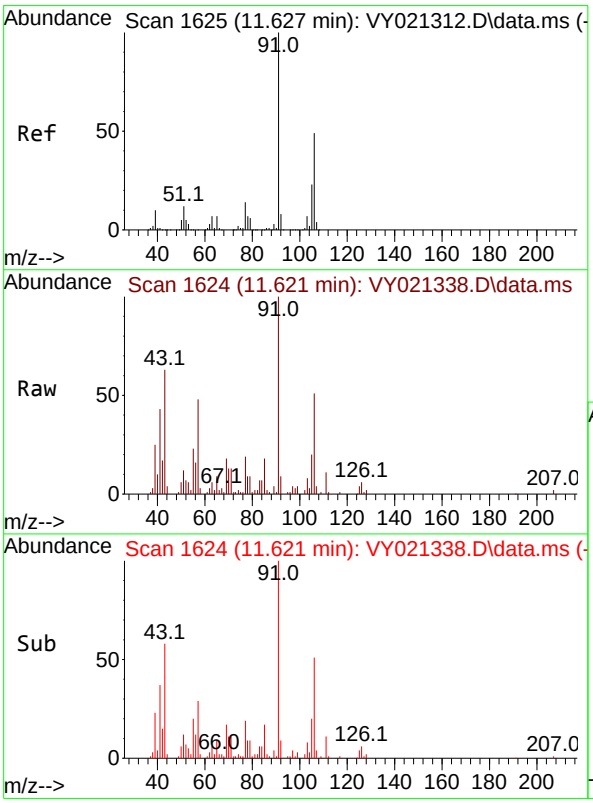
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion:117 Resp: 583706

Ion	Ratio	Lower	Upper
117	100		
82	57.6	46.2	69.4
119	32.6	24.9	37.3

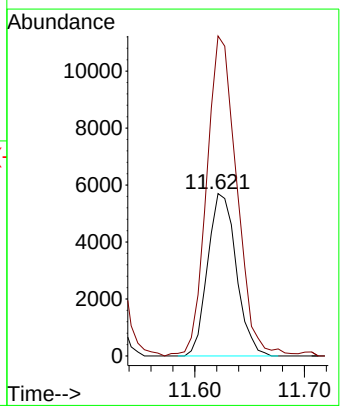


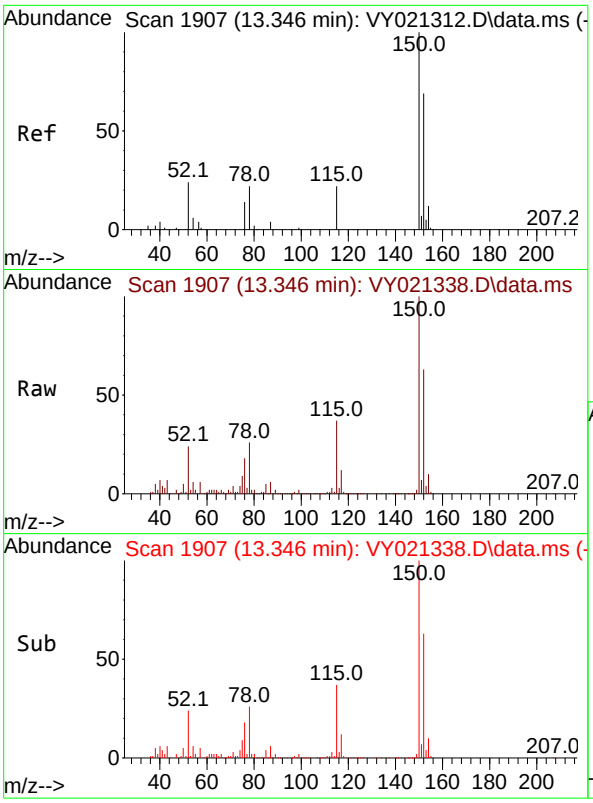


#68
m/p-Xylenes
Concen: 1.182 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.006 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Tgt Ion:106 Resp: 10321

Ion	Ratio	Lower	Upper
106	100		
91	207.8	163.9	245.9



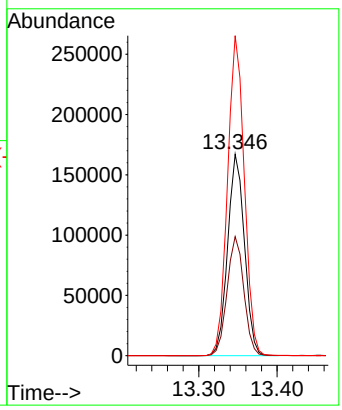


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021338.D
Acq: 26 Feb 2025 17:48

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Tgt Ion:152 Resp: 249107

Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.3	88.0
150	158.7	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021338.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	13	17	19	rBV2	14988	19707	1.01%	0.095%
2	2.336	96	101	110	rBV	29599	50253	2.56%	0.242%
3	3.866	341	352	362	rBV2	23771	64005	3.27%	0.309%
4	5.476	603	616	632	rVB4	8849	30339	1.55%	0.146%
5	6.890	840	848	861	rBV	9902	29653	1.51%	0.143%
6	7.634	960	970	976	rBV	263299	629190	32.10%	3.036%
7	7.707	976	982	996	rVB	377383	842464	42.98%	4.065%
8	8.061	1031	1040	1053	rBV	220027	489646	24.98%	2.363%
9	8.616	1121	1131	1146	rBV	689882	1346593	68.70%	6.498%
10	10.103	1368	1375	1391	rBV	1130249	1960180	100.00%	9.459%
11	10.298	1400	1407	1413	rVB	15468	26445	1.35%	0.128%
12	10.493	1433	1439	1454	rVB	903569	1370031	69.89%	6.611%
13	10.902	1501	1506	1513	rVV3	13251	31871	1.63%	0.154%
14	11.213	1548	1557	1567	rVV4	54329	127600	6.51%	0.616%
15	11.310	1567	1573	1582	rVB	37655	61350	3.13%	0.296%
16	11.414	1582	1590	1600	rBV	1166850	1885636	96.20%	9.099%
17	11.517	1600	1607	1610	rVV	27822	51469	2.63%	0.248%
18	11.548	1610	1612	1616	rVV3	17876	24899	1.27%	0.120%
19	11.639	1616	1627	1635	rVV4	241464	531579	27.12%	2.565%
20	11.706	1635	1638	1643	rVB2	24193	36664	1.87%	0.177%
21	11.859	1658	1663	1668	rVB3	23861	37529	1.91%	0.181%
22	11.938	1668	1676	1682	rBV5	81199	249397	12.72%	1.203%
23	12.048	1690	1694	1698	rVB	61389	81818	4.17%	0.395%
24	12.127	1698	1707	1710	rBV3	35746	82233	4.20%	0.397%
25	12.170	1710	1714	1723	rVV5	74351	163498	8.34%	0.789%
26	12.249	1723	1727	1730	rVV	18652	29082	1.48%	0.140%
27	12.316	1730	1738	1739	rVV4	53131	119944	6.12%	0.579%
28	12.341	1739	1742	1744	rVV	98633	144002	7.35%	0.695%
29	12.365	1744	1746	1748	rVV	109111	129438	6.60%	0.625%
30	12.408	1748	1753	1758	rVV	956907	1544693	78.80%	7.454%
31	12.450	1758	1760	1765	rVV2	106338	128594	6.56%	0.621%
32	12.572	1776	1780	1786	rVB3	35628	67783	3.46%	0.327%
33	12.651	1786	1793	1796	rBV3	34416	64643	3.30%	0.312%
34	12.731	1796	1806	1811	rBV2	535699	820916	41.88%	3.961%
35	12.786	1811	1815	1820	rVB	59015	88455	4.51%	0.427%
36	12.840	1820	1824	1826	rBV3	20505	31455	1.60%	0.152%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

37	12.877	1826	1830	1833	rVB2	32397	40758	2.08%	0.197%
38	12.926	1833	1838	1841	rBV3	44493	79415	4.05%	0.383%
39	12.962	1841	1844	1851	rVB2	100486	160072	8.17%	0.772%
40	13.029	1851	1855	1861	rVB5	23800	43991	2.24%	0.212%
41	13.090	1861	1865	1871	rBV3	37367	68844	3.51%	0.332%
42	13.243	1882	1890	1894	rBV2	102752	229253	11.70%	1.106%
43	13.285	1894	1897	1900	rVV2	101048	140610	7.17%	0.679%
44	13.346	1900	1907	1914	rVV	1111104	1795851	91.62%	8.666%
45	13.426	1916	1920	1927	rBV2	89215	148824	7.59%	0.718%
46	13.627	1946	1953	1954	rBV3	14126	25940	1.32%	0.125%
47	13.676	1955	1961	1965	rVV	600688	847836	43.25%	4.091%
48	13.712	1965	1967	1972	rVB	41933	54607	2.79%	0.264%
49	13.773	1972	1977	1983	rBV5	41336	82400	4.20%	0.398%
50	13.840	1983	1988	1992	rBV4	42499	97223	4.96%	0.469%
51	13.889	1992	1996	2001	rVB3	81209	128140	6.54%	0.618%
52	13.938	2001	2004	2009	rVB2	44474	65704	3.35%	0.317%
53	13.999	2009	2014	2018	rBV4	24341	40530	2.07%	0.196%
54	14.066	2018	2025	2029	rBV4	38437	76141	3.88%	0.367%
55	14.121	2029	2034	2037	rBV3	42680	63666	3.25%	0.307%
56	14.169	2037	2042	2044	rBV3	121401	219488	11.20%	1.059%
57	14.237	2050	2053	2060	rVB	89738	116252	5.93%	0.561%
58	14.304	2060	2064	2067	rVV2	79906	106327	5.42%	0.513%
59	14.340	2067	2070	2074	rVB3	60435	78329	4.00%	0.378%
60	14.395	2074	2079	2086	rVB6	44831	89371	4.56%	0.431%
61	14.468	2086	2091	2094	rBV5	14456	26373	1.35%	0.127%
62	14.529	2096	2101	2108	rVV	468446	654060	33.37%	3.156%
63	14.602	2108	2113	2117	rVV2	68140	123592	6.31%	0.596%
64	14.651	2117	2121	2128	rVV	147054	249935	12.75%	1.206%
65	14.724	2128	2133	2137	rVV6	43780	92898	4.74%	0.448%
66	14.767	2137	2140	2148	rVV7	58553	153142	7.81%	0.739%
67	14.858	2152	2155	2159	rVB3	31299	46239	2.36%	0.223%
68	14.950	2166	2170	2176	rBV4	43981	89399	4.56%	0.431%
69	15.011	2176	2180	2183	rVV2	45439	72755	3.71%	0.351%
70	15.053	2183	2187	2193	rVB4	99682	171950	8.77%	0.830%
71	15.121	2193	2198	2203	rBV	114243	178295	9.10%	0.860%
72	15.175	2204	2207	2215	rVB6	26634	63777	3.25%	0.308%
73	15.249	2215	2219	2224	rBV7	12964	28786	1.47%	0.139%
74	15.346	2230	2235	2241	rVB	272562	379261	19.35%	1.830%
75	15.450	2250	2252	2256	rVB3	24606	30581	1.56%	0.148%
76	15.925	2324	2330	2334	rVV5	21463	51332	2.62%	0.248%

Sample Results: **VY021338.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

77	15.986	2336	2340	2346	rVB6	15181	29929	1.53%	0.144%
78	16.047	2346	2350	2356	rVB5	13108	24149	1.23%	0.117%
79	16.248	2375	2383	2390	rBV	32025	64285	3.28%	0.310%

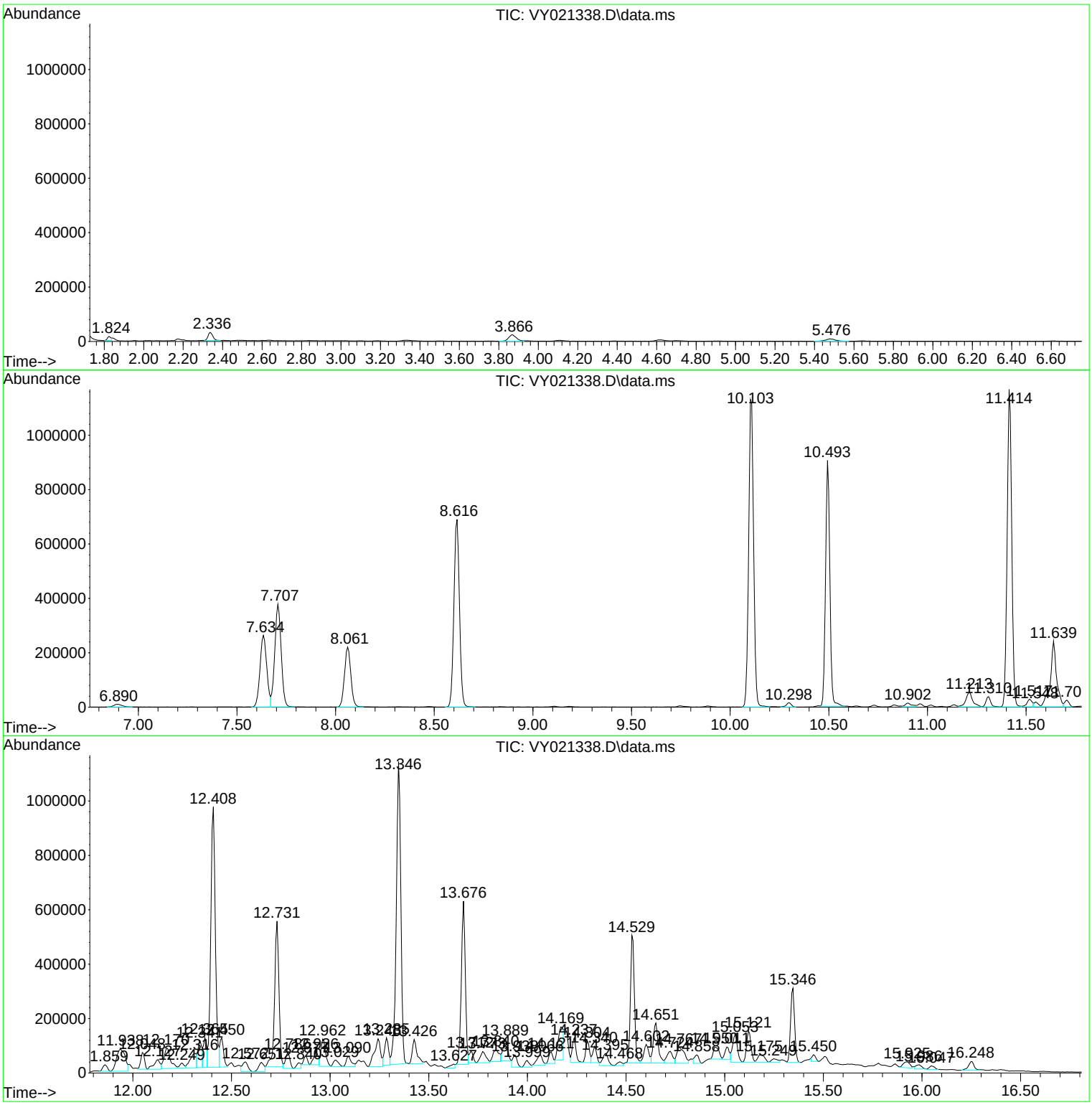
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

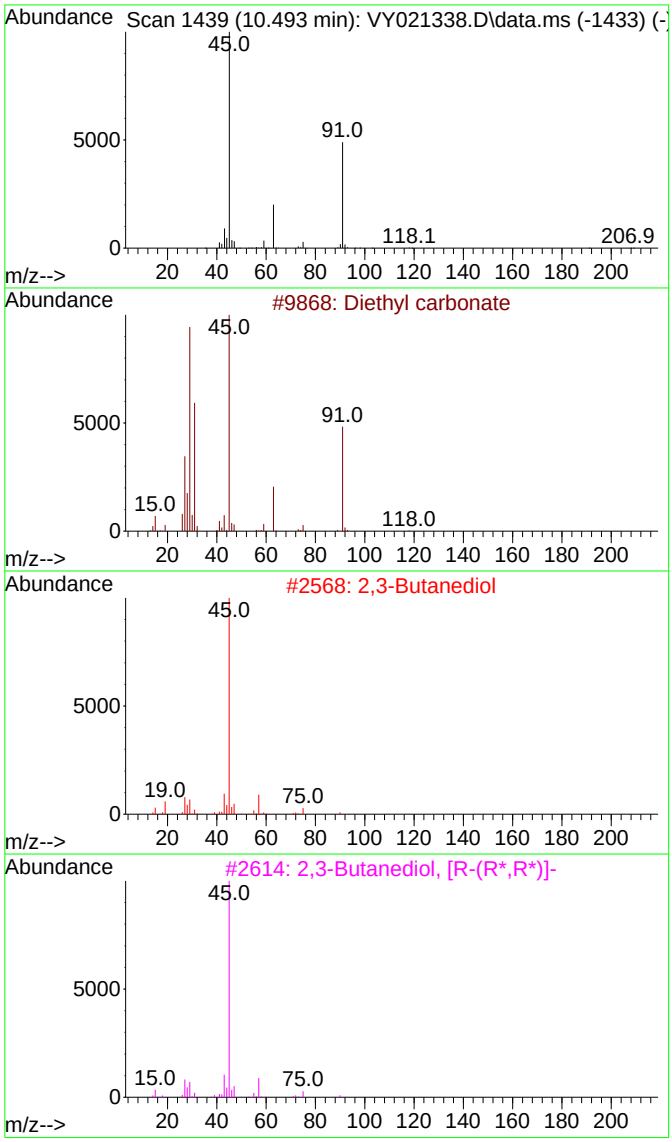
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

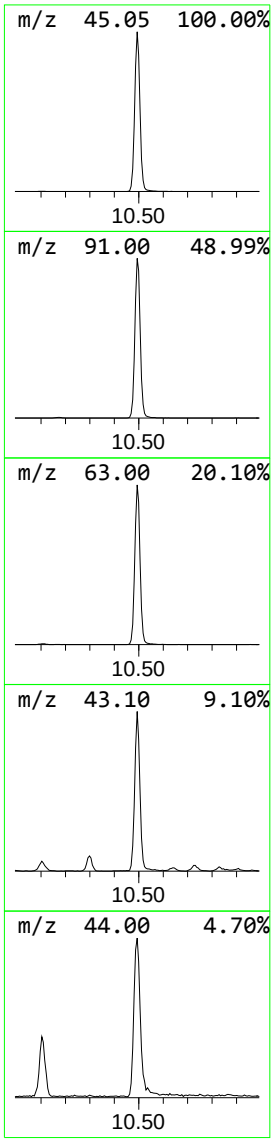
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.493	36.33 ug/l	1370030	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	86
2	2,3-Butanediol	90	C4H10O2	000513-85-9	50
3	2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	50
4	Dimethyl-cyano-phosphine	87	C3H6NP	031641-57-3	9
5	Isopropyl Alcohol	60	C3H8O	000067-63-0	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

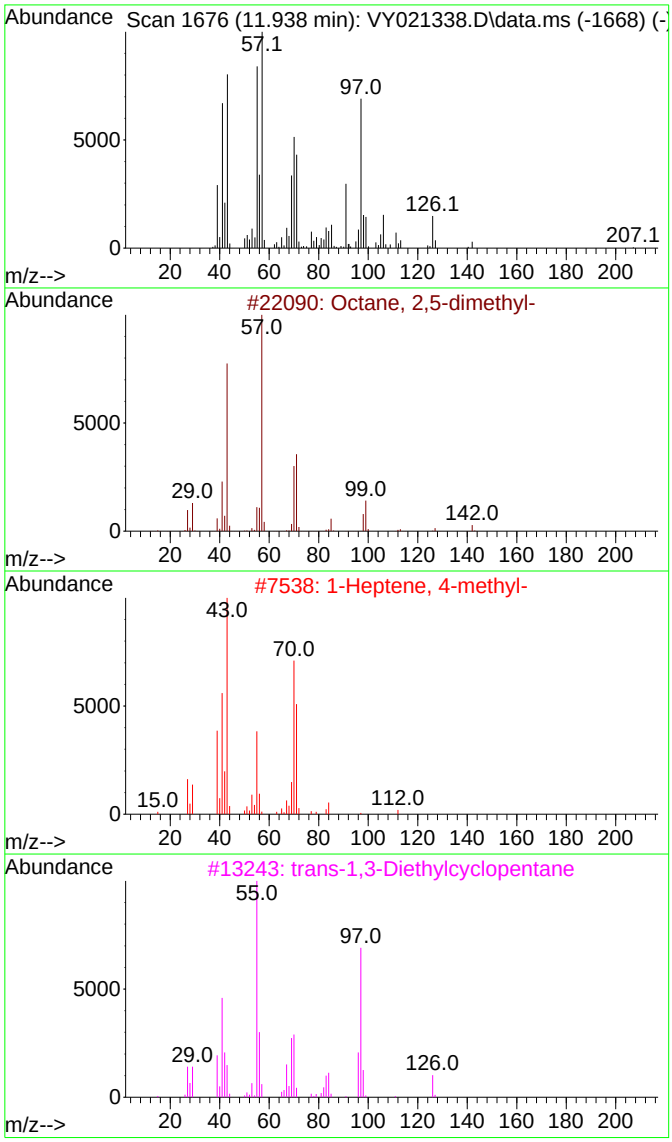
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

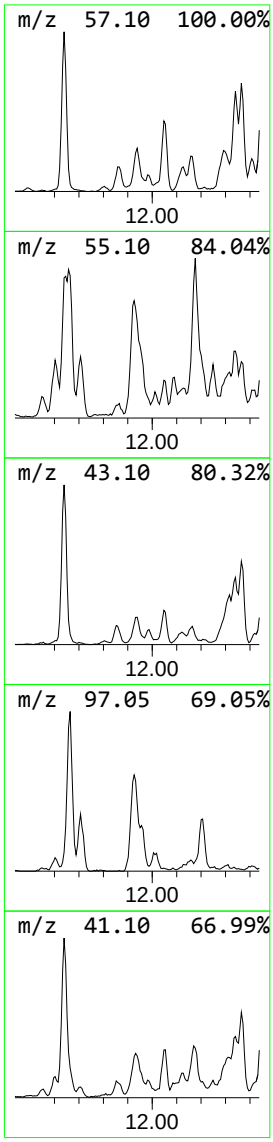
****

Peak Number 2 unknown11.938 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.938	6.61 ug/l	249397	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,5-dimethyl-	142	C10H22	015869-89-3	46
2	1-Heptene, 4-methyl-	112	C8H16	013151-05-8	42
3	trans-1,3-Diethylcyclopentane	126	C9H18	1000113-87-1	38
4	3-Nonene	126	C9H18	020063-77-8	35
5	1-Hexene, 4-ethyl-	112	C8H16	016746-85-3	25





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

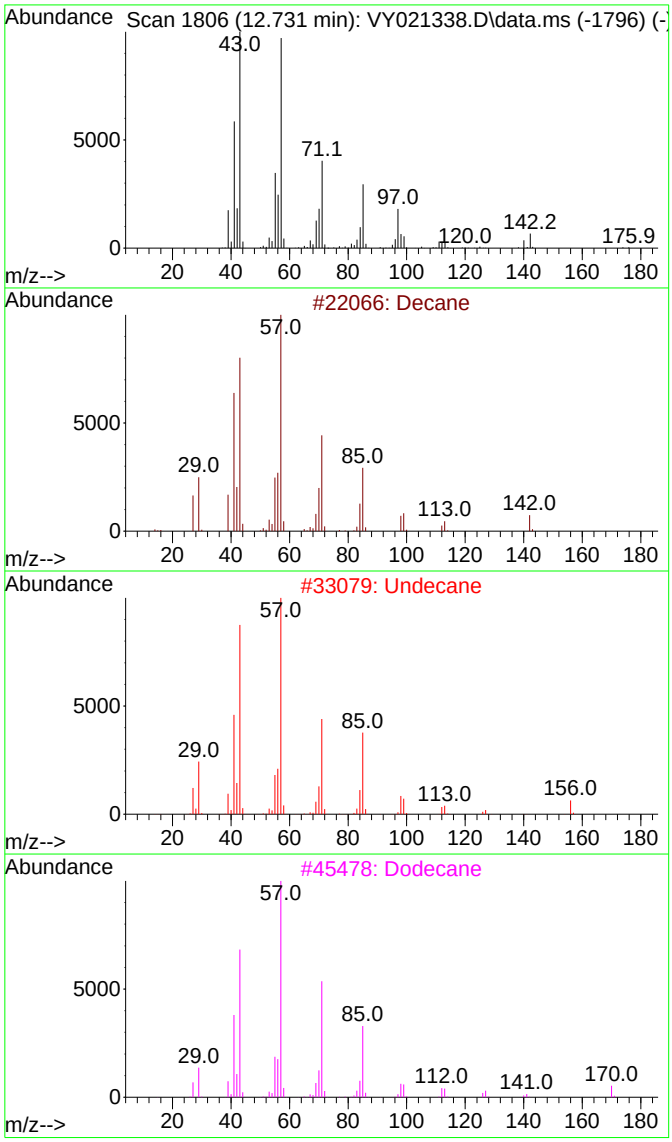
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

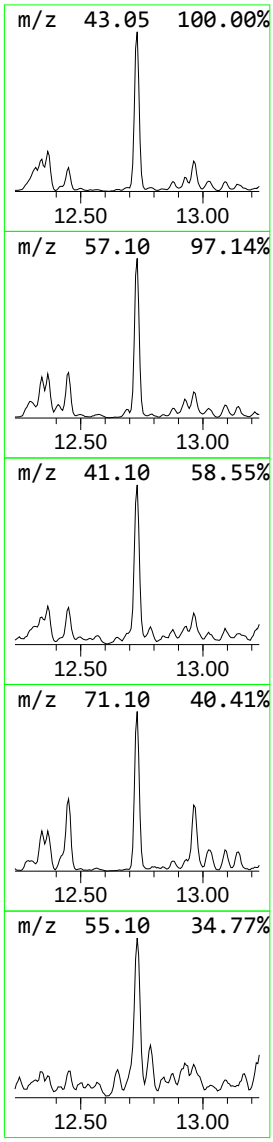
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Peak Number 3 Decane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.731	22.86 ug/l	820916	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	93
2	Undecane	156	C11H24	001120-21-4	72
3	Dodecane	170	C12H26	000112-40-3	59
4	Decane, 2,9-dimethyl-	170	C12H26	001002-17-1	59
5	Octane	114	C8H18	000111-65-9	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

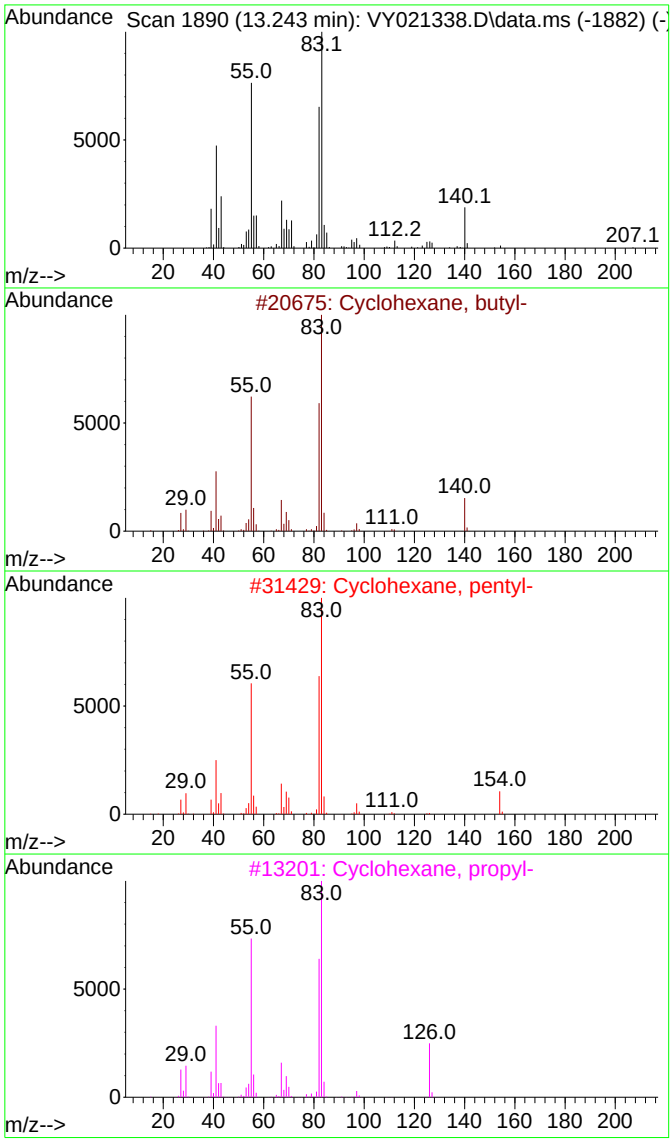
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

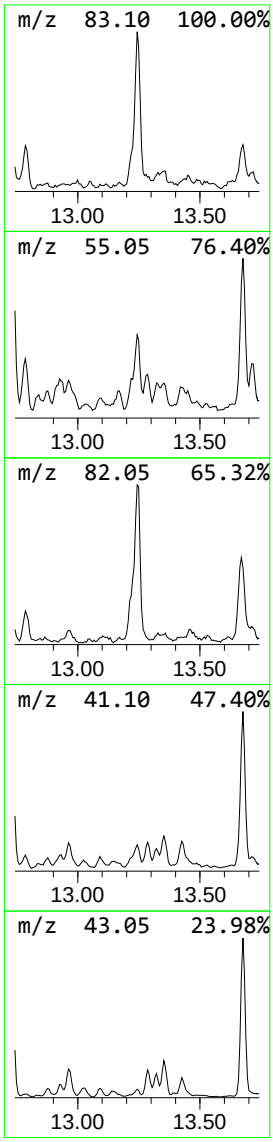
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Cyclohexane, butyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.243	6.38 ug/l	229253	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	93
2	Cyclohexane, pentyl-	154	C11H22	004292-92-6	87
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	87
4	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
5	Cyclohexane, octyl-	196	C14H28	001795-15-9	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

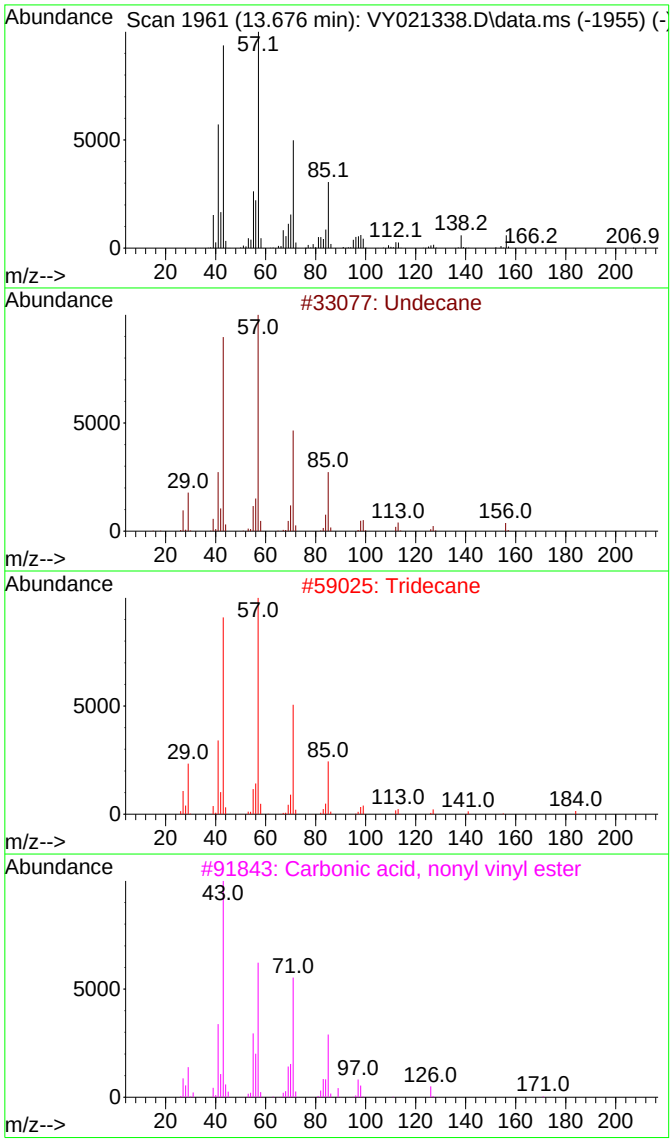
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

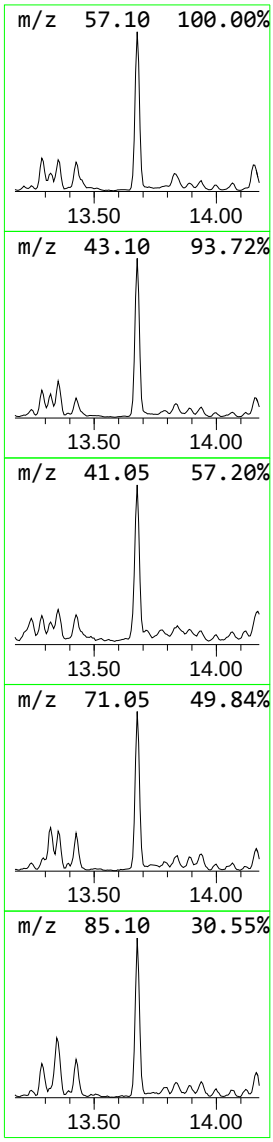
****

Peak Number 5 Undecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	23.61 ug/l	847836	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	80
2	Tridecane	184	C13H28	000629-50-5	59
3	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	53
4	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	53
5	Nonane	128	C9H20	000111-84-2	52





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

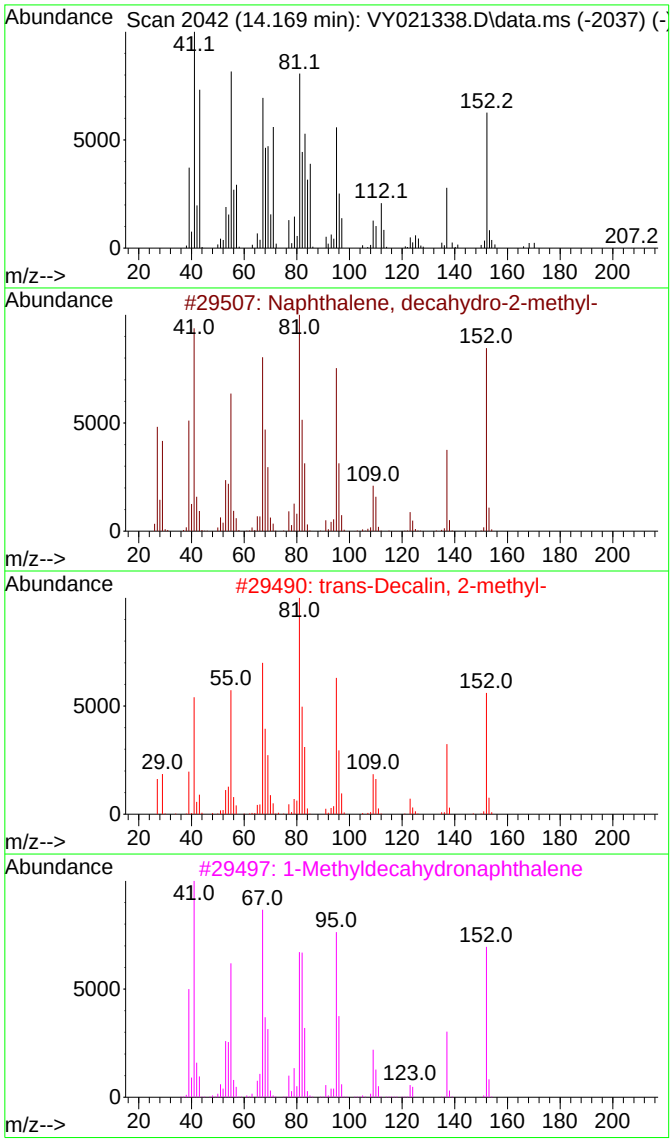
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Quant Title : SW846 8260

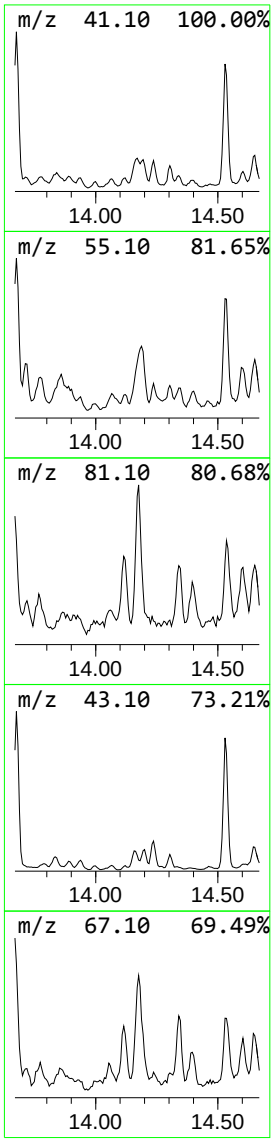
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, decahydro-2-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	6.11 ug/l	219488	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	93
3	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	60
4	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	55
5	Spiro[5.5]undecane	152	C11H20	000180-43-8	42





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

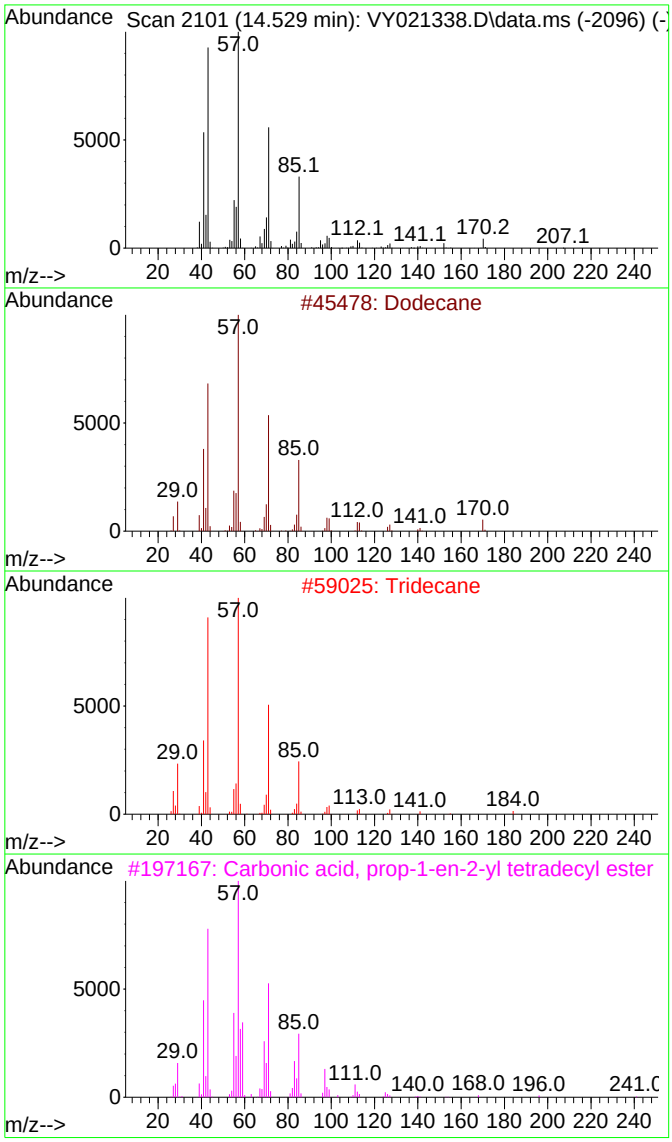
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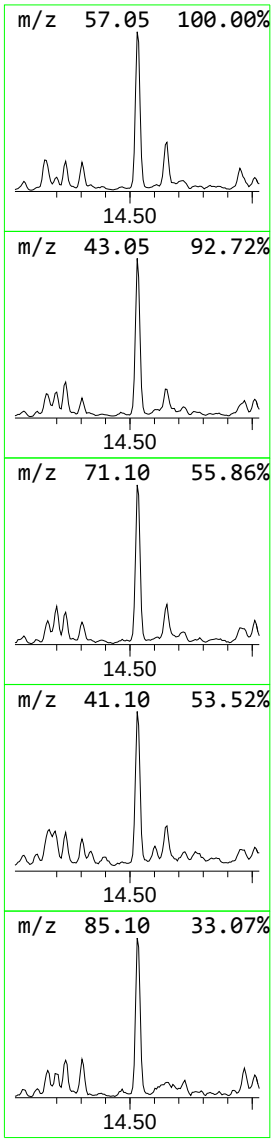
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Peak Number 7 Dodecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	18.21 ug/l	654060	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	91
2	Tridecane	184	C13H28	000629-50-5	86
3	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	86
4	Tetradecane	198	C14H30	000629-59-4	78
5	Hexadecane	226	C16H34	000544-76-3	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

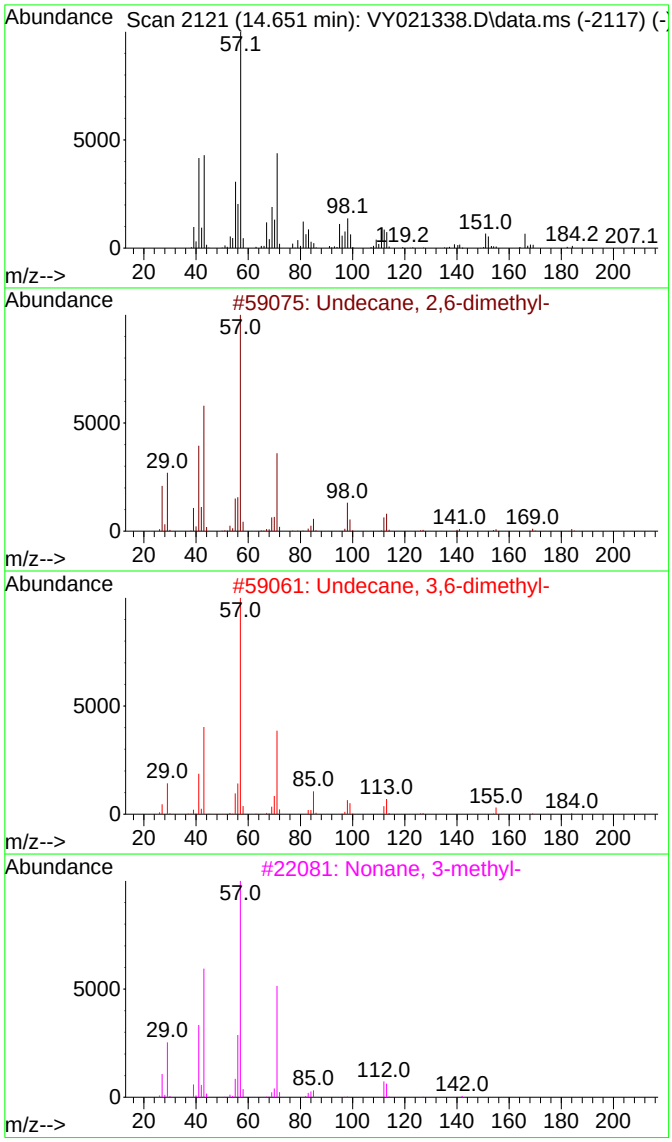
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Quant Title : SW846 8260

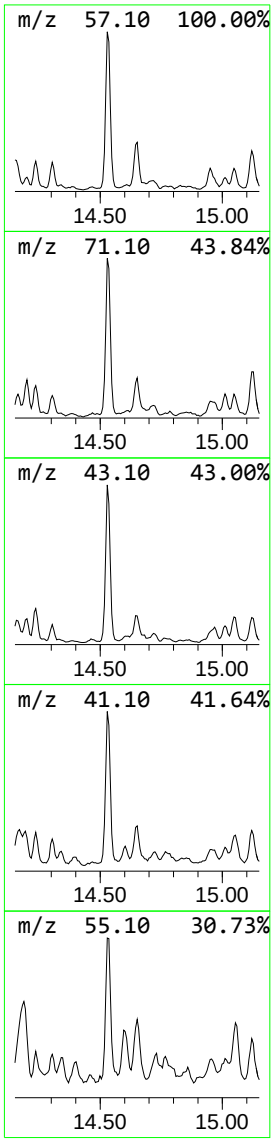
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Undecane, 2,6-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.651	6.96 ug/l	249935	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	70
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	53
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	53
4	Sulfurous acid, butyl dodecyl ester	306	C16H34O3S	1000309-17-9	53
5	Tridecane, 6-methyl-	198	C14H30	013287-21-3	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

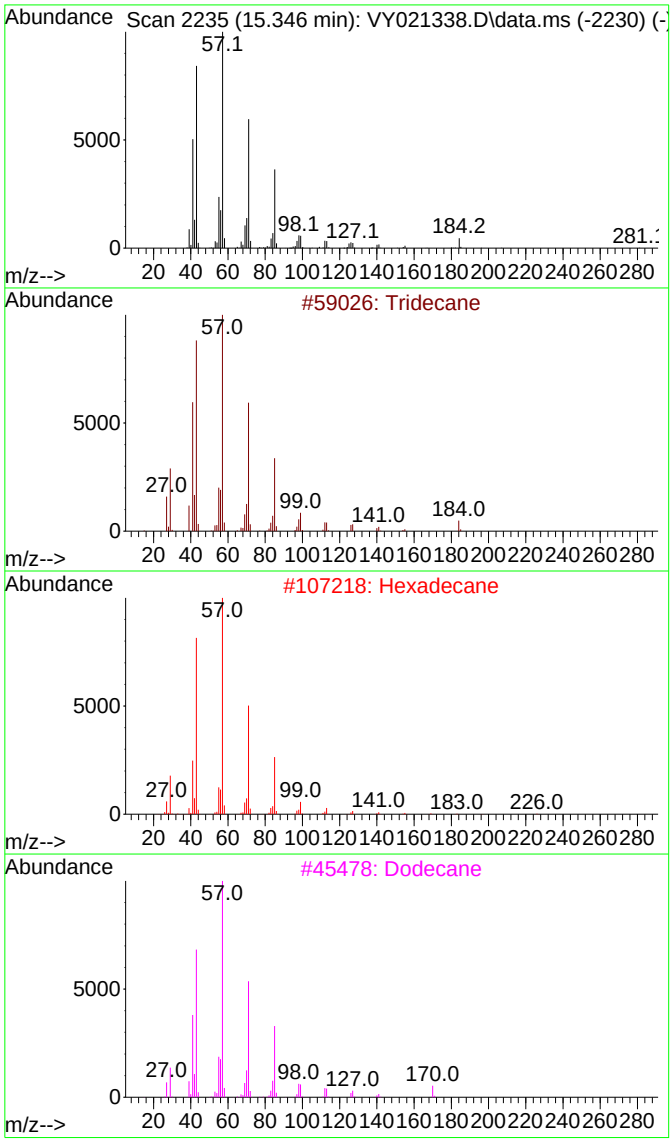
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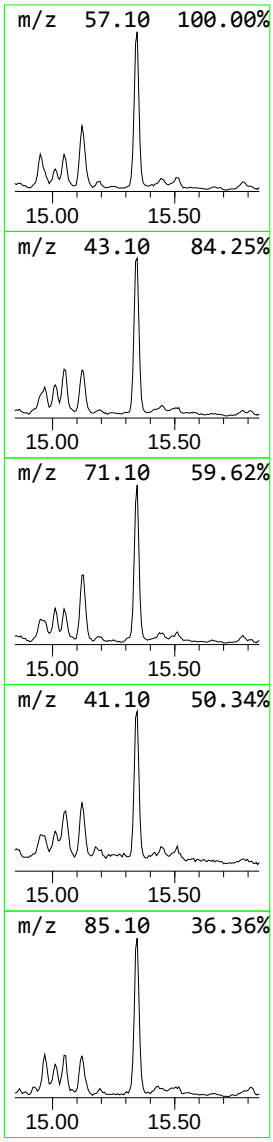
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Peak Number 9 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.346	10.56 ug/l	379261	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	94
2	Hexadecane	226	C16H34	000544-76-3	86
3	Dodecane	170	C12H26	000112-40-3	80
4	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	78
5	Undecane	156	C11H24	001120-21-4	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021338.D
Acq On : 26 Feb 2025 17:48
Operator : SY/MD
Sample : Q1415-03
Misc : 7.33g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Diethyl carbonate	10.493	36.3	ug/l	1370030	3	11.414	1885640	50.0
unknown11.938	11.938	6.6	ug/l	249397	3	11.414	1885640	50.0
Decane	12.731	22.9	ug/l	820916	4	13.346	1795850	50.0
Cyclohexane, bu...	13.243	6.4	ug/l	229253	4	13.346	1795850	50.0
Undecane	13.676	23.6	ug/l	847836	4	13.346	1795850	50.0
Naphthalene, de...	14.169	6.1	ug/l	219488	4	13.346	1795850	50.0
Dodecane	14.529	18.2	ug/l	654060	4	13.346	1795850	50.0
Undecane, 2,6-d...	14.651	7.0	ug/l	249935	4	13.346	1795850	50.0
Tridecane	15.346	10.6	ug/l	379261	4	13.346	1795850	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021355.D
Acq On : 27 Feb 2025 14:01
Operator : SY/MD
Sample : Q1415-03RE
Misc : 4.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Quant Time: Feb 28 00:41:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

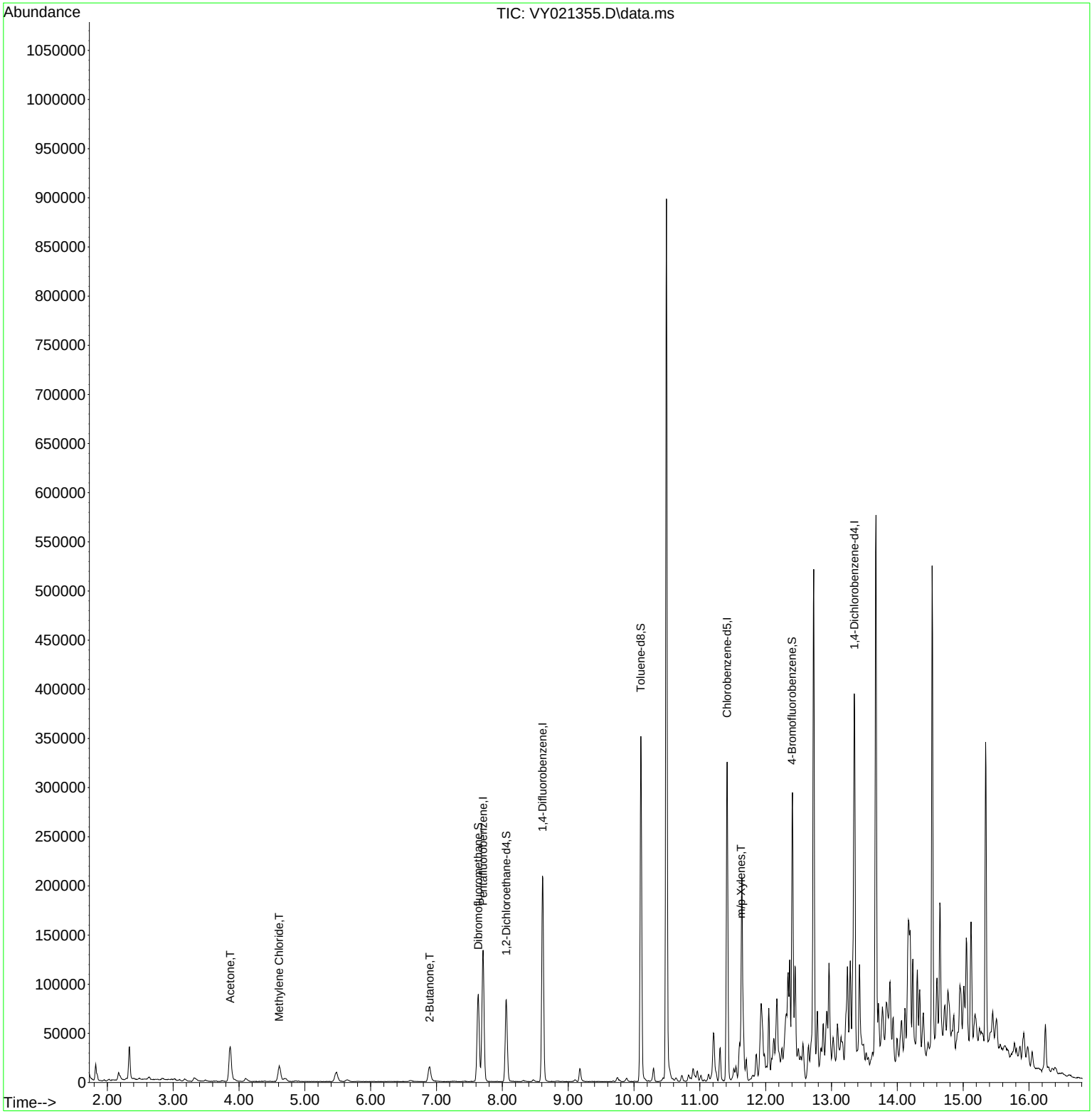
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	98490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	174802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	165444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	72948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	66104	59.165	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.340%			
35) Dibromofluoromethane	7.634	113	61849	53.969	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.940%			
50) Toluene-d8	10.103	98	212983	48.088	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.180%			
62) 4-Bromofluorobenzene	12.402	95	75524	50.668	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.340%			
Target Compounds						Qvalue
16) Acetone	3.867	43	62962	293.774	ug/l	98
20) Methylene Chloride	4.610	84	10764	9.288	ug/l	98
25) 2-Butanone	6.896	43	24297	75.116	ug/l	99
68) m/p-Xylenes	11.627	106	4332	1.751	ug/l	83

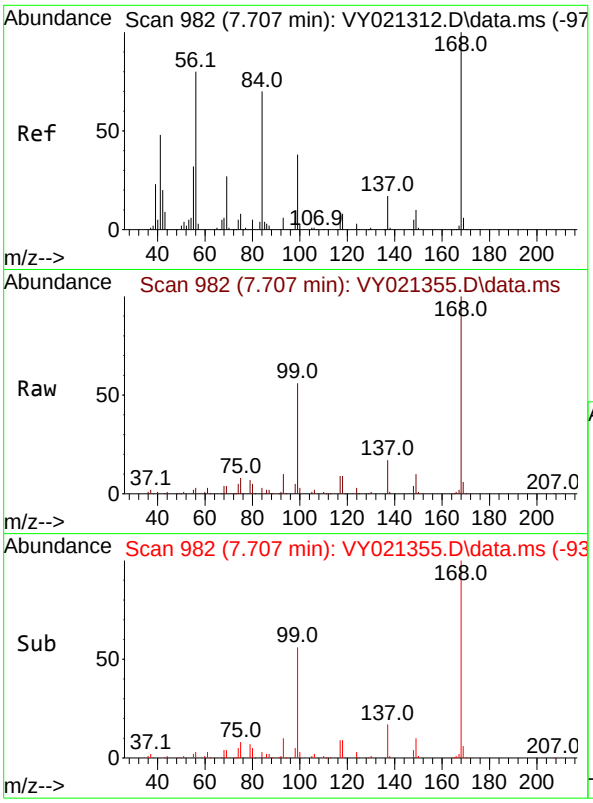
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021355.D
Acq On : 27 Feb 2025 14:01
Operator : SY/MD
Sample : Q1415-03RE
Misc : 4.10g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Quant Time: Feb 28 00:41:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



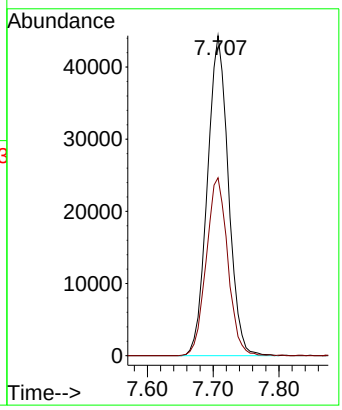


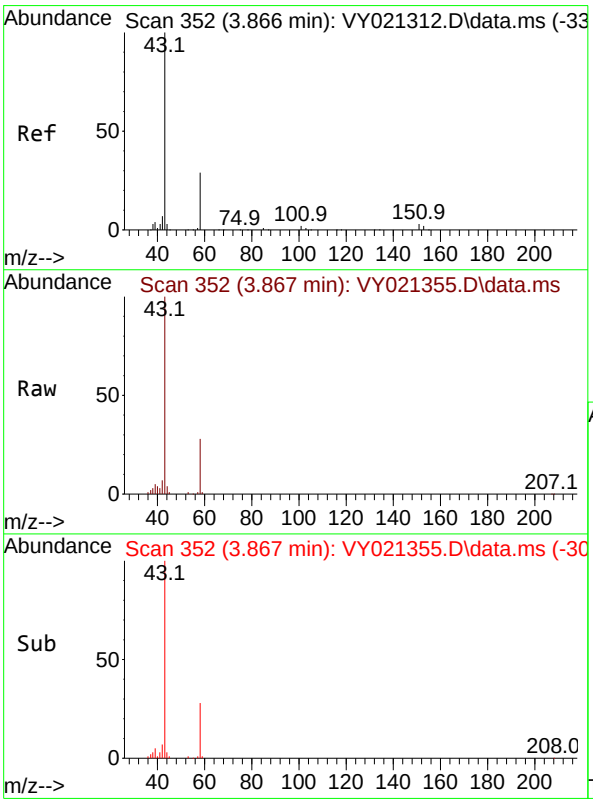
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion:168 Resp: 98490

Ion	Ratio	Lower	Upper
168	100		
99	55.6	47.1	70.7

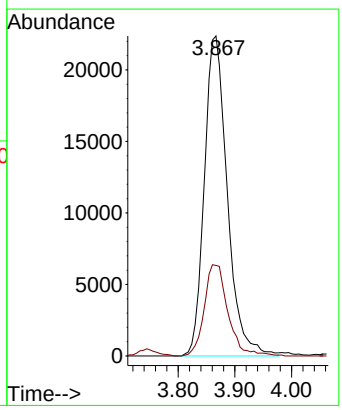




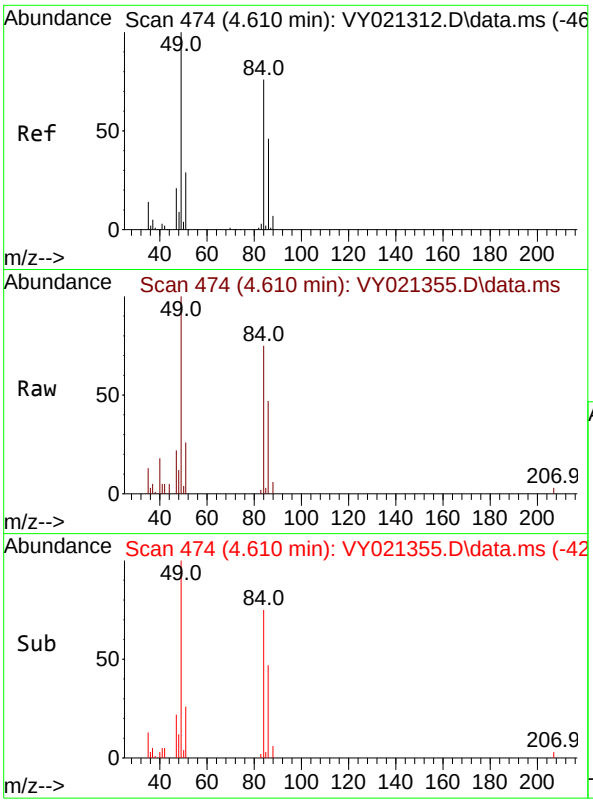
#16
Acetone
Concen: 293.774 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 43 Resp: 62962

Ion	Ratio	Lower	Upper
43	100		
58	28.3	23.5	35.3



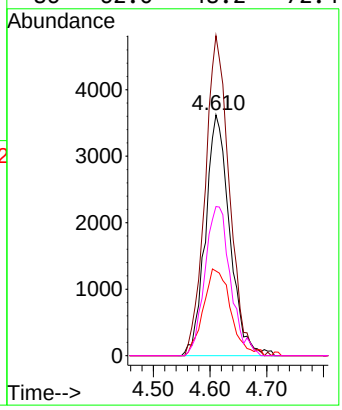
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

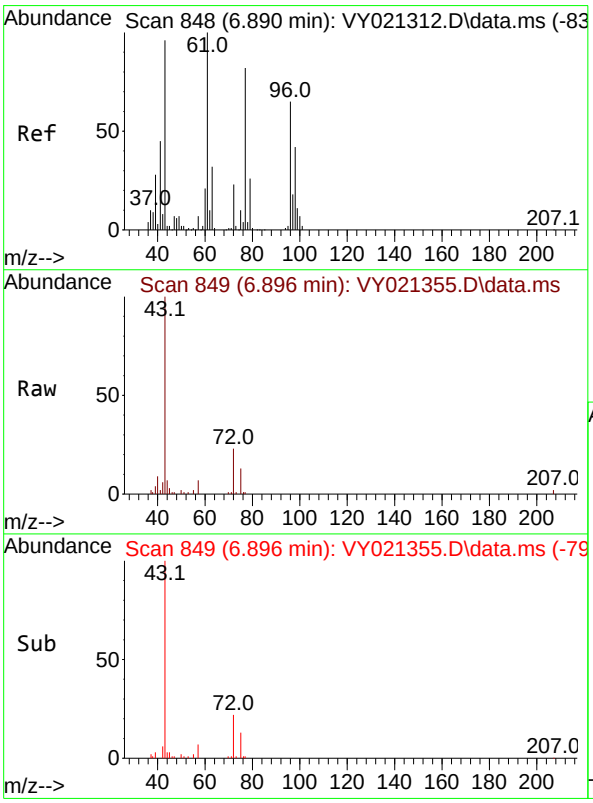


#20
Methylene Chloride
Concen: 9.288 ug/l
RT: 4.610 min Scan# 4
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 84 Resp: 10764

Ion	Ratio	Lower	Upper
84	100		
49	132.9	105.1	157.7
51	35.2	31.0	46.4
86	62.0	48.2	72.4

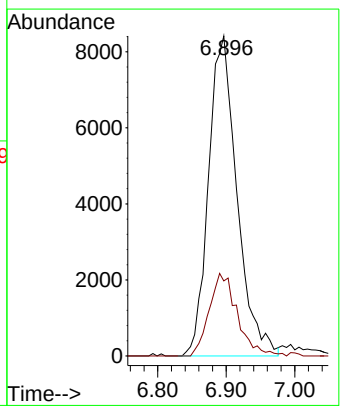


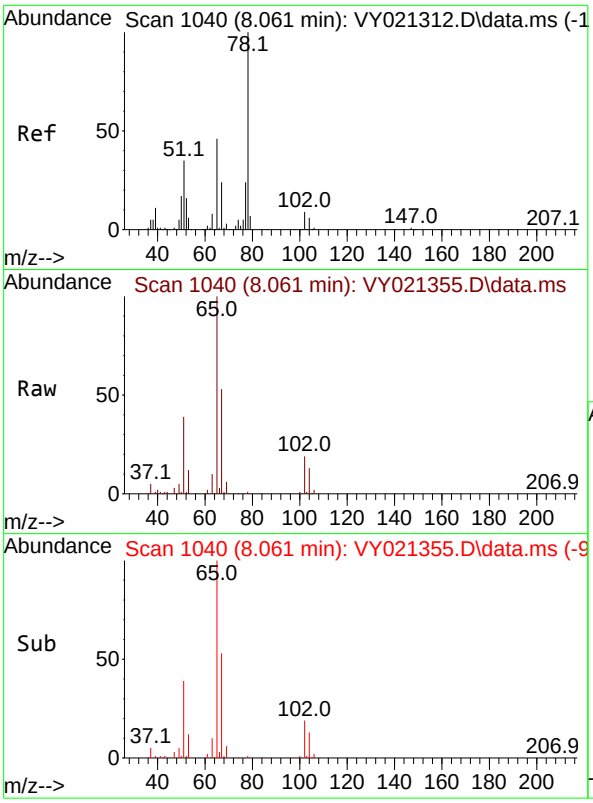


#25
2-Butanone
Concen: 75.116 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 43 Resp: 24297

Ion	Ratio	Lower	Upper
43	100		
72	23.5	19.0	28.6



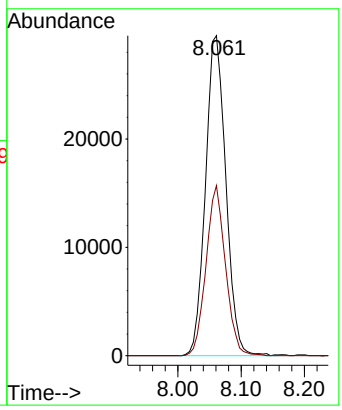


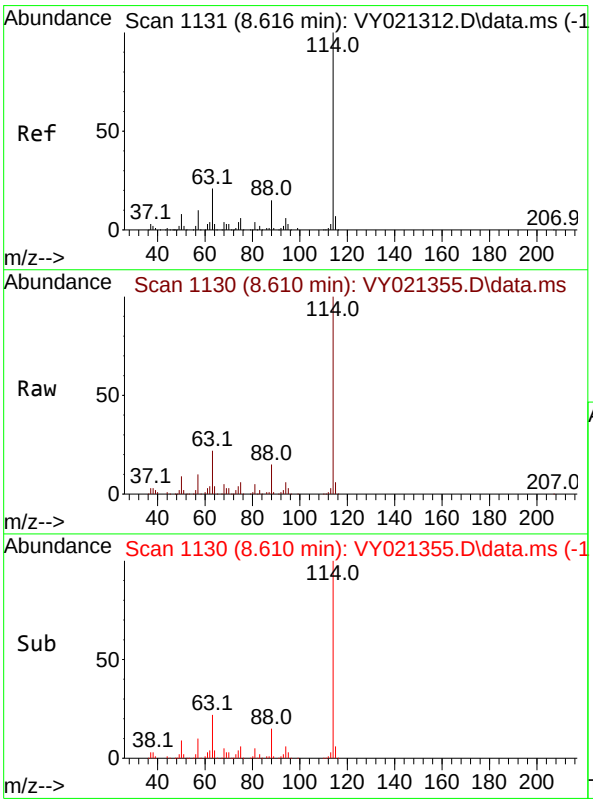
#33
1,2-Dichloroethane-d4
Concen: 59.165 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion: 65 Resp: 66104

Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	103.6

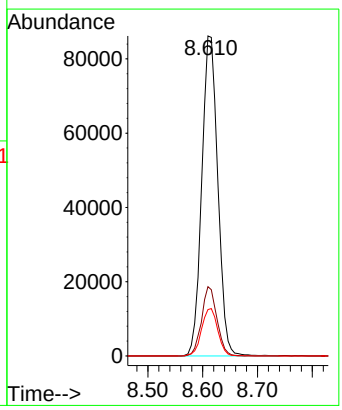


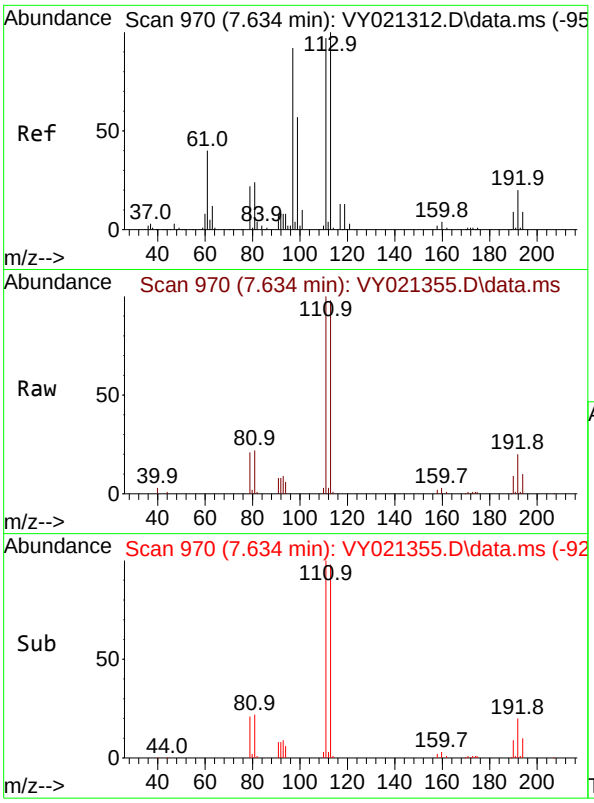


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion:114 Resp: 174802

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.2
88	14.5	0.0	29.8



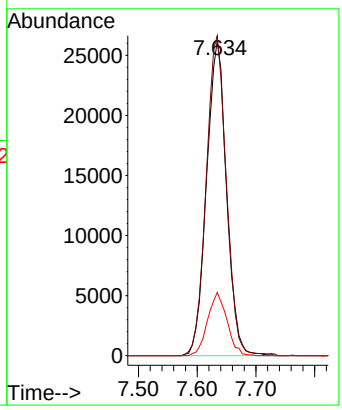


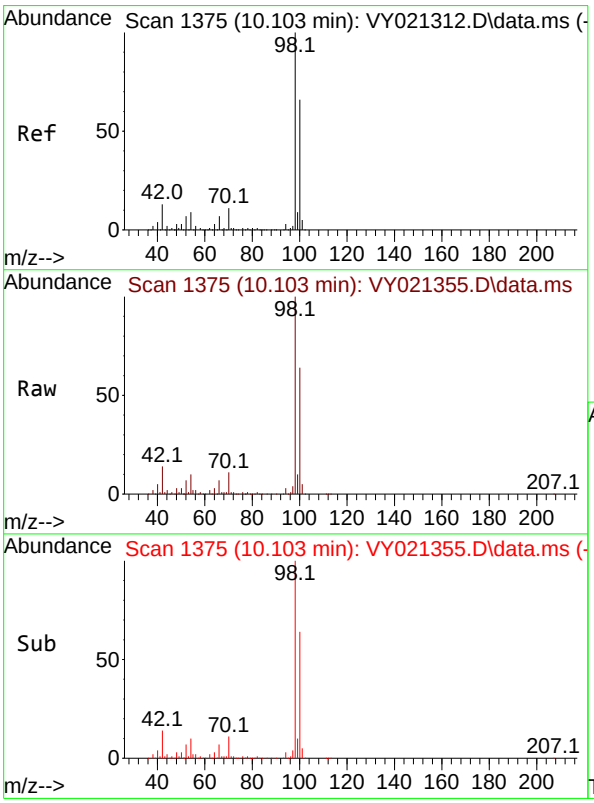
#35
Dibromofluoromethane
Concen: 53.969 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion:113 Resp: 61849

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.0	121.6
192	19.5	15.8	23.8

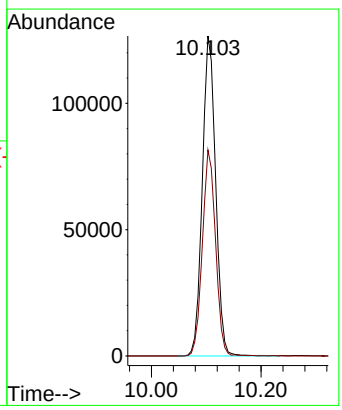




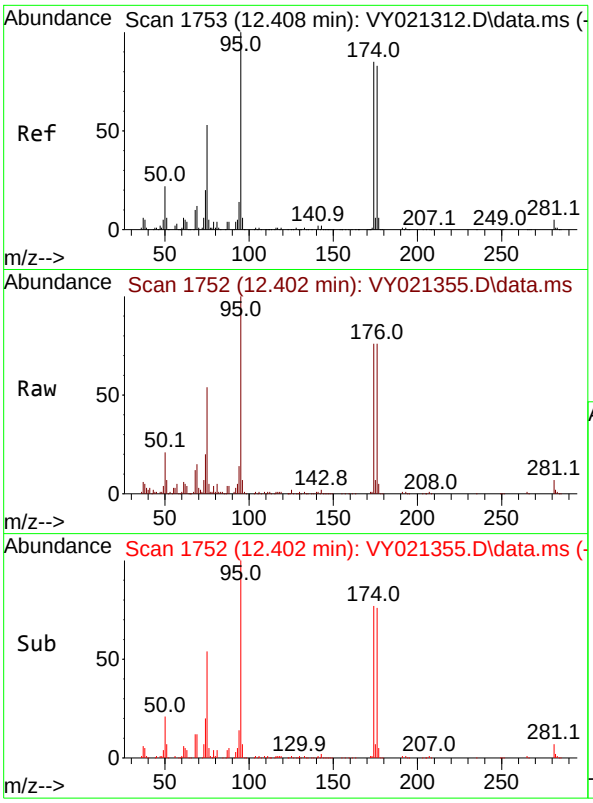
#50
Toluene-d8
Concen: 48.088 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 98 Resp: 212983

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.4	78.6



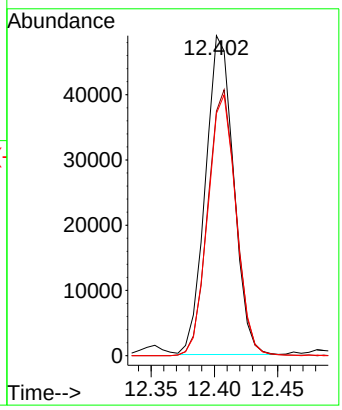
Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

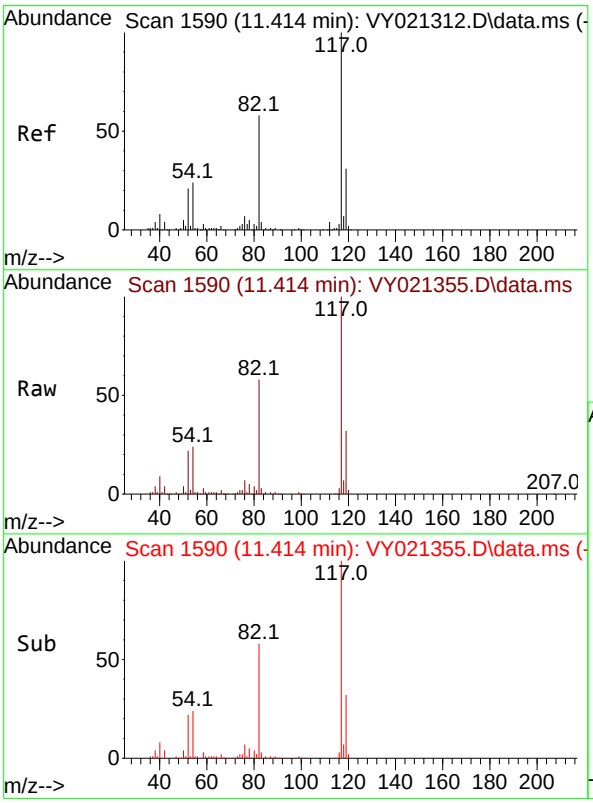


#62
4-Bromofluorobenzene
Concen: 50.668 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion: 95 Resp: 75524

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	168.0
176	82.3	0.0	162.6

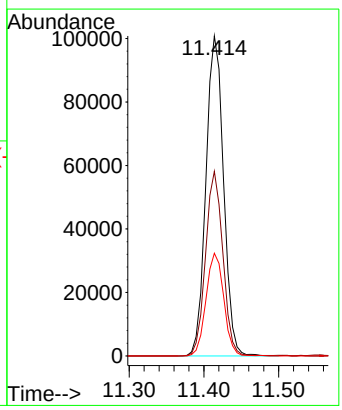


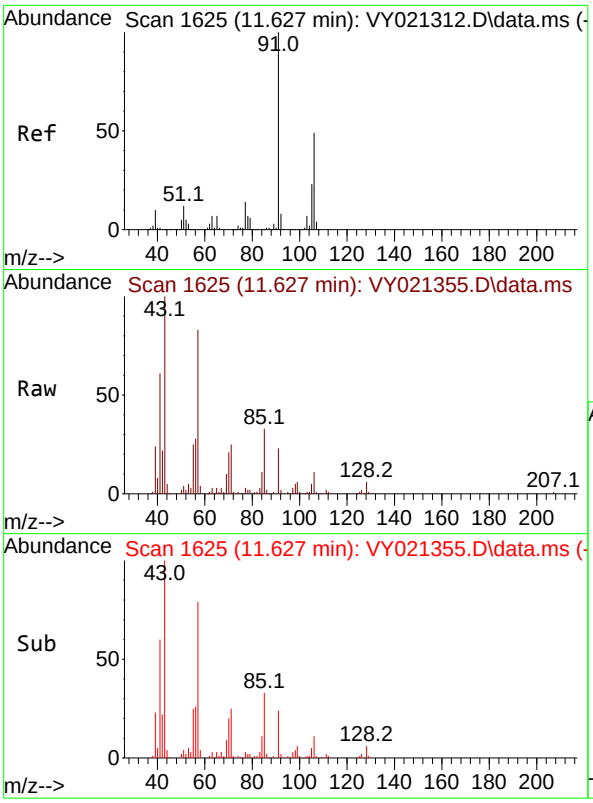


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion:117 Resp: 165444

Ion	Ratio	Lower	Upper
117	100		
82	57.7	46.2	69.4
119	32.1	24.9	37.3



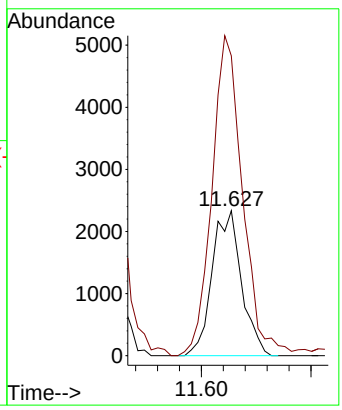


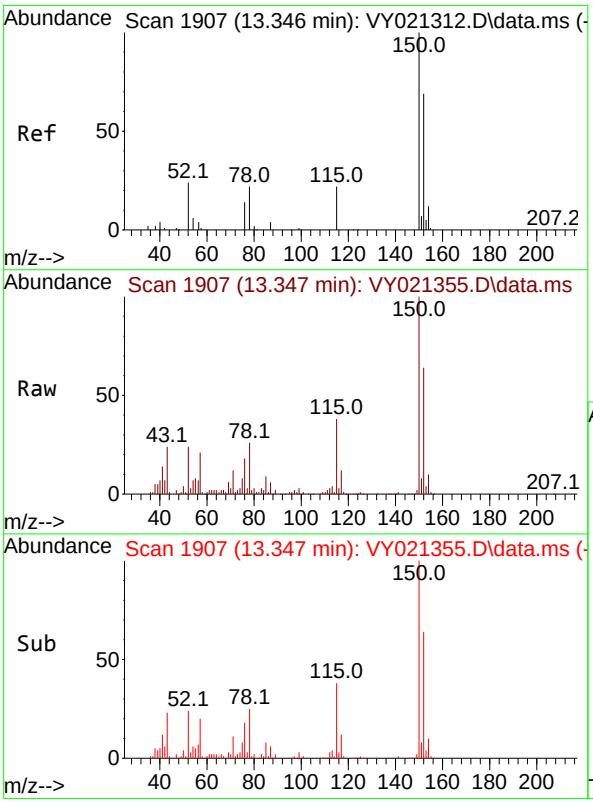
#68
m/p-Xylenes
Concen: 1.751 ug/l
RT: 11.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Instrument :
MSVOA_Y
ClientSampleId :
B-163-SB02RE

Tgt Ion:106 Resp: 4332

Ion	Ratio	Lower	Upper
106	100		
91	230.7	163.9	245.9

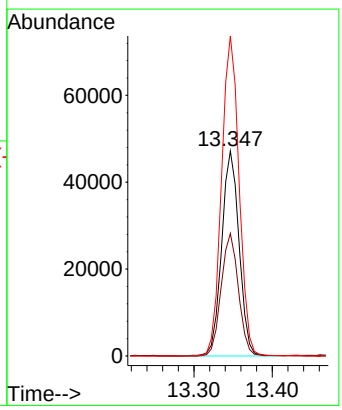




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021355.D
Acq: 27 Feb 2025 14:01

Tgt Ion:152 Resp: 72948

Ion	Ratio	Lower	Upper
152	100		
115	59.3	29.3	88.0
150	156.9	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 27 00:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	273603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	518008	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	414734	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	117278	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	158234	50.981	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.960%			
35) Dibromofluoromethane	7.634	113	171658	50.546	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.100%			
50) Toluene-d8	10.103	98	600650	45.764	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 91.520%			
62) 4-Bromofluorobenzene	12.407	95	155529	35.210	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.420%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.842	59	23623m	98.950	ug/l	
16) Acetone	3.866	43	46757	78.533	ug/l	92
18) Methyl Acetate	4.385	43	4019	2.762	ug/l	97

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

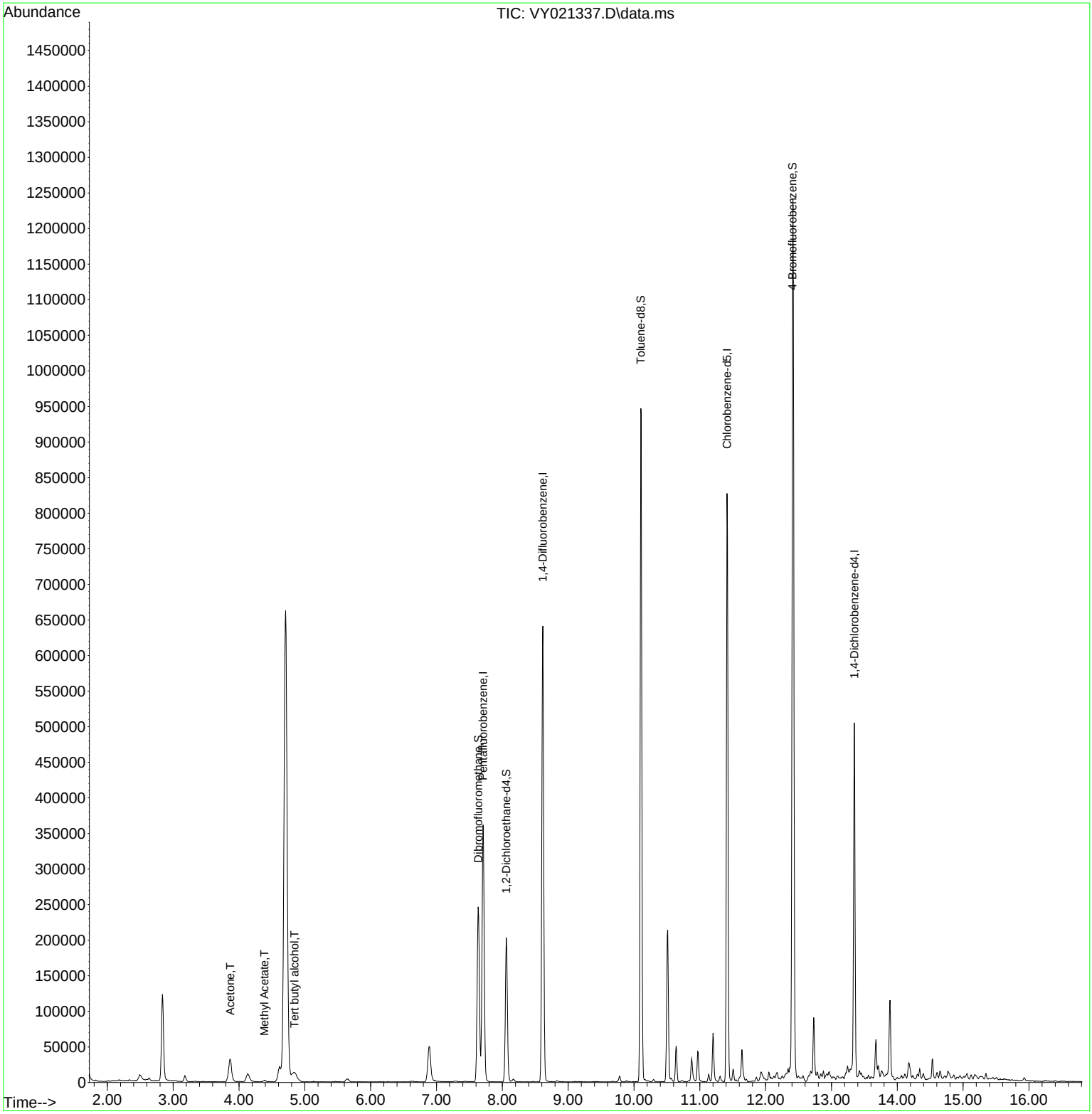
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

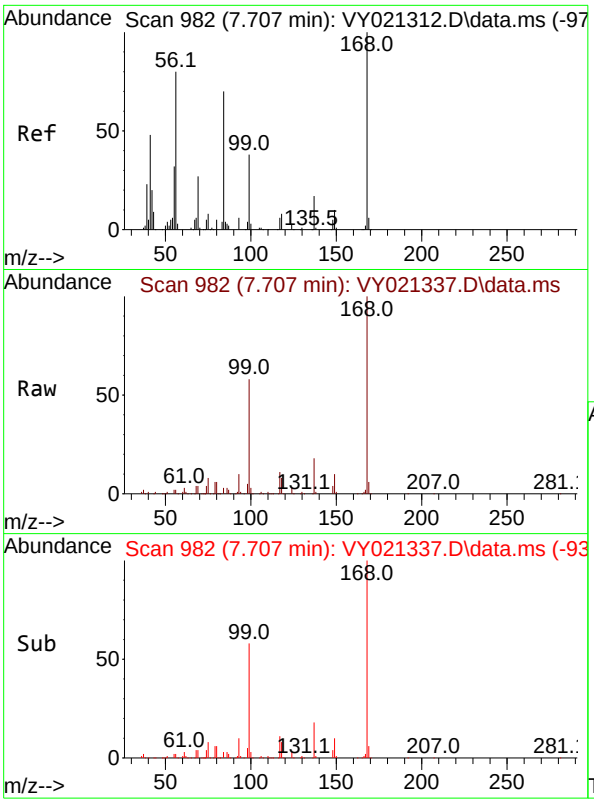
Quant Time: Feb 27 00:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

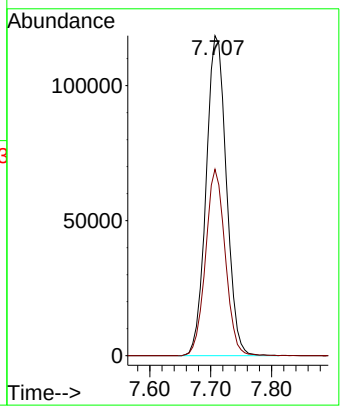
Tgt Ion:168 Resp: 27360

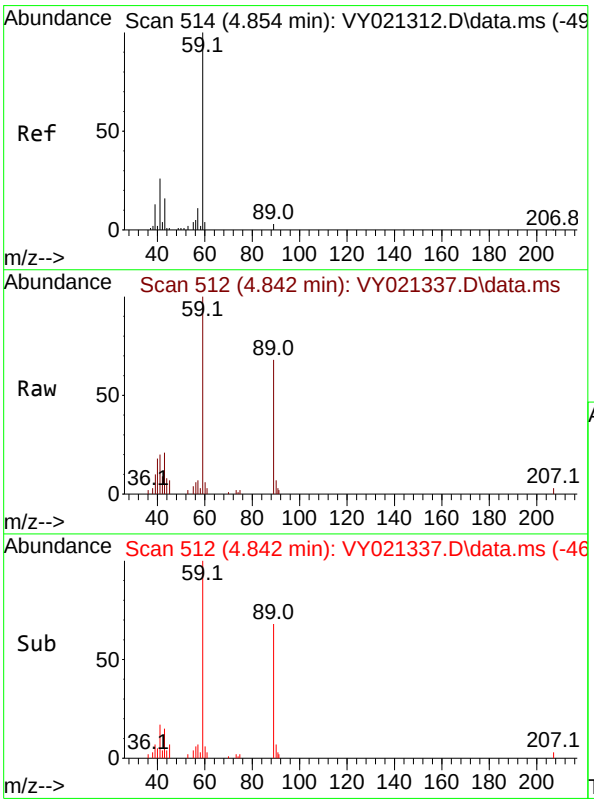
Ion	Ratio	Lower	Upper
168	100		
99	58.3	47.1	70.7

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

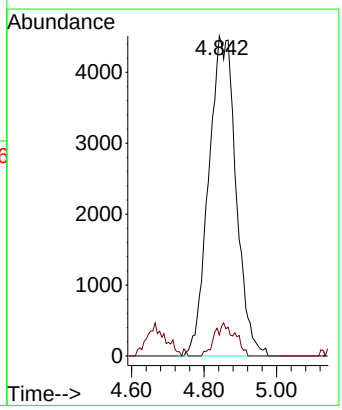


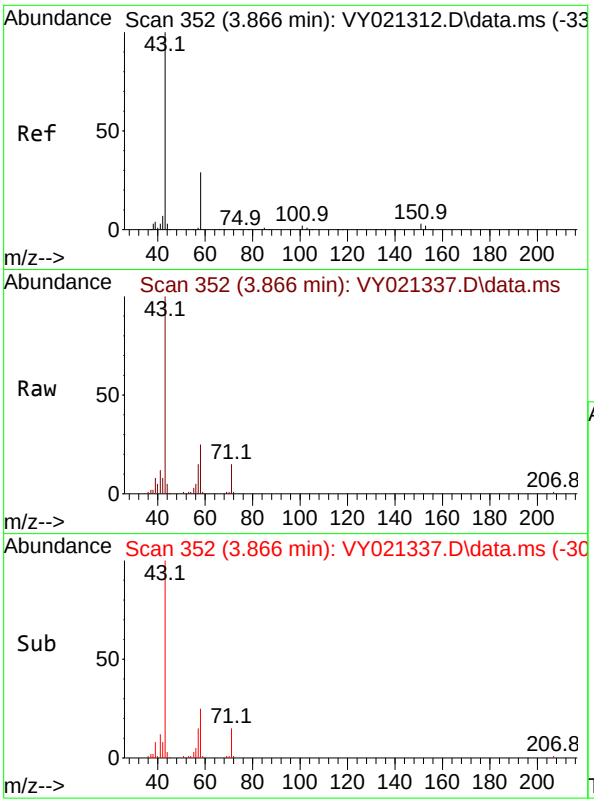


#11
Tert butyl alcohol
Concen: 98.950 ug/l m
RT: 4.842 min Scan# 512
Delta R.T. -0.012 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 59 Resp: 23623

Ion	Ratio	Lower	Upper
59	100		
57	5.9	8.3	12.5#

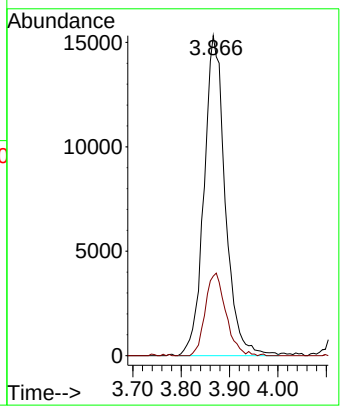




#16
Acetone
Concen: 78.533 ug/l
RT: 3.866 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 43 Resp: 4675

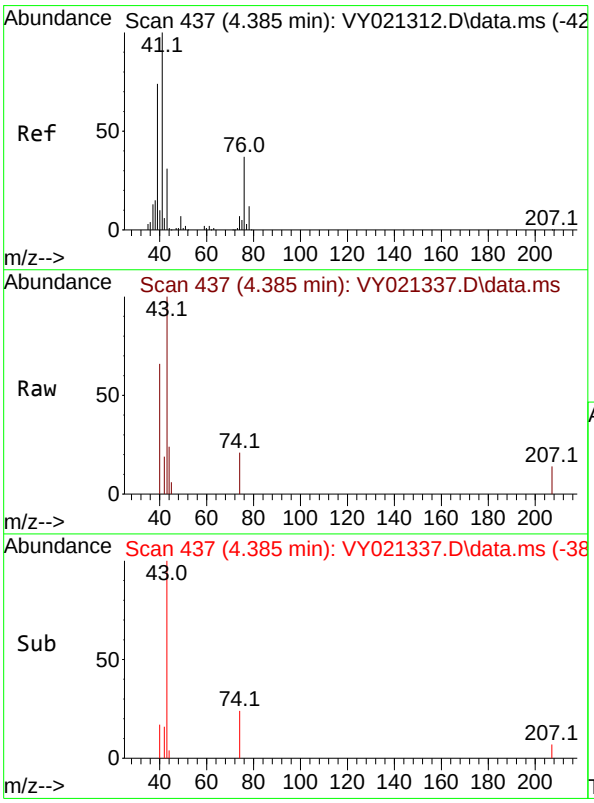
Ion	Ratio	Lower	Upper
43	100		
58	24.8	23.5	35.3



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

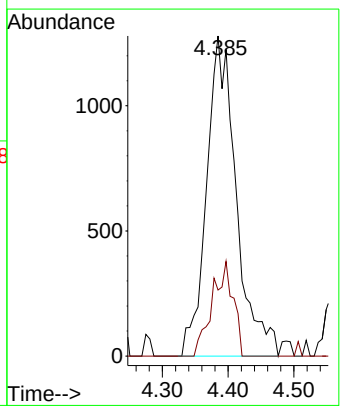
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

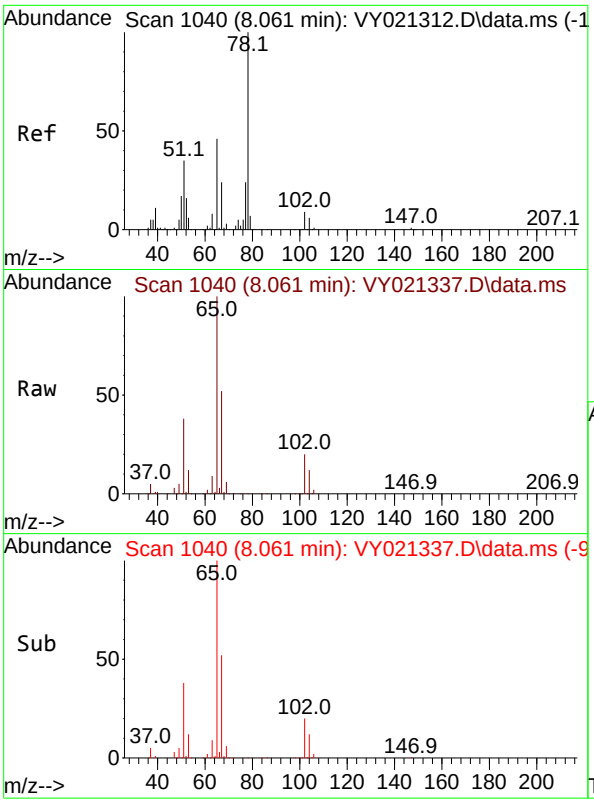


#18
Methyl Acetate
Concen: 2.762 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 43 Resp: 4019

Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.7	26.5

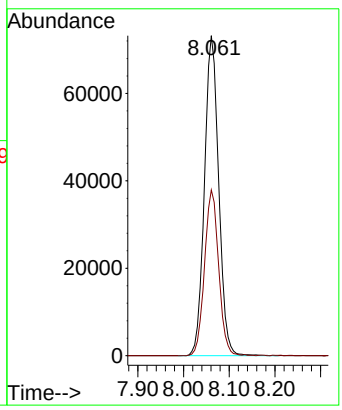




#33
1,2-Dichloroethane-d4
Concen: 50.981 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 65 Resp: 15823

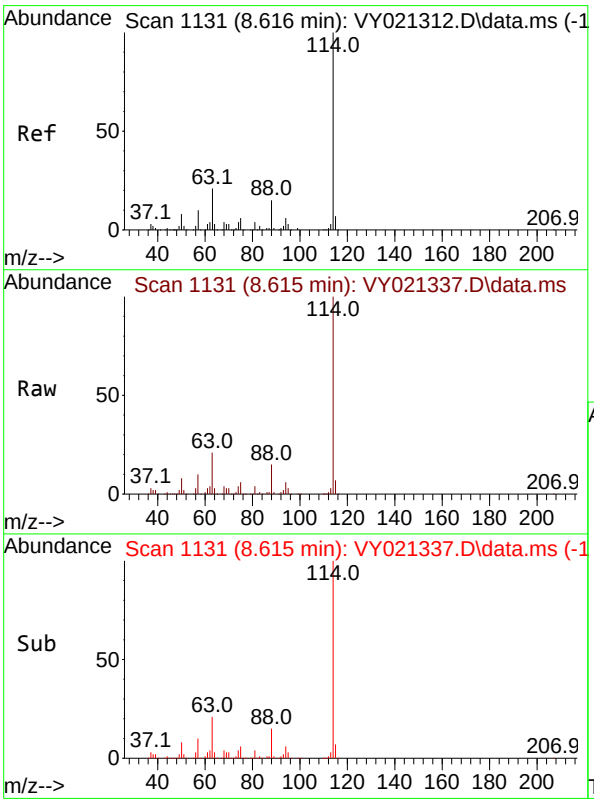
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.6



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

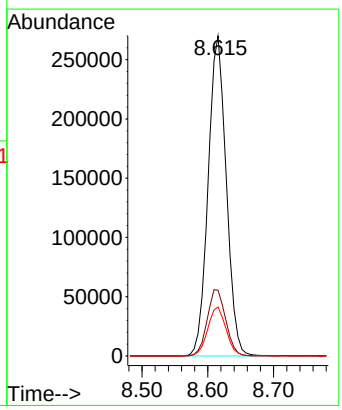
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:114 Resp: 518008

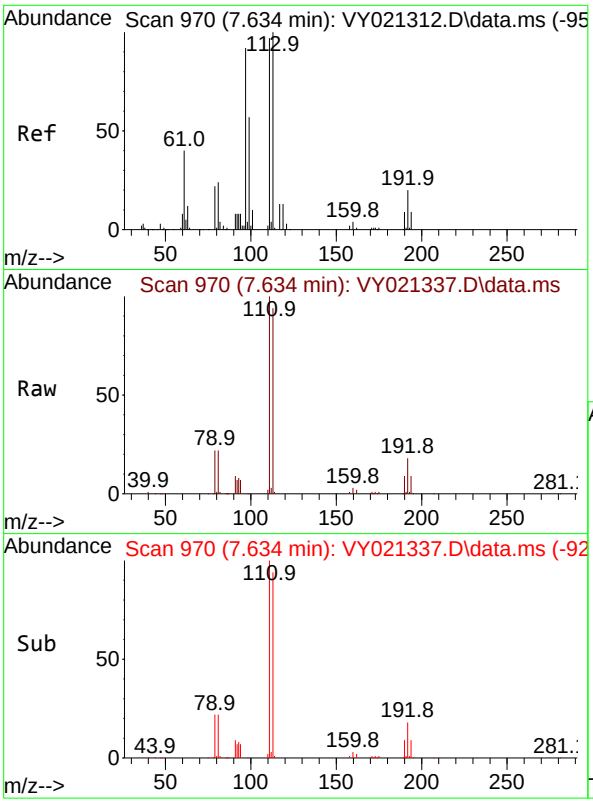
Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	42.2
88	15.3	0.0	29.8



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

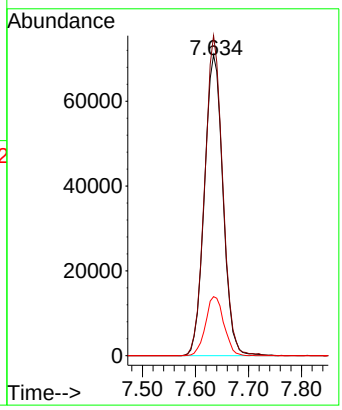
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

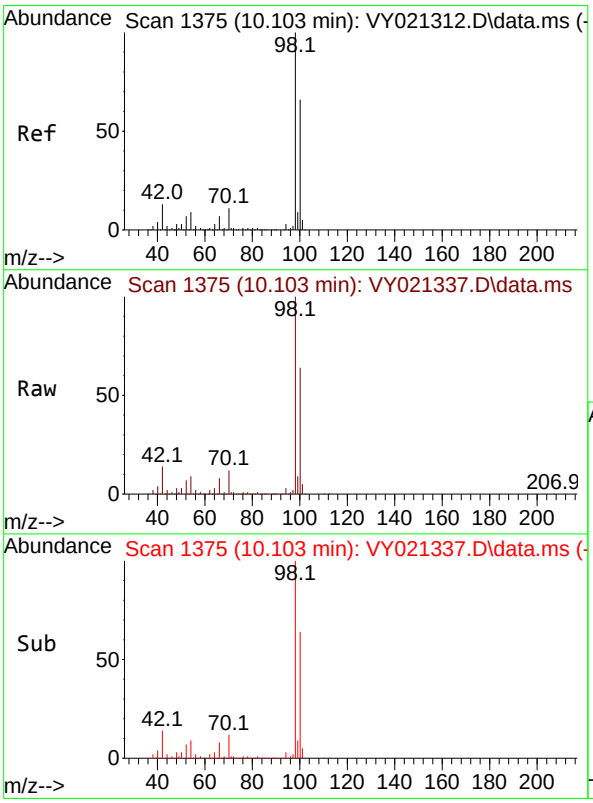


#35
Dibromofluoromethane
Concen: 50.546 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:113 Resp: 17165

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.0	121.6
192	19.5	15.8	23.8

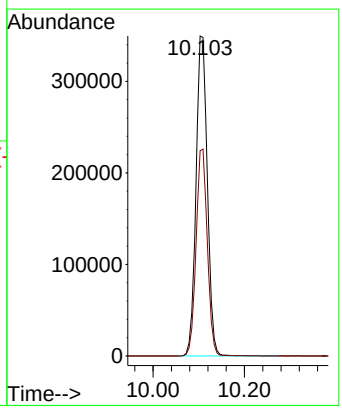


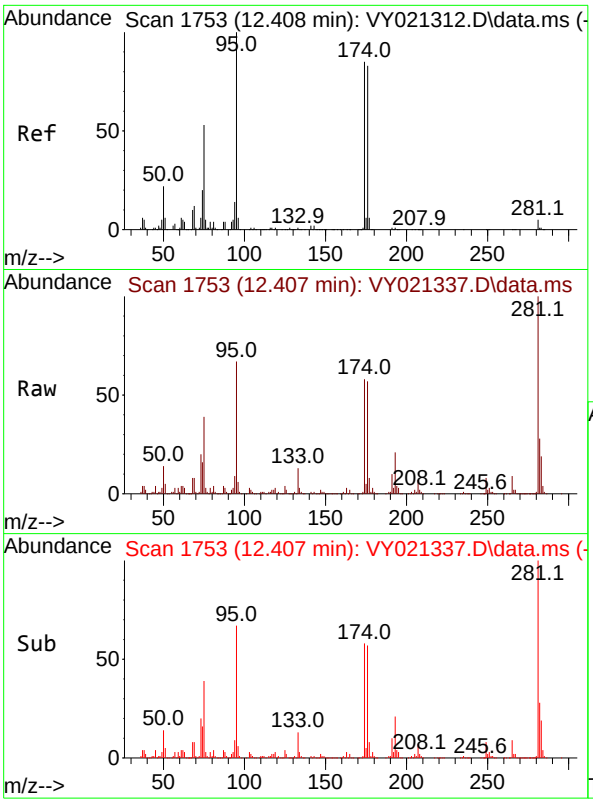


#50
Toluene-d8
Concen: 45.764 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 98 Resp: 600650

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.4	78.6

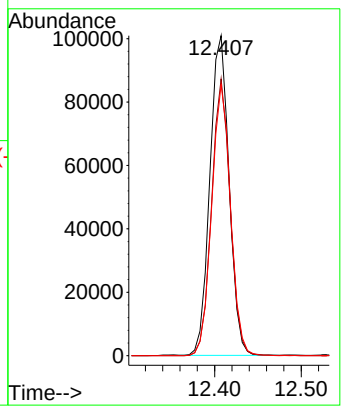




#62
4-Bromofluorobenzene
Concen: 35.210 ug/l
RT: 12.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion: 95 Resp: 15552

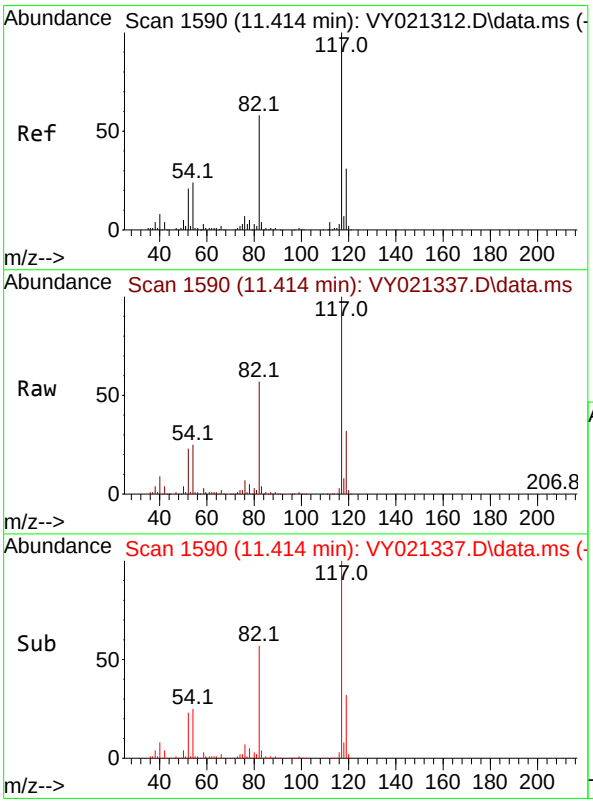
Ion	Ratio	Lower	Upper
95	100		
174	83.7	0.0	168.0
176	83.3	0.0	162.6



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

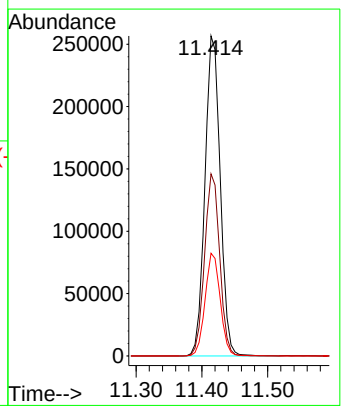
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

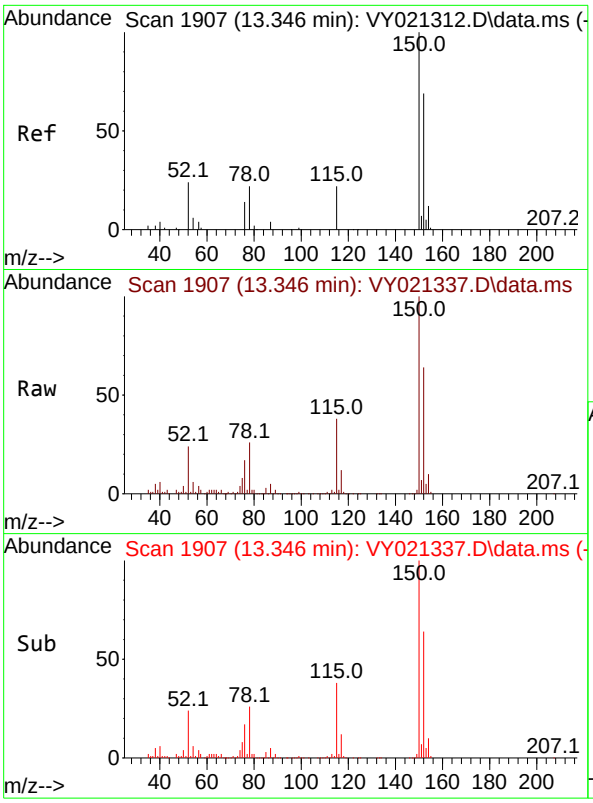


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:117 Resp: 414734

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.2	69.4
119	32.1	24.9	37.3

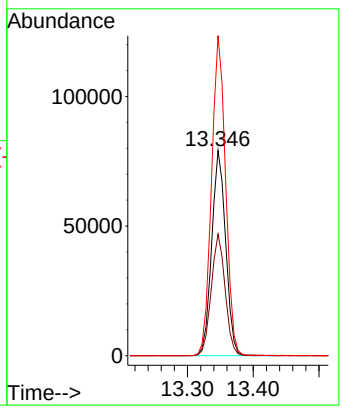




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021337.D
Acq: 26 Feb 2025 17:24

Tgt Ion:152 Resp: 11727

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.3	88.0
150	156.3	0.0	347.4



Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021337.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.489	118	126	141	rBV10	8192	29291	1.24%	0.218%
2	2.836	174	183	196	rBV	121288	266964	11.33%	1.991%
3	3.866	338	352	369	rBV3	31706	107599	4.57%	0.802%
4	4.128	384	395	412	rBV3	11011	42374	1.80%	0.316%
5	4.616	459	475	477	rBV3	21350	54710	2.32%	0.408%
6	4.708	478	490	504	rVB	654190	2168493	92.03%	16.171%
7	6.890	835	848	859	rBV	49725	158440	6.72%	1.182%
8	7.634	960	970	976	rBV	245494	586943	24.91%	4.377%
9	7.707	976	982	998	rVB	360940	823553	34.95%	6.142%
10	8.061	1030	1040	1050	rBV	202770	442527	18.78%	3.300%
11	8.615	1122	1131	1147	rBV	640715	1247420	52.94%	9.303%
12	10.103	1367	1375	1384	rBV	946407	1628176	69.10%	12.142%
13	10.511	1434	1442	1449	rBV	213707	399582	16.96%	2.980%
14	10.640	1457	1463	1469	rVB	50255	81726	3.47%	0.609%
15	10.877	1496	1502	1511	rBV	31355	55756	2.37%	0.416%
16	10.969	1511	1517	1524	rVB	41059	65803	2.79%	0.491%
17	11.200	1549	1555	1567	rVB	68250	113634	4.82%	0.847%
18	11.414	1583	1590	1600	rBV	827016	1331779	56.52%	9.932%
19	11.505	1600	1605	1610	rVB	15901	23771	1.01%	0.177%
20	11.639	1617	1627	1636	rBV4	44418	88612	3.76%	0.661%
21	11.932	1668	1675	1682	rBV9	12576	34550	1.47%	0.258%
22	12.414	1747	1754	1764	rVB2	1235229	2356299	100.00%	17.572%
23	12.731	1801	1806	1812	rVV2	81523	122601	5.20%	0.914%
24	13.243	1881	1890	1894	rBV6	17482	44390	1.88%	0.331%
25	13.346	1898	1907	1914	rVB	497467	775885	32.93%	5.786%
26	13.676	1954	1961	1965	rBV4	54172	91958	3.90%	0.686%
27	13.889	1989	1996	2003	rVB2	107572	178791	7.59%	1.333%
28	14.175	2037	2043	2050	rBV5	21735	50260	2.13%	0.375%
29	14.535	2097	2102	2108	rVB2	26690	37535	1.59%	0.280%

Sum of corrected areas: 13409422

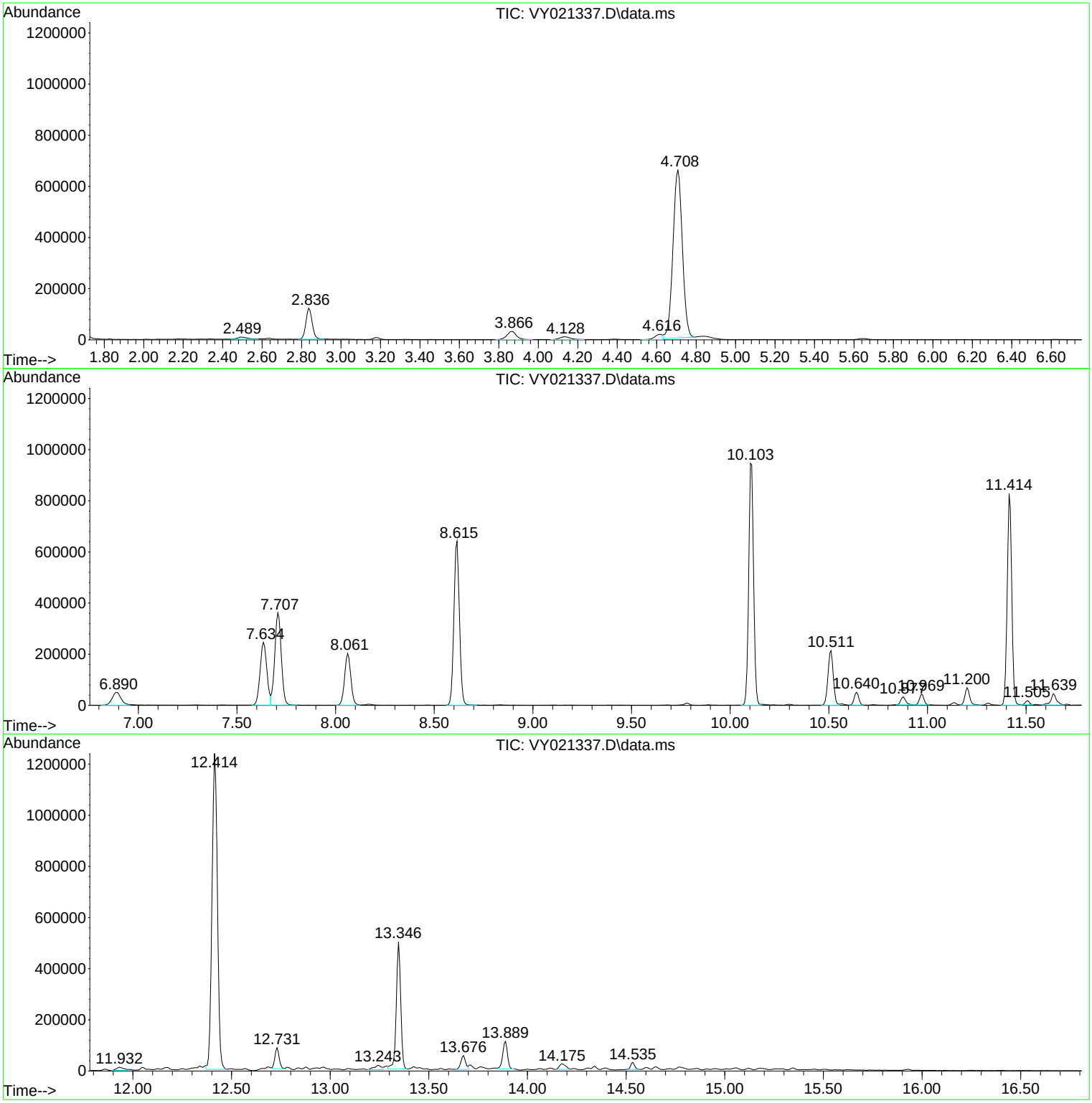
Sample Results: **VY021337.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

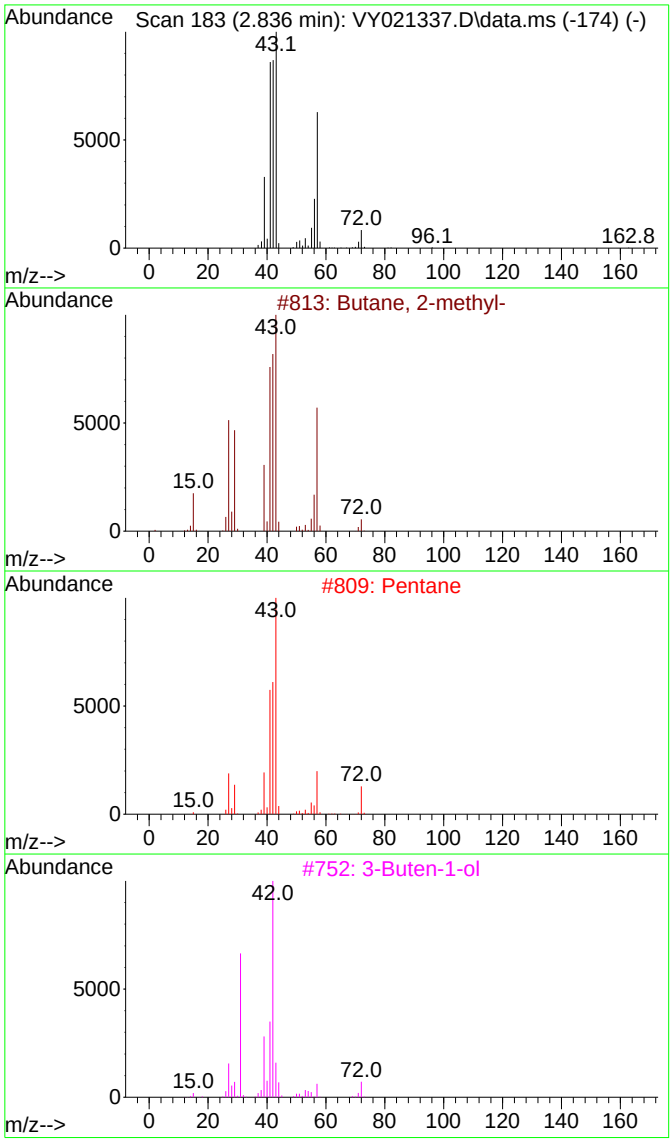
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

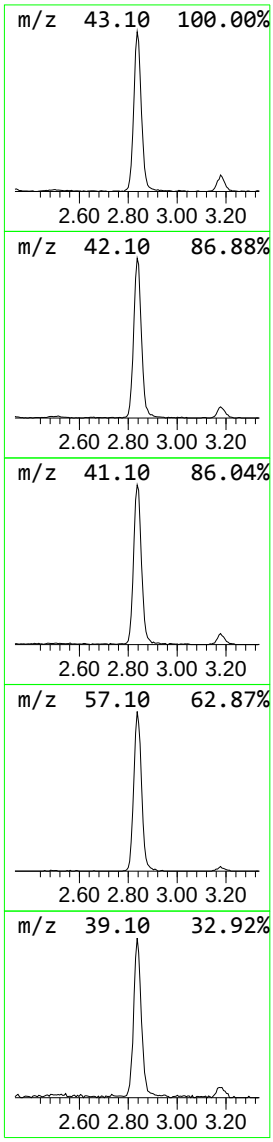
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.836	16.21 ug/l	266964	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	86
2	Pentane	72	C5H12	000109-66-0	59
3	3-Buten-1-ol	72	C4H8O	000627-27-0	47
4	1-Butene	56	C4H8	000106-98-9	14
5	Propane, 2-methyl-1-nitro-	103	C4H9NO2	000625-74-1	10





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

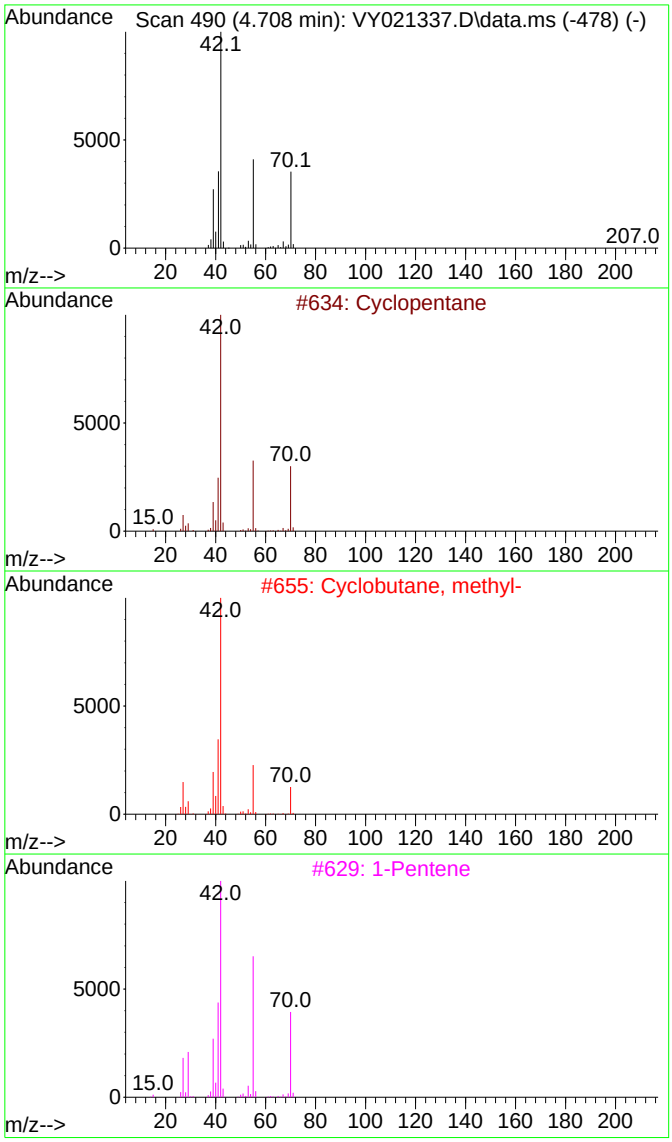
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Quant Title : SW846 8260

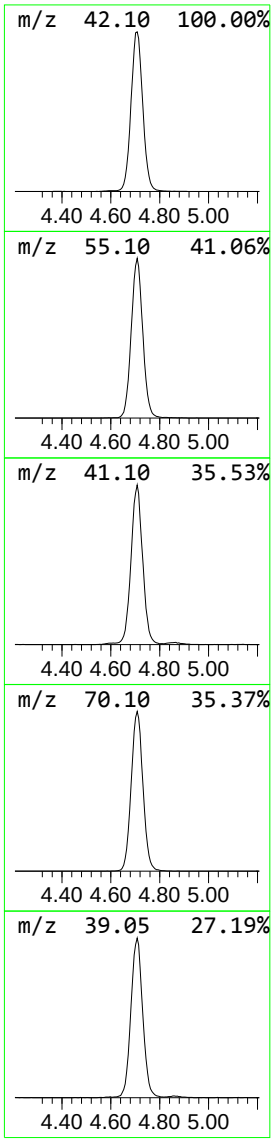
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Cyclopentane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.708	131.66 ug/l	2168490	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	90
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	86
3	1-Pentene	70	C5H10	000109-67-1	49
4	Cyclopropane, ethyl-	70	C5H10	001191-96-4	39
5	Methyl propargyl ether	70	C4H6O	000627-41-8	9





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

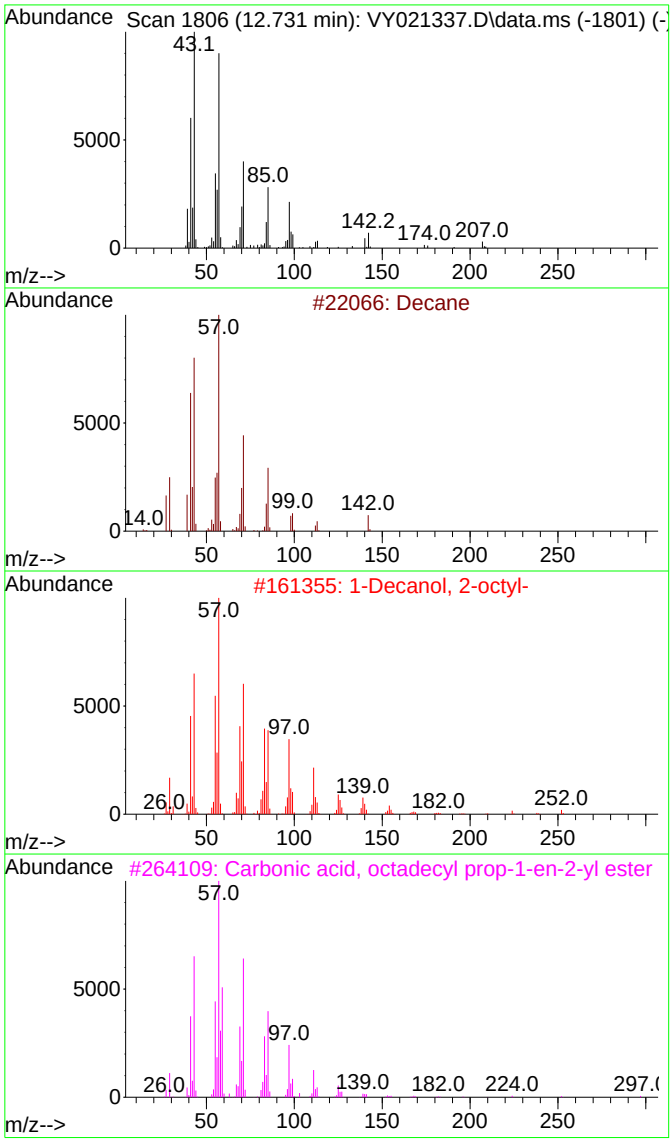
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

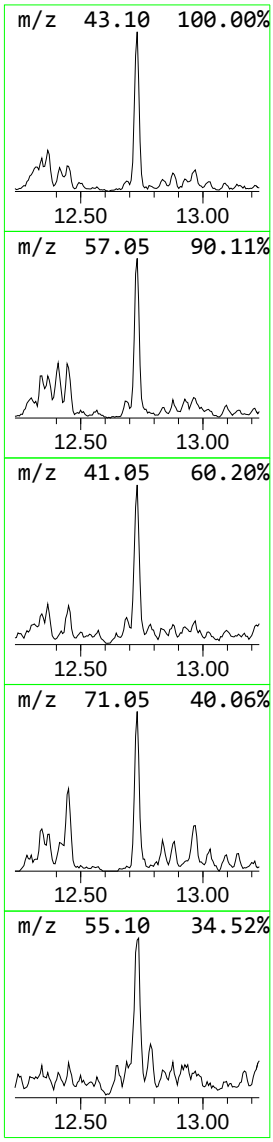
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Peak Number 5 Decane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.731	7.90 ug/l	122601	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	95
2	1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	78
3	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	72
4	Carbonic acid, dodecyl vinyl ester	256	C15H28O3	1000382-54-8	59
5	Undecane	156	C11H24	001120-21-4	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

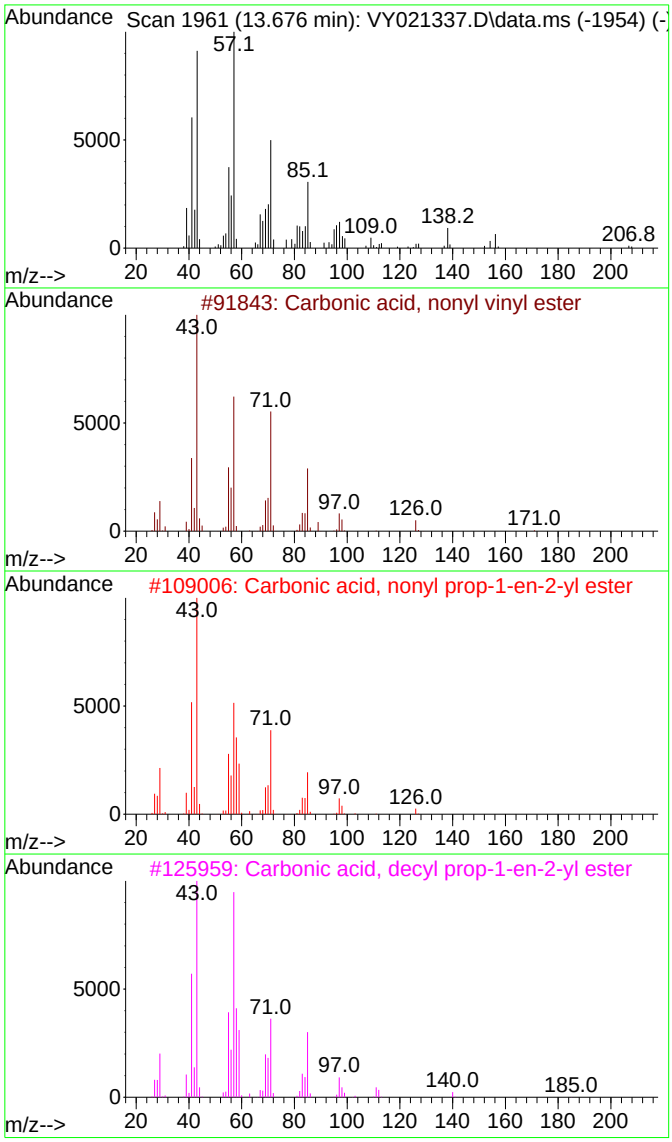
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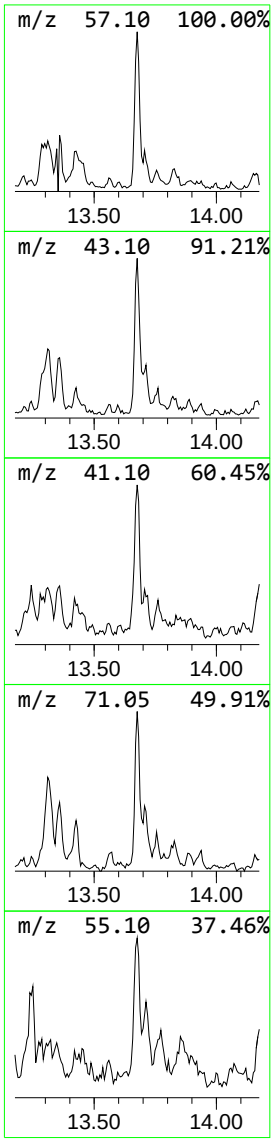
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Carbonic acid, nonyl vinyl ... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.676	5.93 ug/l	91958	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	64
2	Carbonic acid, nonyl prop-1-en-2...	228	C13H24O3	1000382-53-9	64
3	Carbonic acid, decyl prop-1-en-2...	242	C14H26O3	1000382-90-5	59
4	Undecane	156	C11H24	001120-21-4	58
5	Carbonic acid, octyl vinyl ester	200	C11H20O3	1000383-25-5	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021337.D
Acq On : 26 Feb 2025 17:24
Operator : SY/MD
Sample : Q1415-04
Misc : 6.05g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-172-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methyl-	2.836	16.2	ug/l	266964	1	7.707	823553	50.0
Cyclopentane	4.708	131.7	ug/l	2168490	1	7.707	823553	50.0
Decane	12.731	7.9	ug/l	122601	4	13.346	775885	50.0
Carbonic acid, ...	13.676	5.9	ug/l	91958	4	13.346	775885	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Time: Feb 25 23:33:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

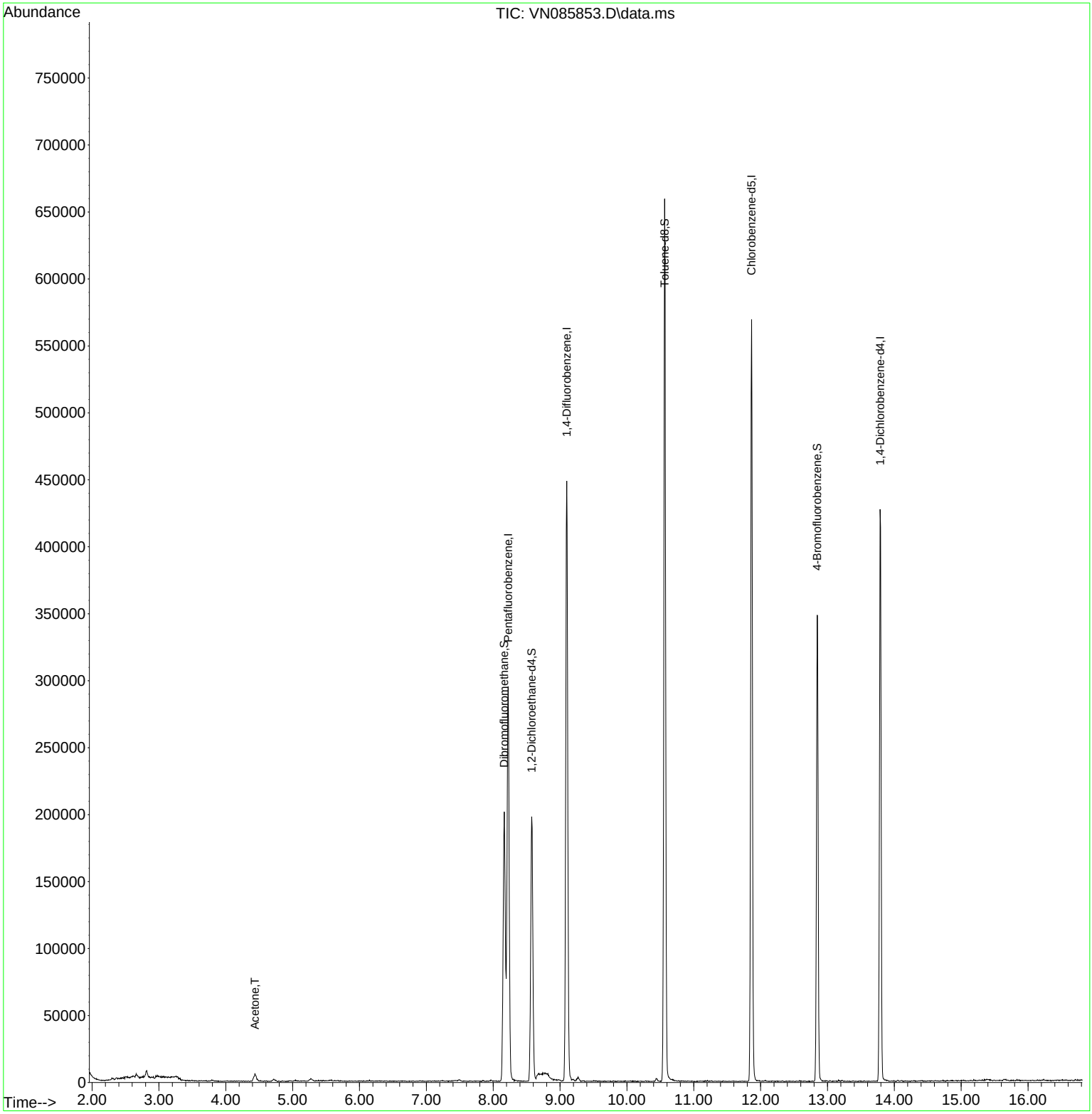
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	210441	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	393207	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121445	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	162083	59.408	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.820%			
35) Dibromofluoromethane	8.165	113	142826	55.510	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.020%			
50) Toluene-d8	10.565	98	459744	49.112	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.220%			
62) 4-Bromofluorobenzene	12.847	95	124996	40.526	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 81.060%			
Target Compounds						Qvalue
16) Acetone	4.436	43	10019	11.606	ug/l	91

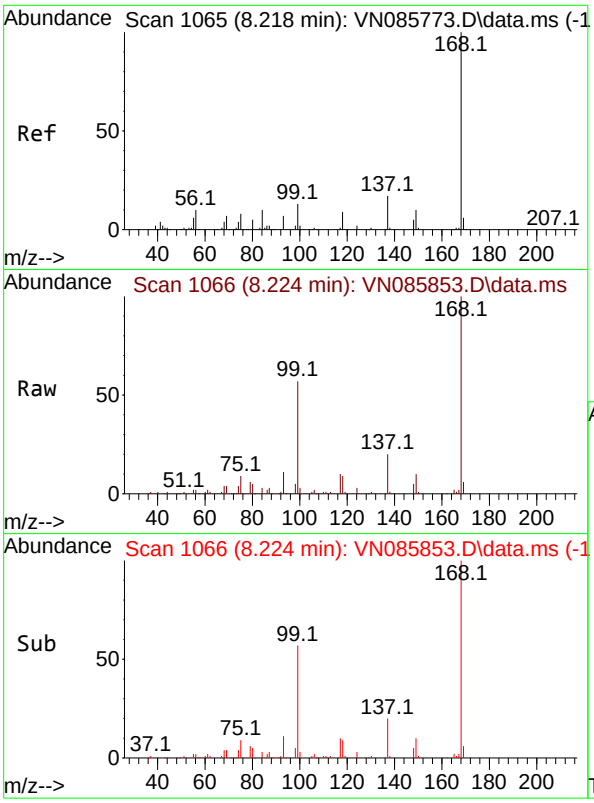
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Time: Feb 25 23:33:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



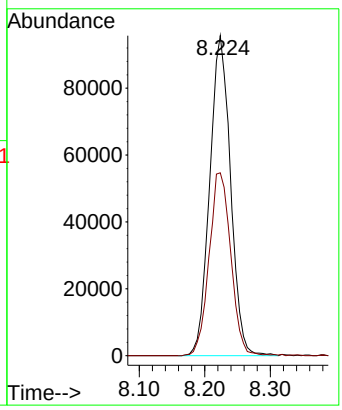


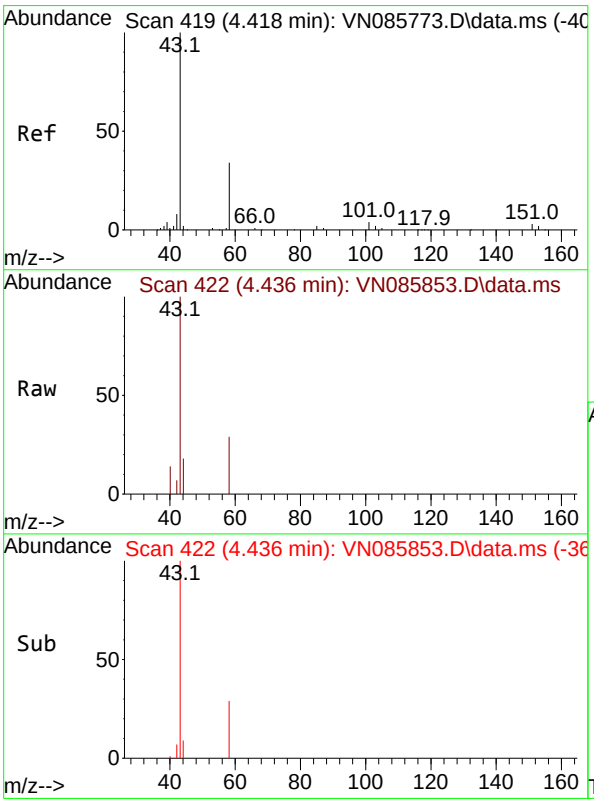
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion:168 Resp: 210441

Ion	Ratio	Lower	Upper
168	100		
99	57.1	47.9	71.9

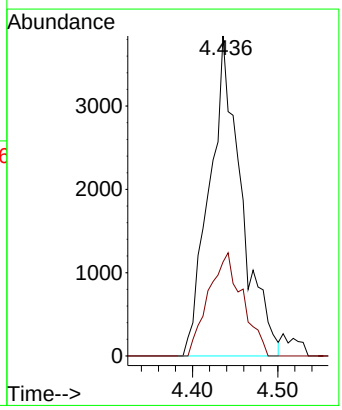


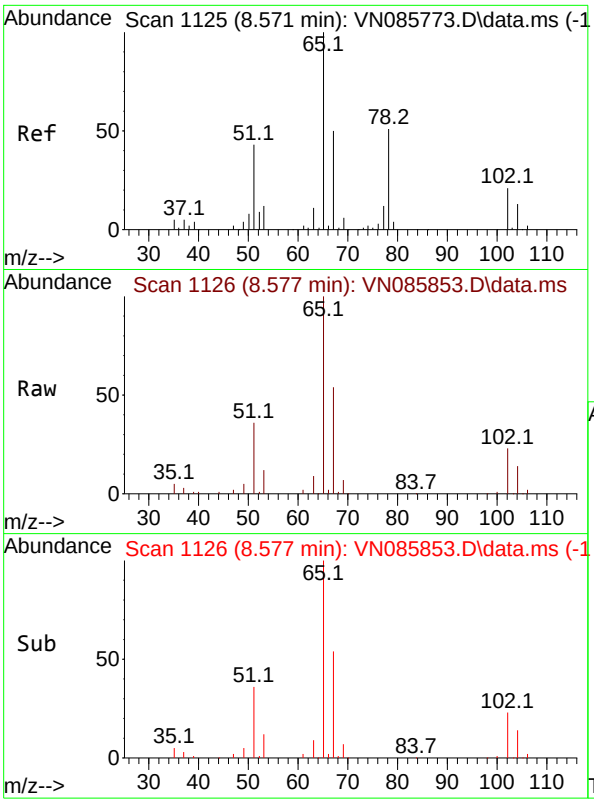


#16
Acetone
Concen: 11.606 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion: 43 Resp: 10019

Ion	Ratio	Lower	Upper
43	100		
58	29.4	27.5	41.3



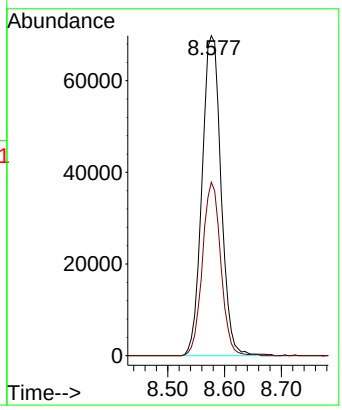


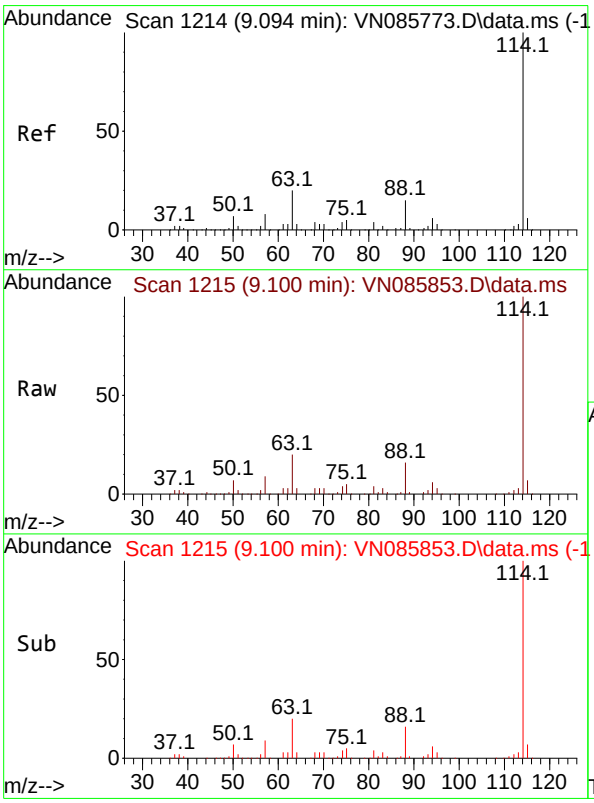
#33
1,2-Dichloroethane-d4
Concen: 59.408 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion: 65 Resp: 162083

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.2

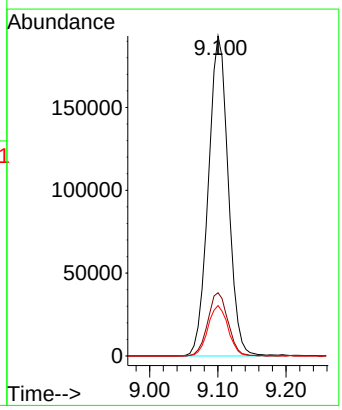


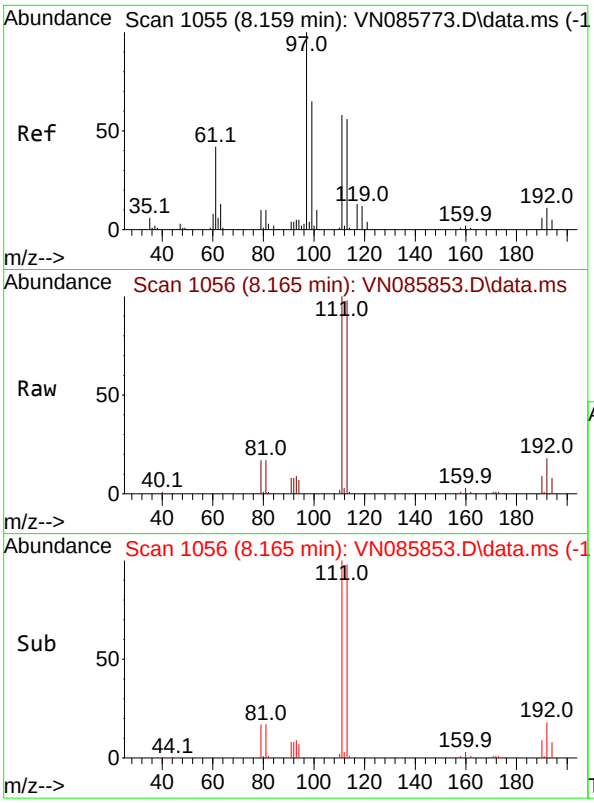


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion:114 Resp: 393207

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.2
88	15.8	0.0	30.0



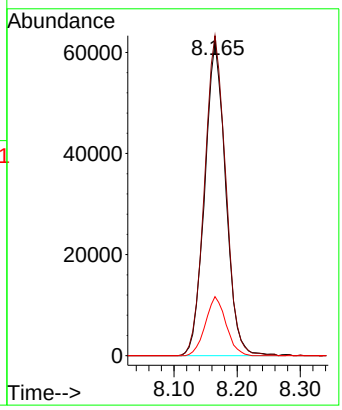


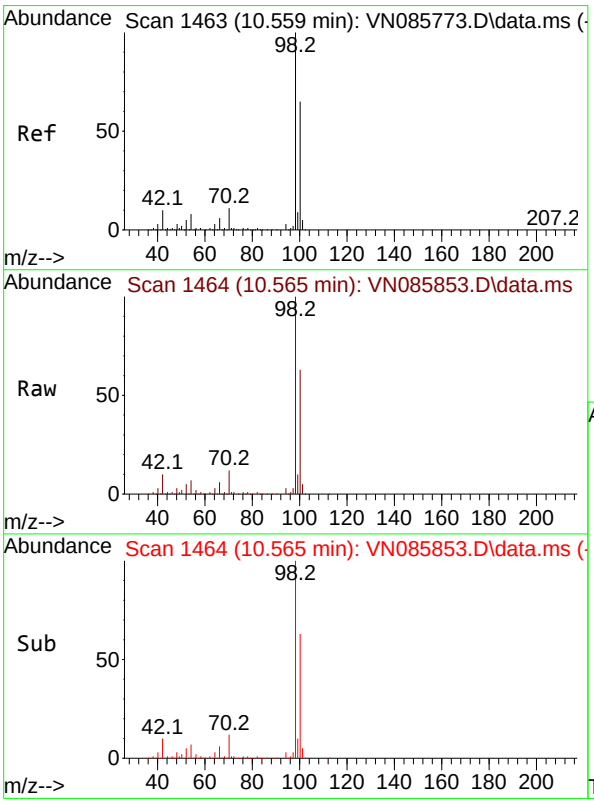
#35
Dibromofluoromethane
Concen: 55.510 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion:113 Resp: 142826

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	18.6	14.7	22.1

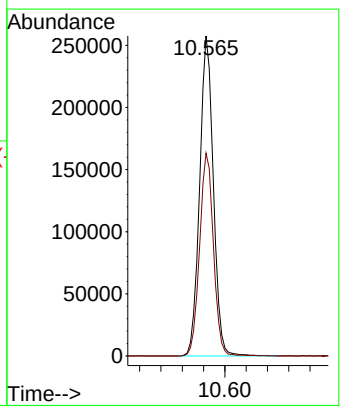


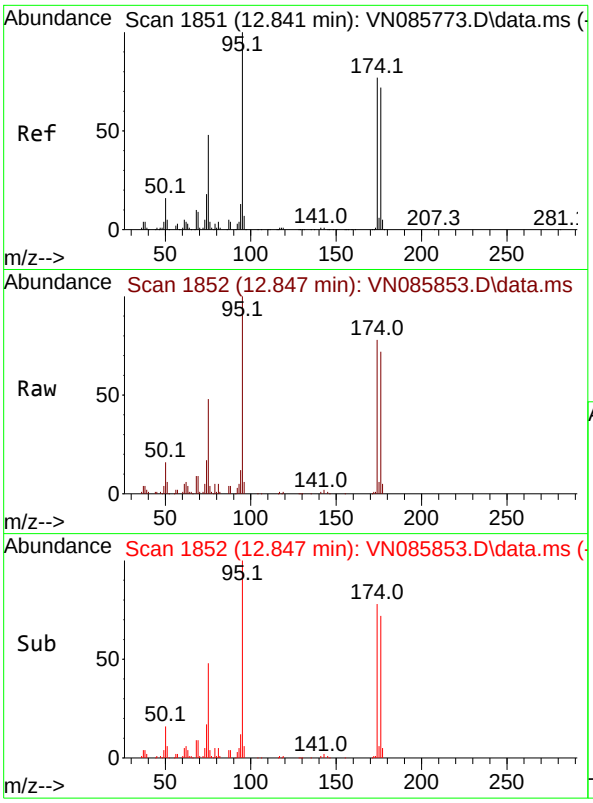


#50
Toluene-d8
Concen: 49.112 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion: 98 Resp: 459744

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.1	78.1



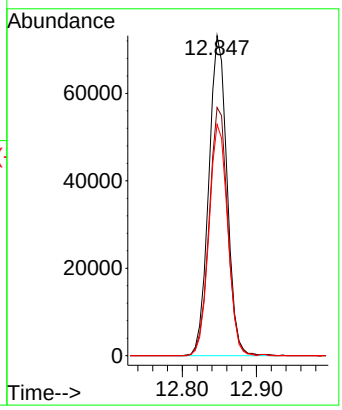


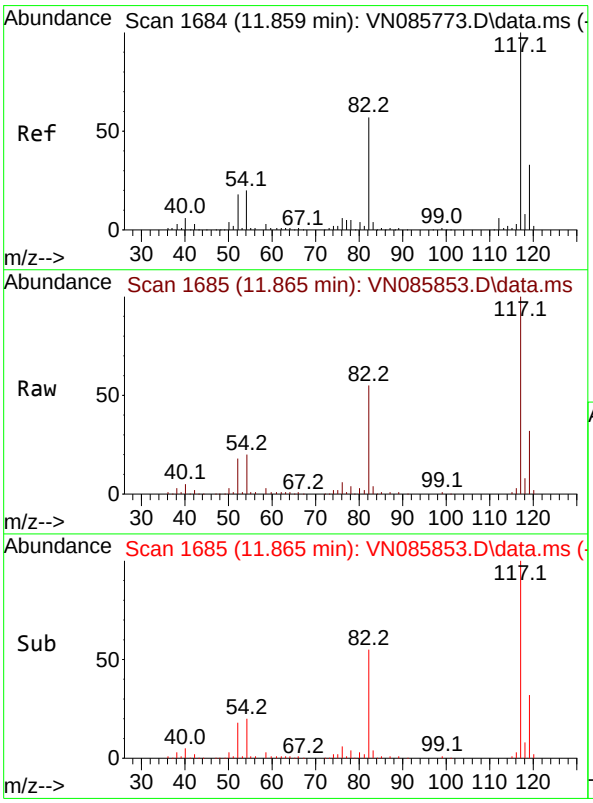
#62
4-Bromofluorobenzene
Concen: 40.526 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion: 95 Resp: 124996

Ion	Ratio	Lower	Upper
95	100		
174	79.2	0.0	152.4
176	73.9	0.0	146.6

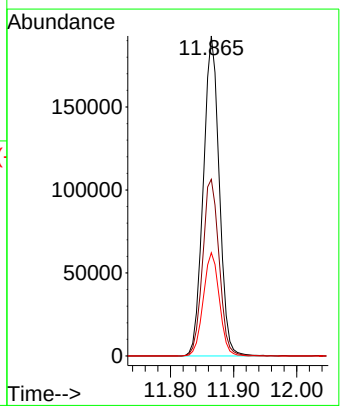


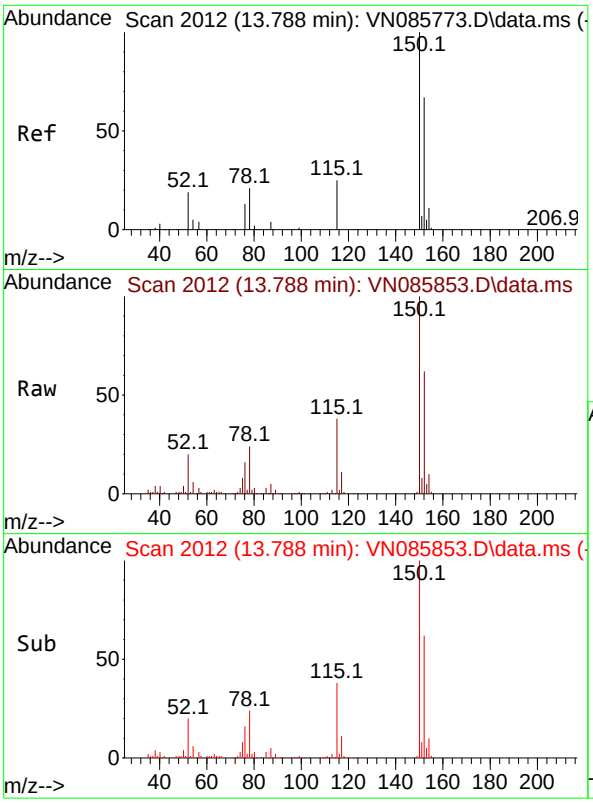


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Tgt Ion:117 Resp: 337792

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.7	68.5
119	32.2	26.2	39.2



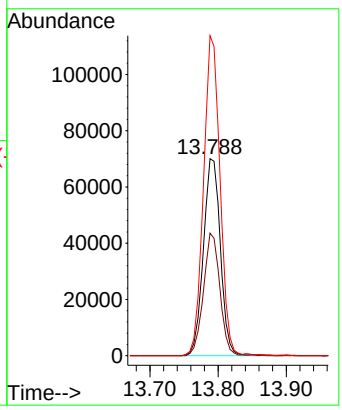


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN085853.D
Acq: 25 Feb 2025 13:36

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Tgt Ion:152 Resp: 121445

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.4	91.3
150	158.3	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085853.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.436	414	422	433	rBV2	5606	15522	1.31%	0.259%
2	8.165	1045	1056	1061	rBV	201248	473137	39.98%	7.883%
3	8.224	1061	1066	1077	rVB	293782	636495	53.78%	10.605%
4	8.577	1117	1126	1137	rBV	197513	443481	37.47%	7.389%
5	9.100	1205	1215	1227	rBV	448001	918122	77.58%	15.297%
6	10.565	1455	1464	1480	rBV	659016	1183494	100.00%	19.719%
7	11.865	1676	1685	1698	rBV	568781	1009063	85.26%	16.812%
8	12.847	1842	1852	1865	rBV	348267	601799	50.85%	10.027%
9	13.788	2005	2012	2021	rBV	426992	720821	60.91%	12.010%

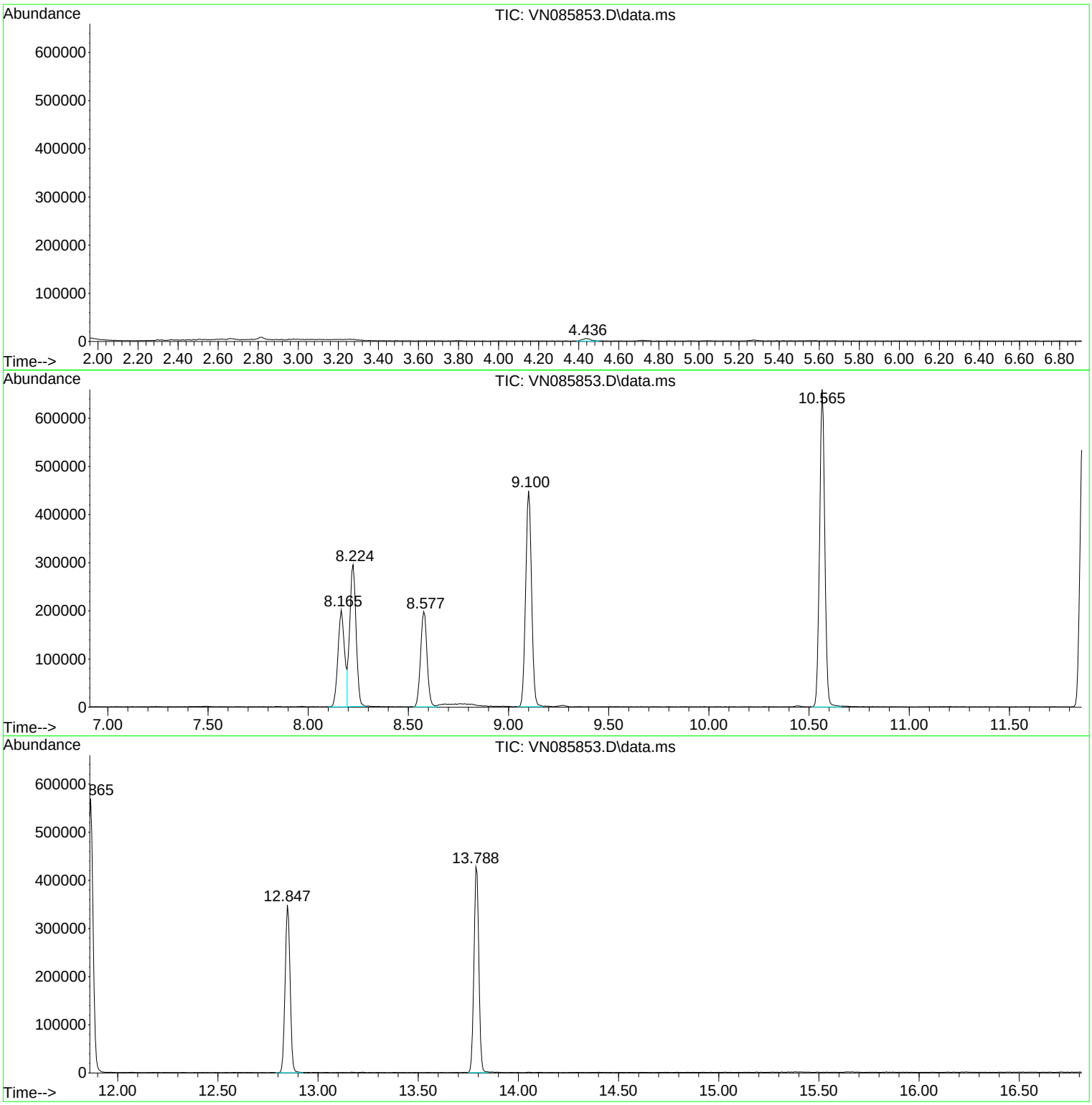
Sum of corrected areas: 6001934

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085853.D
Acq On : 25 Feb 2025 13:36
Operator : JC\MD
Sample : Q1415-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB02222025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Time: Feb 25 01:58:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

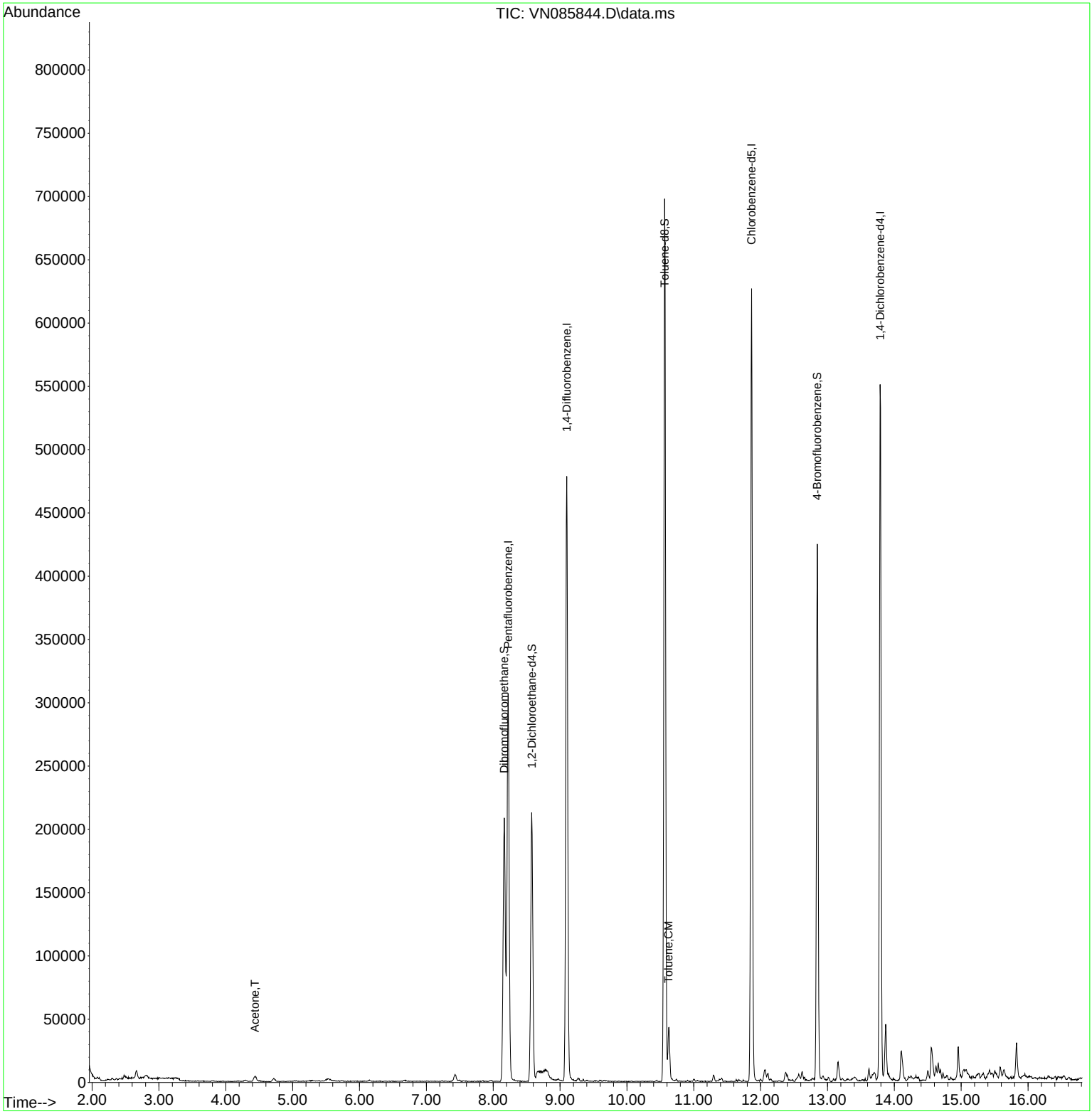
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	217128	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	416577	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	372406	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157372	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	170001	60.391	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.780%			
35) Dibromofluoromethane	8.165	113	151695	55.650	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.300%			
50) Toluene-d8	10.565	98	493499	49.760	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.520%			
62) 4-Bromofluorobenzene	12.847	95	152352	46.625	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.240%			
Target Compounds						Qvalue
16) Acetone	4.436	43	8069	9.059	ug/l	93
52) Toluene	10.623	92	18152	2.504	ug/l	97

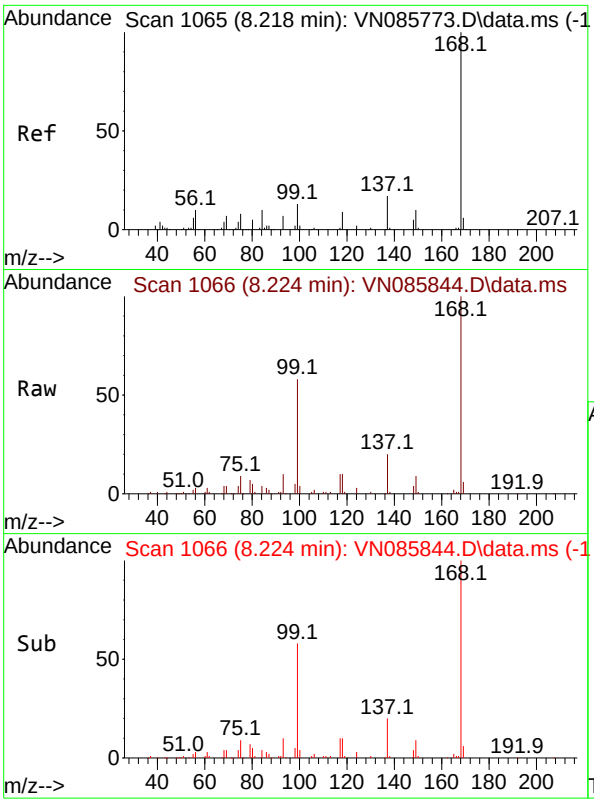
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Time: Feb 25 01:58:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



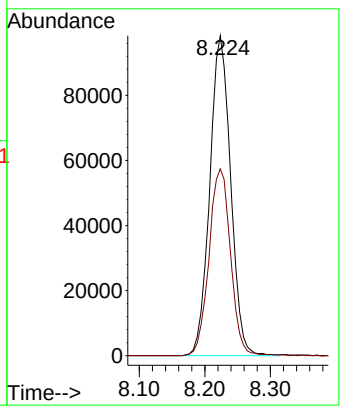


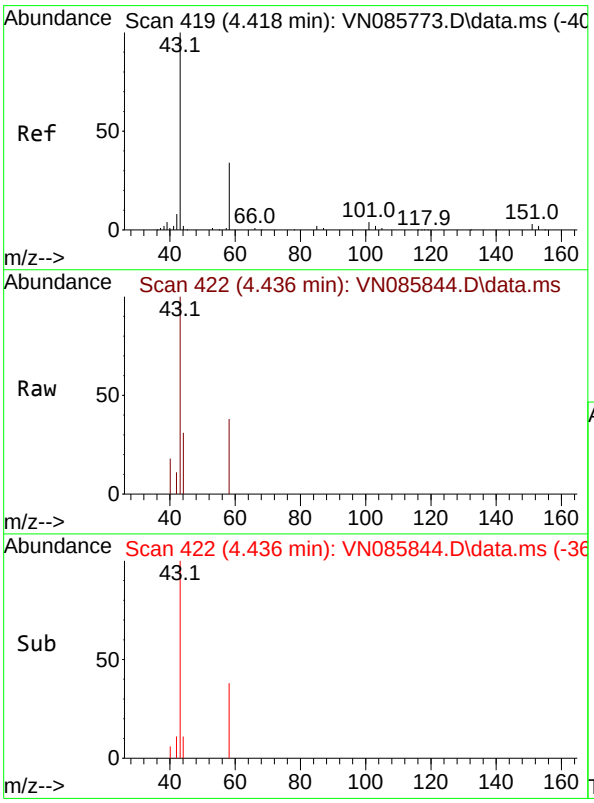
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion:168 Resp: 217128

Ion	Ratio	Lower	Upper
168	100		
99	58.4	47.9	71.9

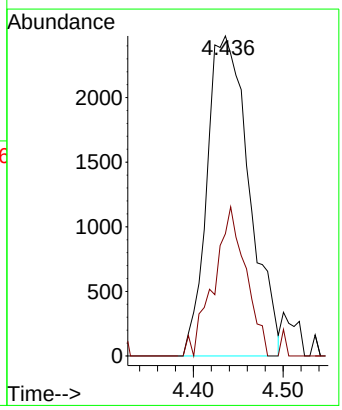


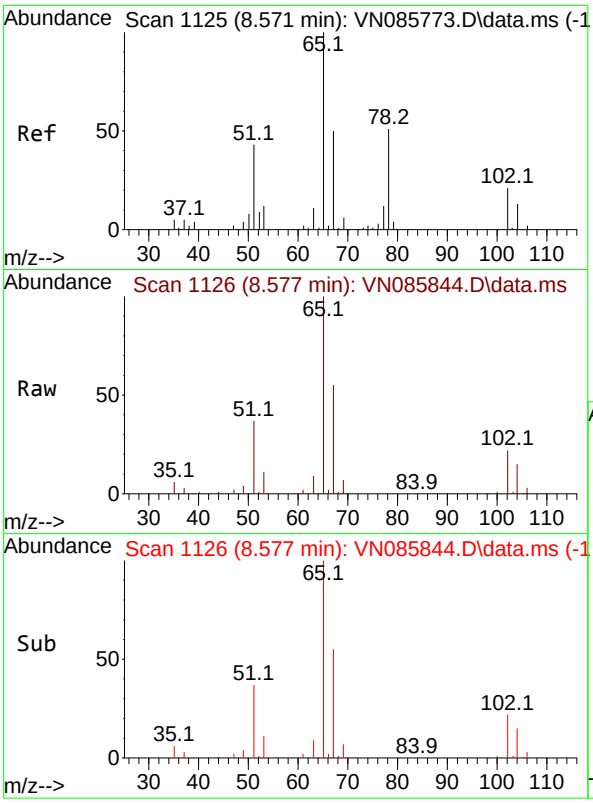


#16
Acetone
Concen: 9.059 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 43 Resp: 8069

Ion	Ratio	Lower	Upper
43	100		
58	38.2	27.5	41.3



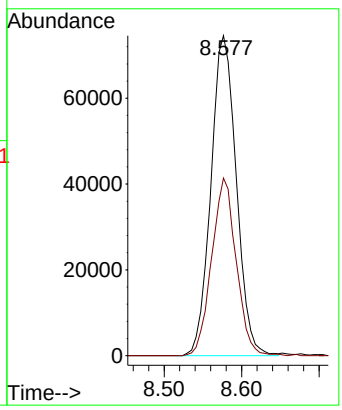


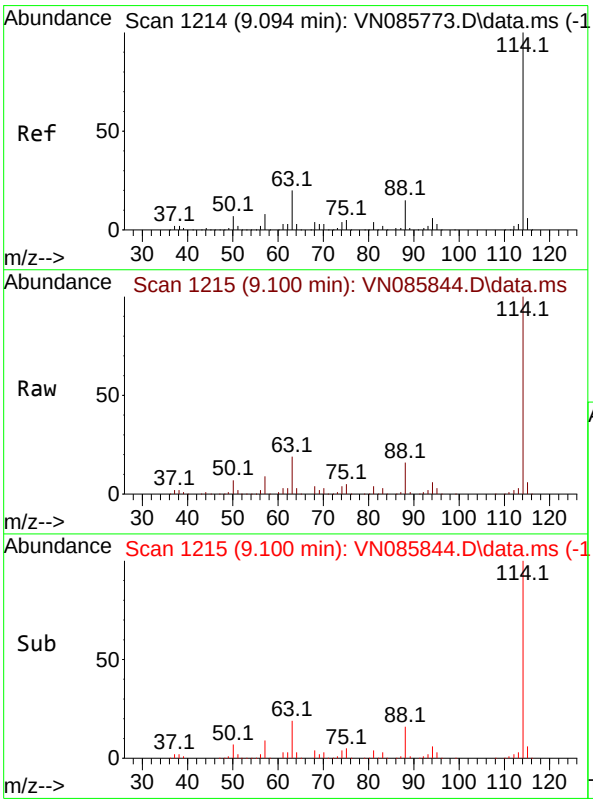
#33
1,2-Dichloroethane-d4
Concen: 60.391 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion: 65 Resp: 170001

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.2

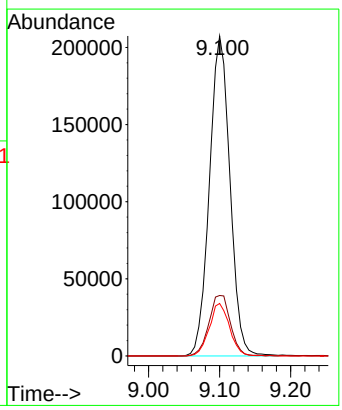




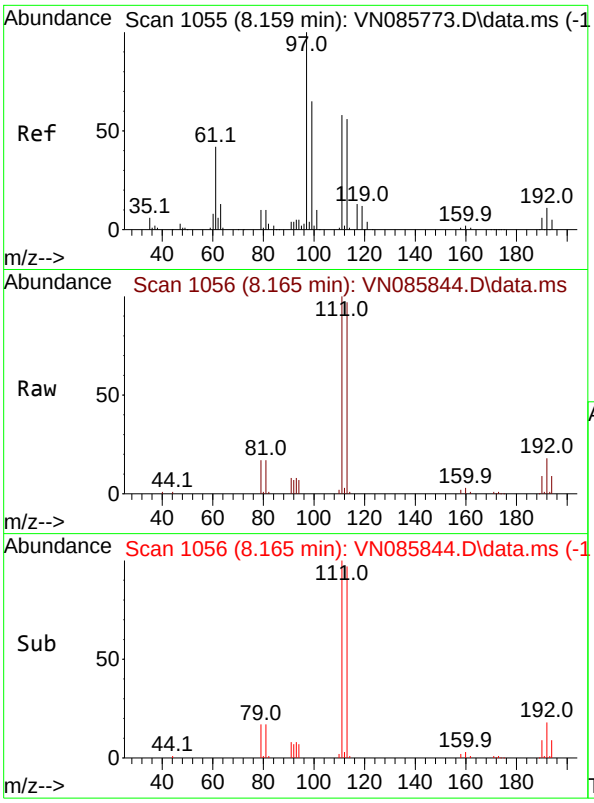
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion:114 Resp: 416577

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	39.2
88	16.4	0.0	30.0



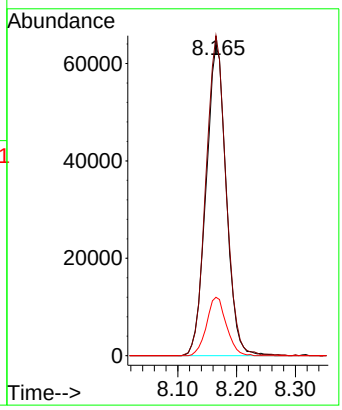
Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

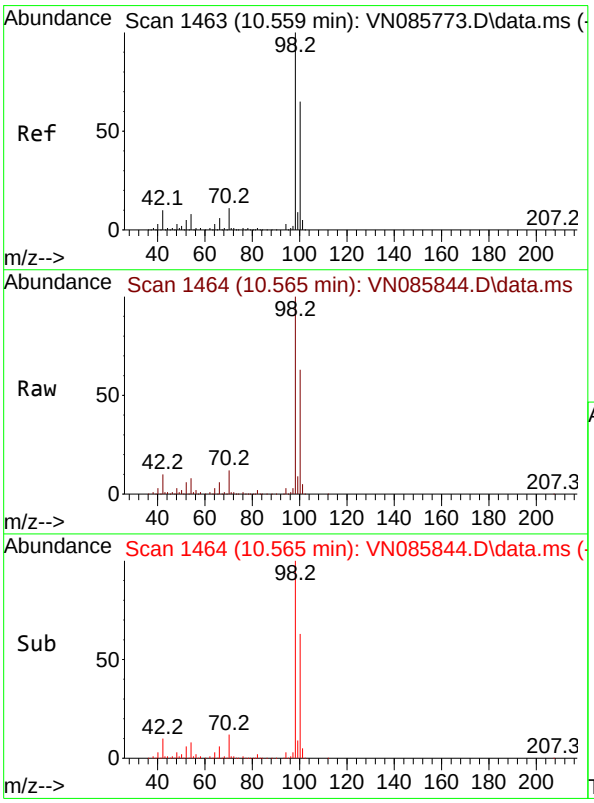


#35
Dibromofluoromethane
Concen: 55.650 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion:113 Resp: 151695

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	18.5	14.7	22.1

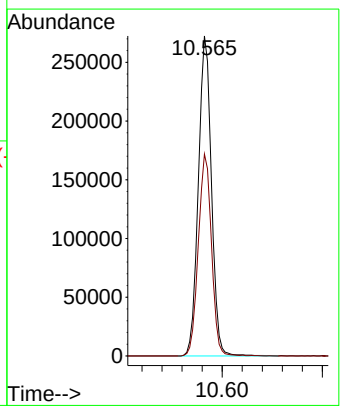


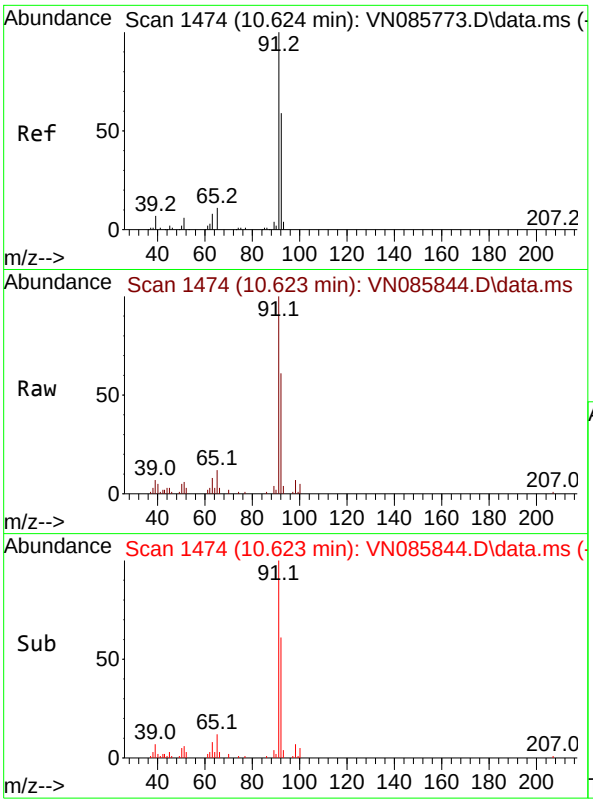


#50
Toluene-d8
Concen: 49.760 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 98 Resp: 493499

Ion	Ratio	Lower	Upper
98	100		
100	63.6	52.1	78.1



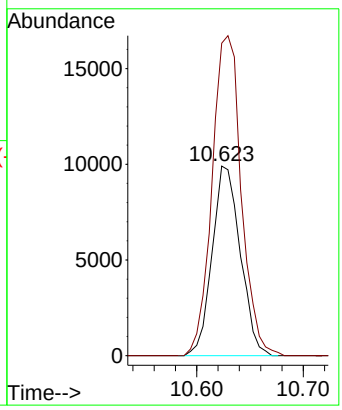


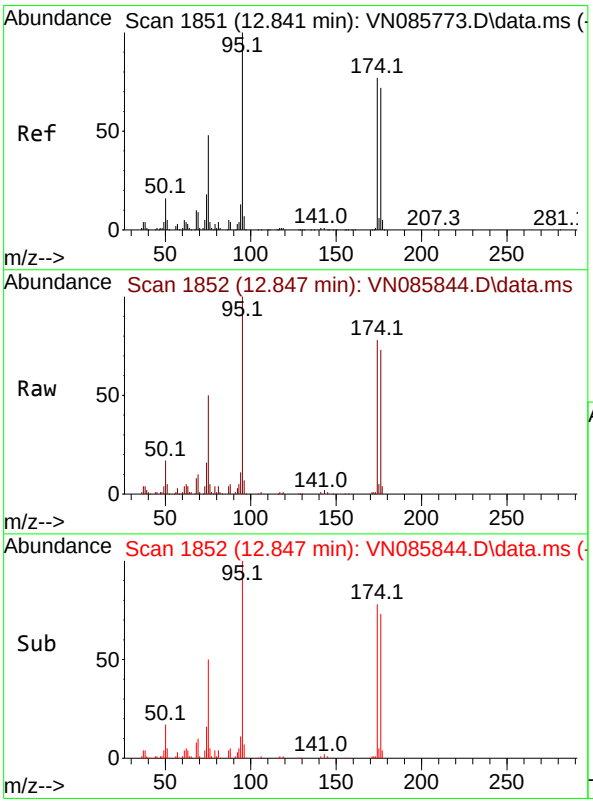
#52
Toluene
Concen: 2.504 ug/l
RT: 10.623 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Tgt Ion: 92 Resp: 18152

Ion	Ratio	Lower	Upper
92	100		
91	175.6	136.9	205.3

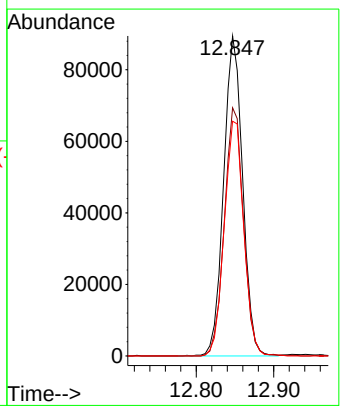




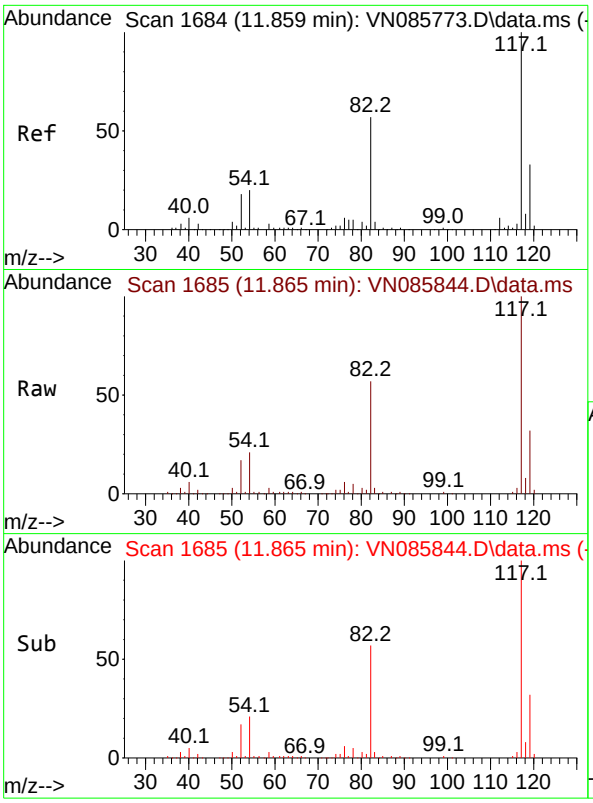
#62
4-Bromofluorobenzene
Concen: 46.625 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion: 95 Resp: 152352

Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	152.4
176	75.6	0.0	146.6



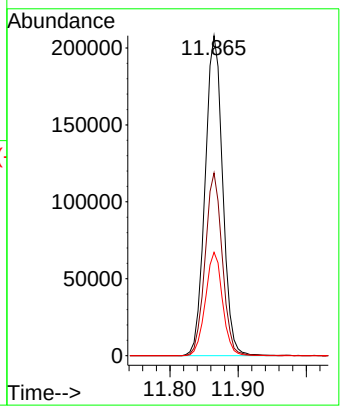
Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

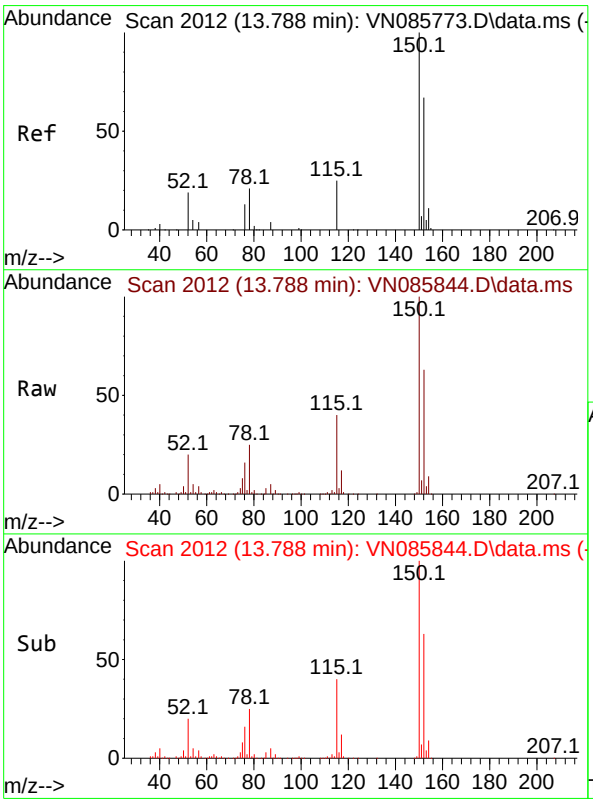


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion:117 Resp: 372406

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.7	68.5
119	32.3	26.2	39.2

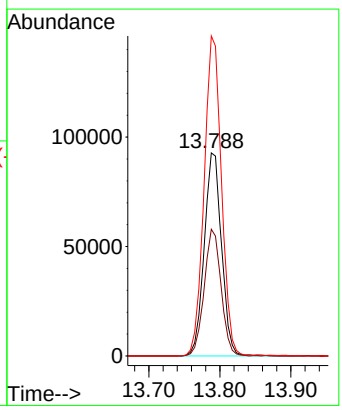




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085844.D
Acq: 24 Feb 2025 18:02

Tgt Ion:152 Resp: 157372

Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.4	91.3
150	157.9	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085844.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.665	114	121	129	rVB2	6545	14416	1.14%	0.199%
2	8.165	1046	1056	1061	rBV	208270	500911	39.47%	6.911%
3	8.224	1061	1066	1081	rVB	305900	661805	52.15%	9.131%
4	8.577	1117	1126	1136	rBV	212487	474513	37.39%	6.547%
5	8.671	1136	1142	1145	rBV6	5323	12793	1.01%	0.177%
6	9.100	1205	1215	1231	rBV	477739	972197	76.61%	13.414%
7	10.565	1455	1464	1471	rBV	697460	1269041	100.00%	17.510%
8	10.629	1471	1475	1482	rVB	41046	75828	5.98%	1.046%
9	11.865	1676	1685	1699	rBV	626446	1103234	86.93%	15.222%
10	12.070	1712	1720	1723	rBV5	9160	21391	1.69%	0.295%
11	12.376	1764	1772	1775	rBV6	7192	14778	1.16%	0.204%
12	12.570	1794	1805	1810	rBV8	5858	16576	1.31%	0.229%
13	12.847	1845	1852	1860	rBV	423284	732561	57.73%	10.107%
14	13.159	1899	1905	1912	rBV4	14441	27647	2.18%	0.381%
15	13.623	1978	1984	1988	rBV4	9909	16723	1.32%	0.231%
16	13.700	1993	1997	2002	rVB7	5881	13021	1.03%	0.180%
17	13.788	2002	2012	2020	rBV	549484	937387	73.87%	12.934%
18	13.870	2020	2026	2033	rVV2	40847	69618	5.49%	0.961%
19	14.106	2059	2066	2074	rBV6	23326	53675	4.23%	0.741%
20	14.500	2128	2133	2138	rBV5	7642	14287	1.13%	0.197%
21	14.553	2138	2142	2150	rVV6	25395	56191	4.43%	0.775%
22	14.623	2150	2154	2157	rVV5	10047	16850	1.33%	0.232%
23	14.658	2157	2160	2163	rVV3	12021	17408	1.37%	0.240%
24	14.958	2202	2211	2216	rBV4	25862	46066	3.63%	0.636%
25	15.047	2219	2226	2227	rBV4	6510	12728	1.00%	0.176%
26	15.423	2280	2290	2294	rBV7	7264	19298	1.52%	0.266%
27	15.506	2300	2304	2313	rVB6	5797	13031	1.03%	0.180%
28	15.582	2313	2317	2322	rBV5	8719	14658	1.16%	0.202%
29	15.829	2352	2359	2366	rBV2	28061	49090	3.87%	0.677%

Sum of corrected areas: 7247722

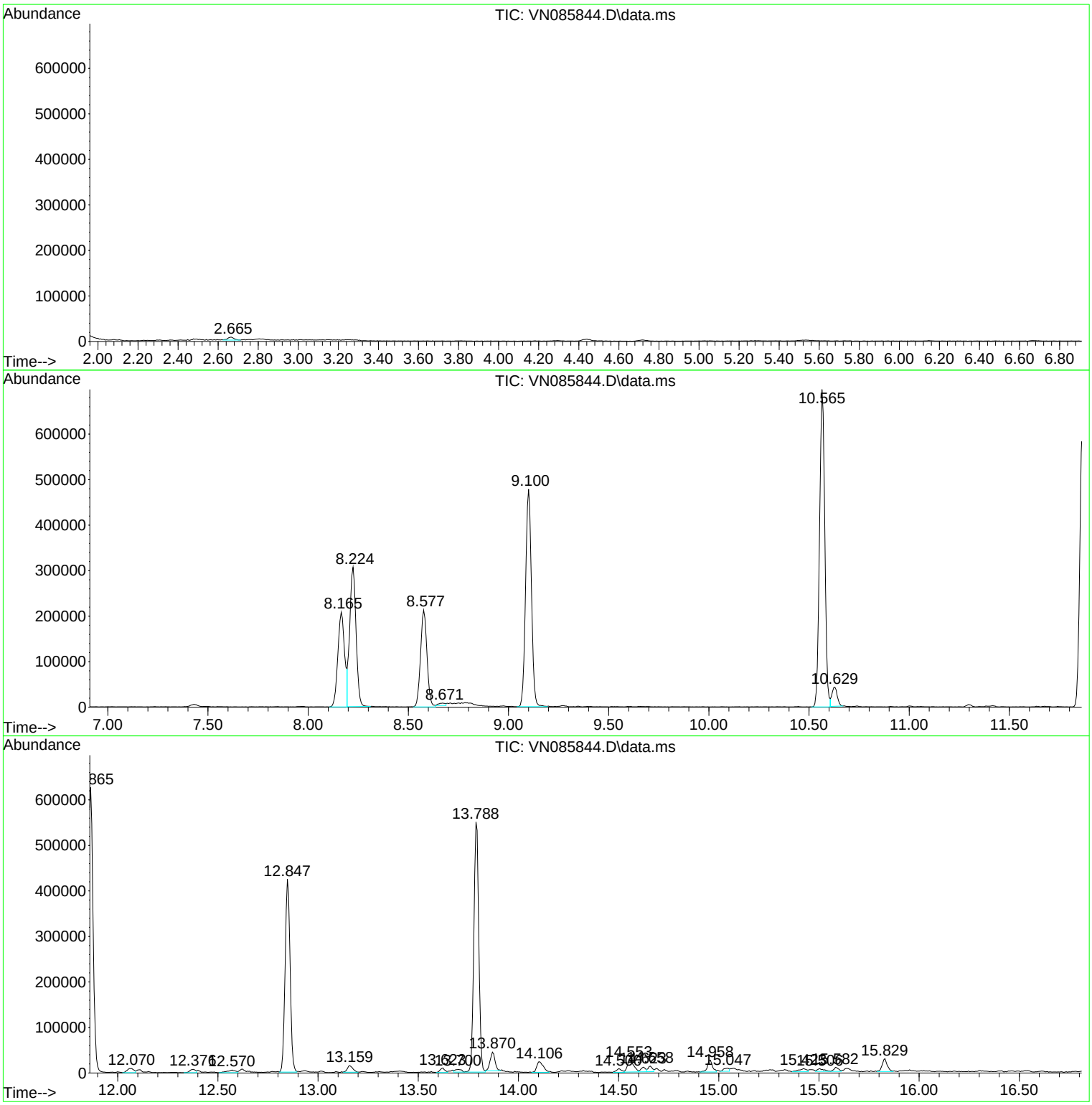
Sample Results: **VN085844.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085844.D
Acq On : 24 Feb 2025 18:02
Operator : JC\MD
Sample : Q1415-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-173-GW01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	219652	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	415867	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	368217	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141296	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	171306	60.156	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.320%			
35) Dibromofluoromethane	8.165	113	149510	54.942	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.880%			
50) Toluene-d8	10.565	98	492086	49.702	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.400%			
62) 4-Bromofluorobenzene	12.847	95	144556	44.314	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.620%			

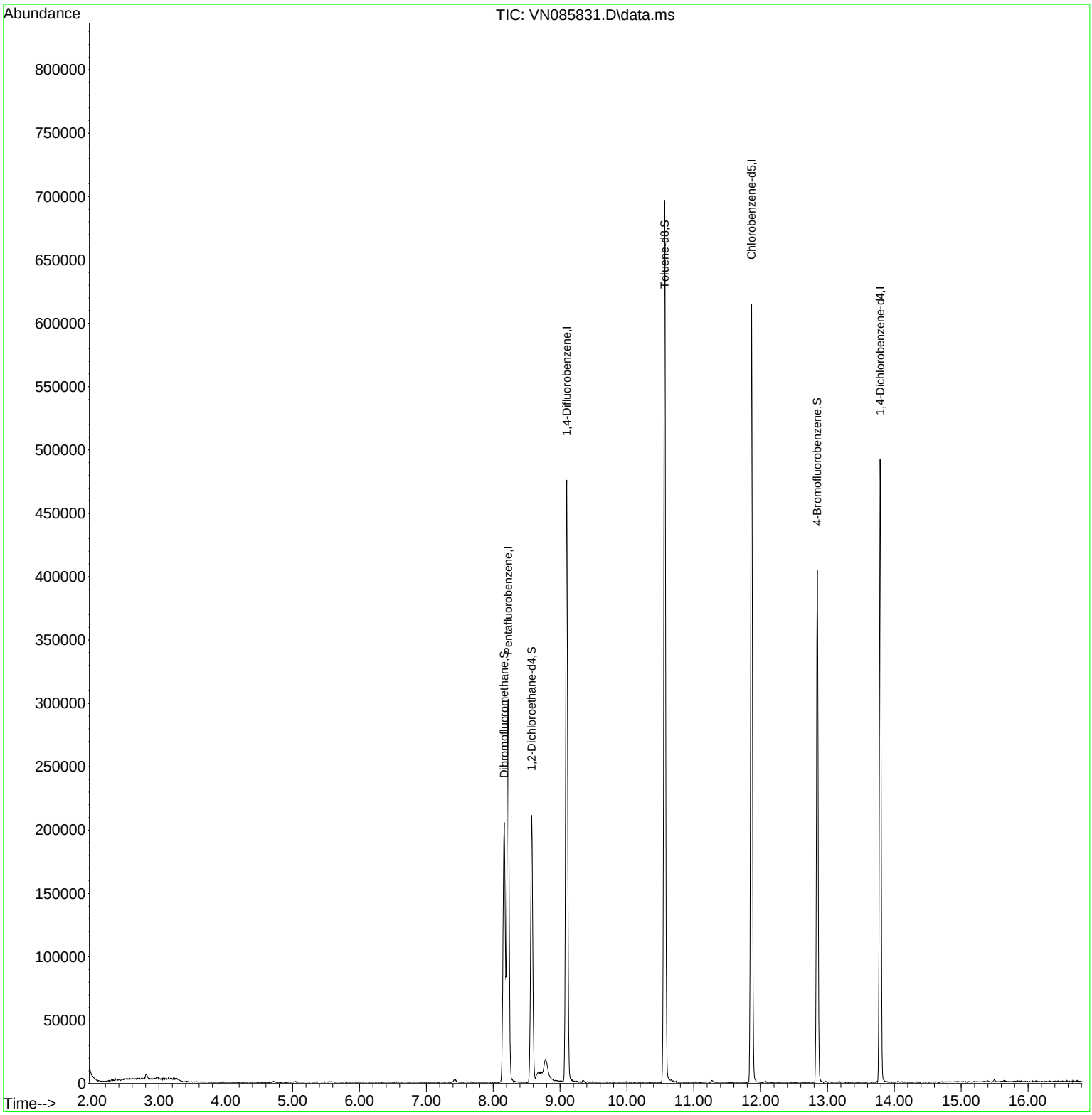
Target Compounds Qvalue

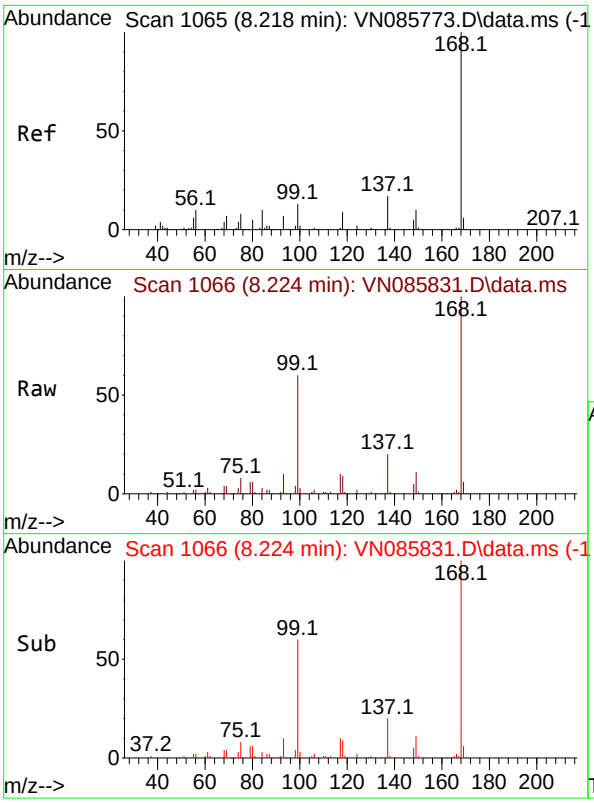
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Time: Feb 25 01:51:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



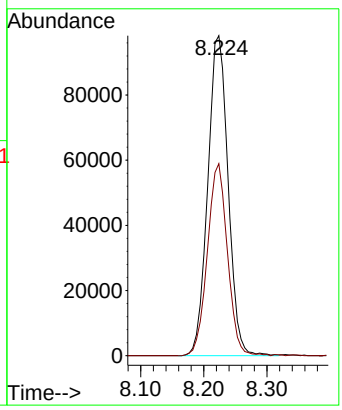


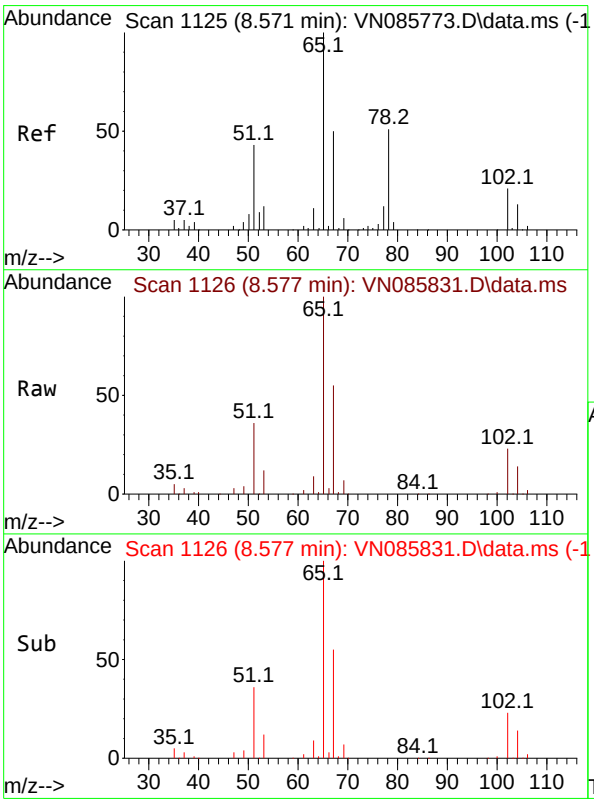
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion:168 Resp: 219652

Ion	Ratio	Lower	Upper
168	100		
99	60.0	47.9	71.9

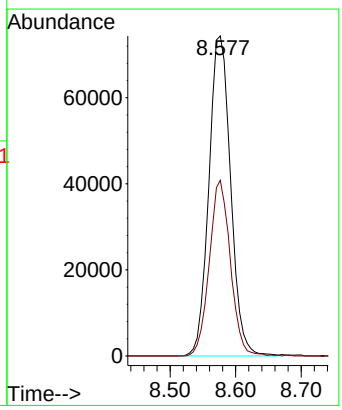


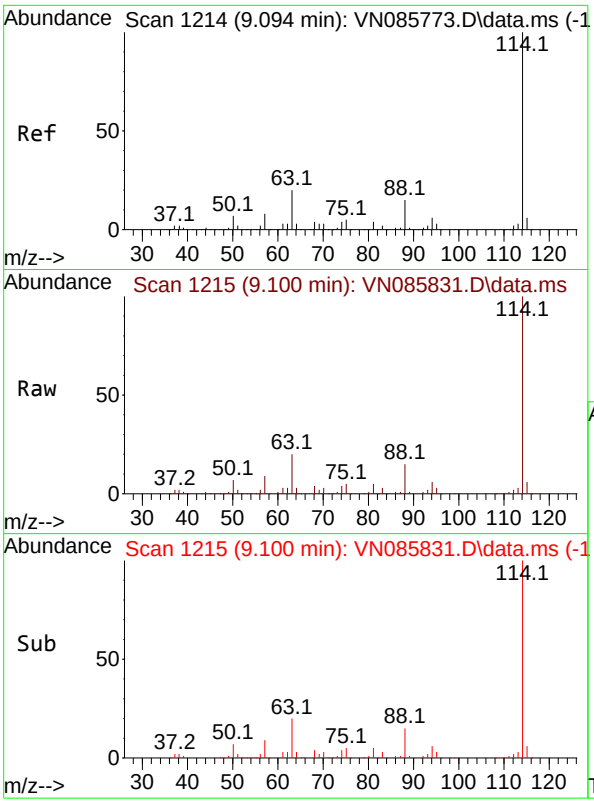


#33
1,2-Dichloroethane-d4
Concen: 60.156 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 65 Resp: 171306

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.2



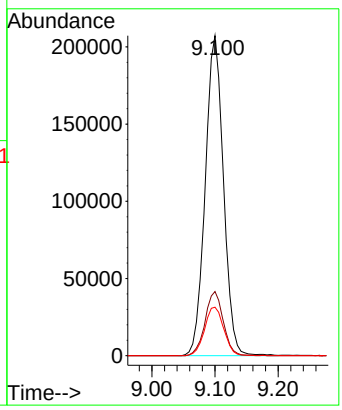


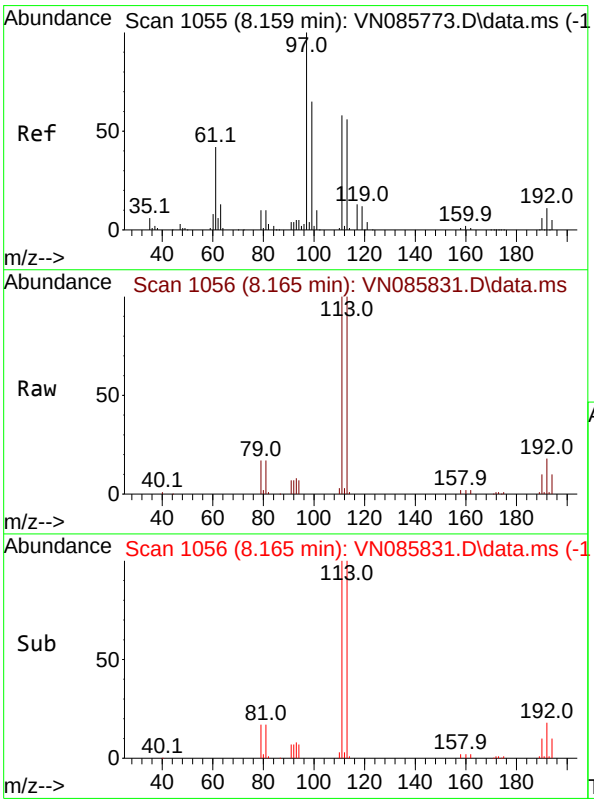
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion:114 Resp: 415867

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.2
88	15.1	0.0	30.0

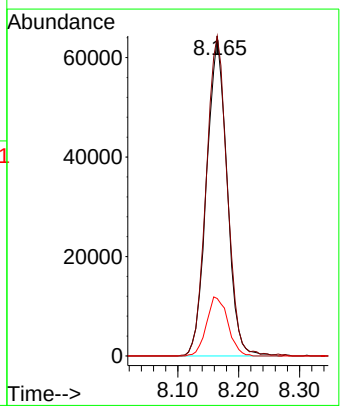


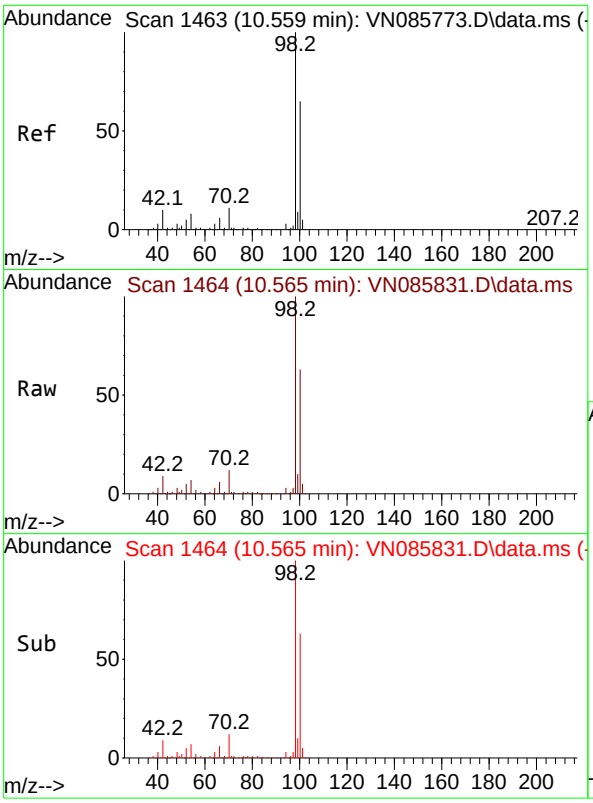


#35
Dibromofluoromethane
Concen: 54.942 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:113 Resp: 149510

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	19.3	14.7	22.1



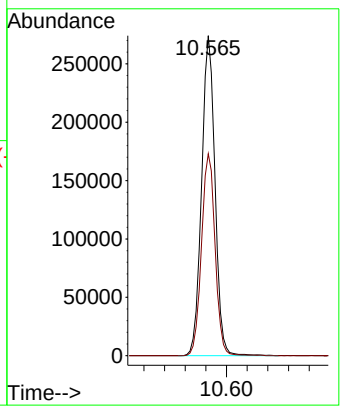


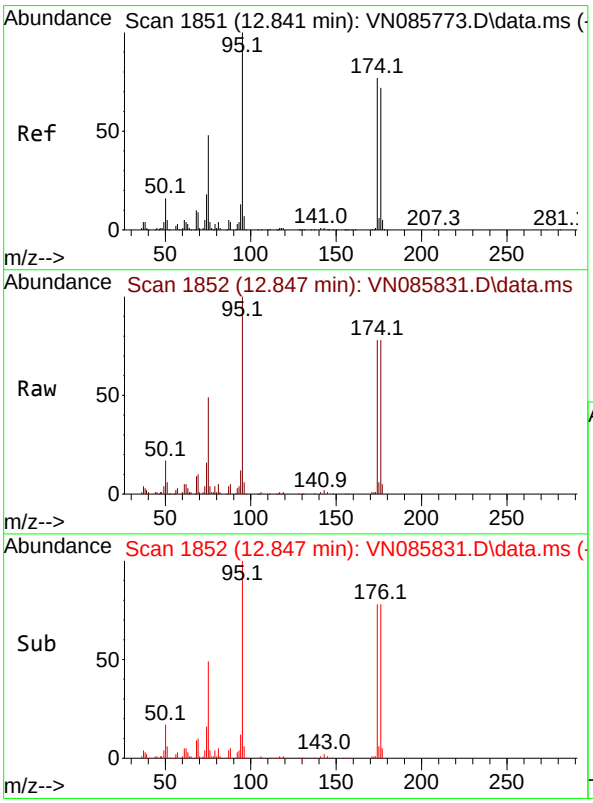
#50
Toluene-d8
Concen: 49.702 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Tgt Ion: 98 Resp: 492086

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1

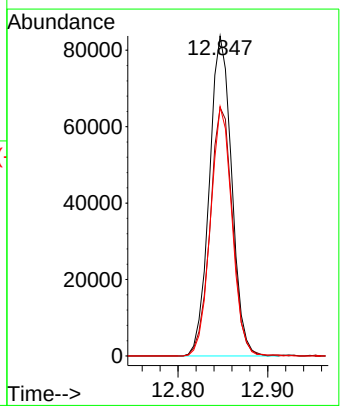




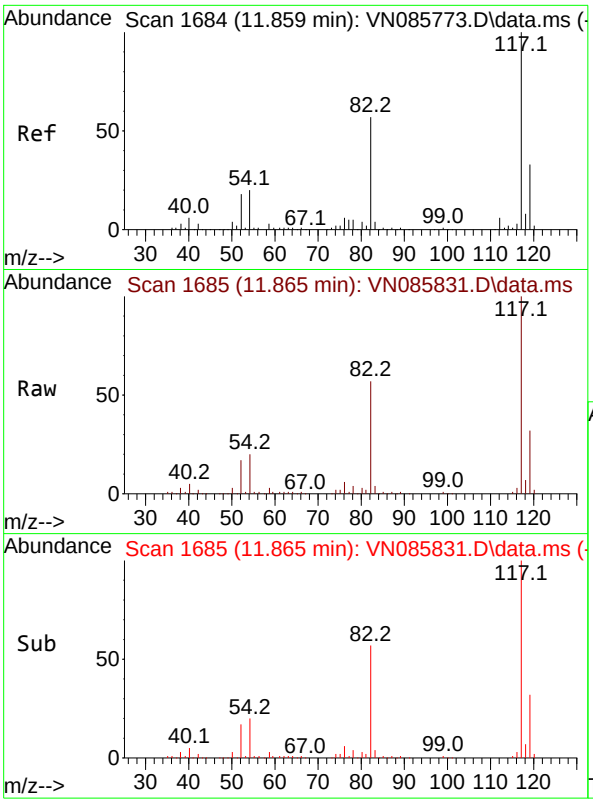
#62
4-Bromofluorobenzene
Concen: 44.314 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion: 95 Resp: 144556

Ion	Ratio	Lower	Upper
95	100		
174	78.3	0.0	152.4
176	75.3	0.0	146.6



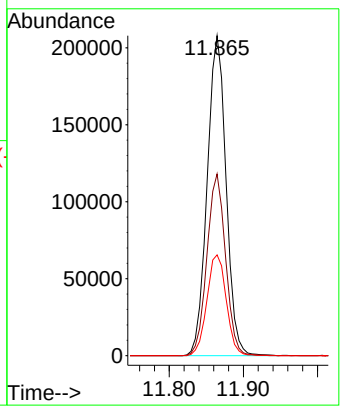
Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

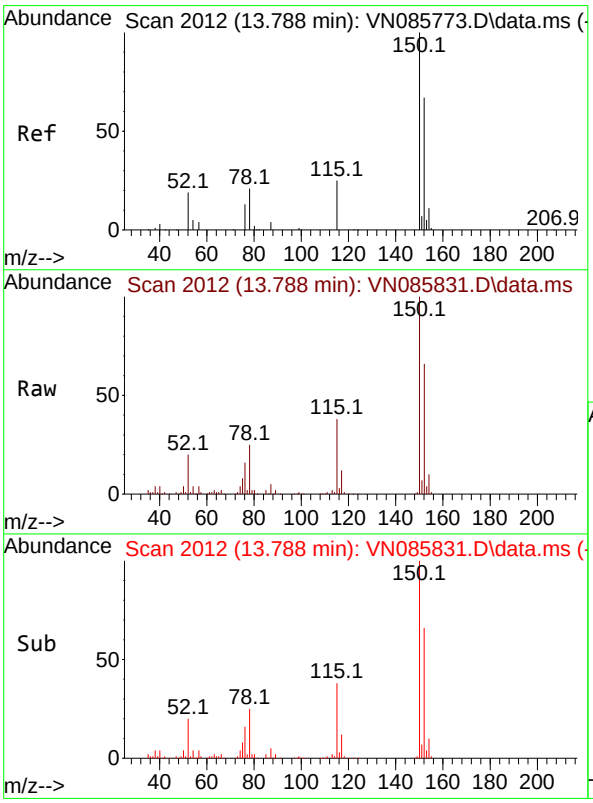


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:117 Resp: 368217

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.7	68.5
119	31.5	26.2	39.2

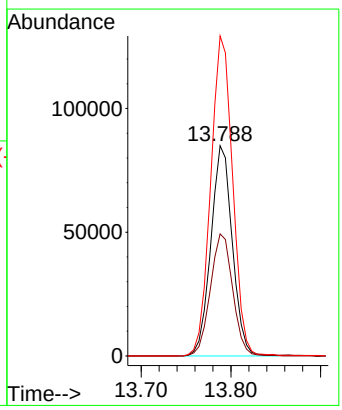




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085831.D
Acq: 24 Feb 2025 12:39

Tgt Ion:152 Resp: 141296

Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.4	91.3
150	155.6	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085831.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.165	1044	1056	1060	rBV	205136	471936	37.31%	7.207%
2	8.224	1060	1066	1080	rVB	302270	684714	54.13%	10.456%
3	8.577	1116	1126	1135	rBV	210858	472035	37.32%	7.208%
4	8.665	1135	1141	1146	rBV2	4446	12824	1.01%	0.196%
5	8.788	1154	1162	1178	rVB3	15910	63502	5.02%	0.970%
6	9.100	1205	1215	1227	rBV	475024	962861	76.12%	14.703%
7	10.565	1454	1464	1479	rBV	696413	1264982	100.00%	19.317%
8	11.865	1677	1685	1699	rBV	614373	1091818	86.31%	16.672%
9	12.847	1844	1852	1866	rBV	404746	692703	54.76%	10.578%
10	13.788	2005	2012	2023	rBV	491642	831252	65.71%	12.694%

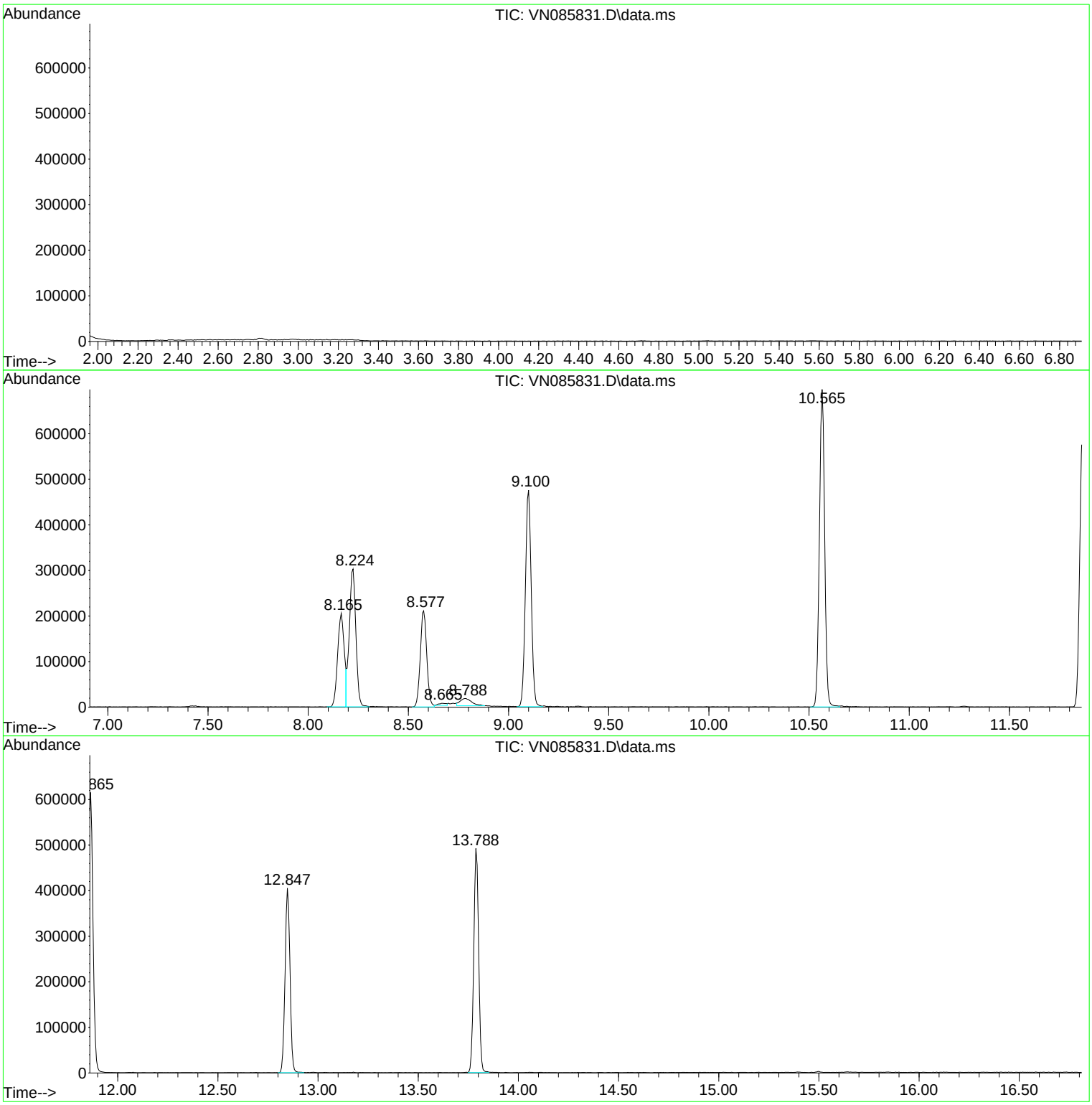
Sum of corrected areas: 6548627

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085831.D
Acq On : 24 Feb 2025 12:39
Operator : JC\MD
Sample : VN0224WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Time: Feb 25 23:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

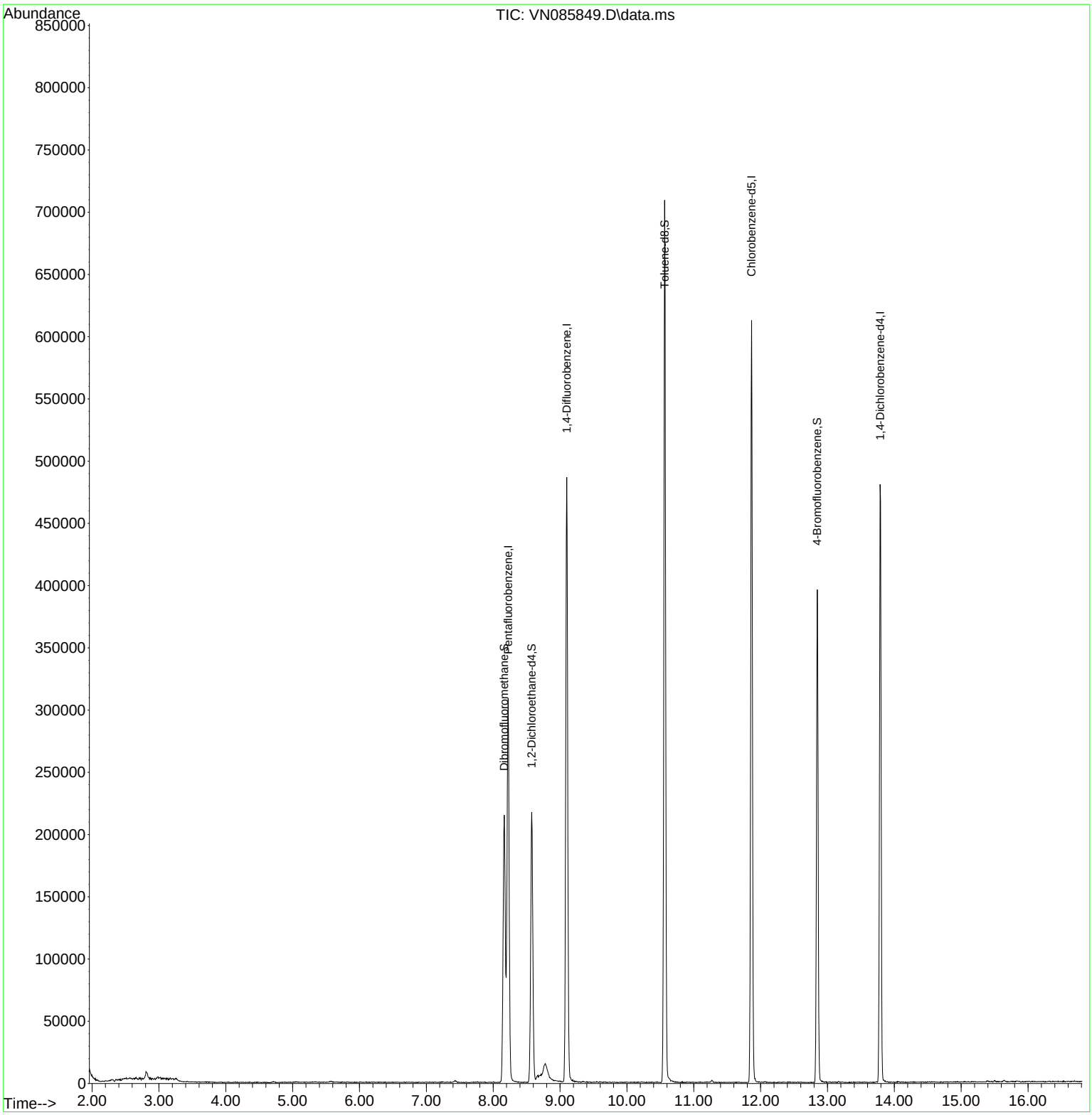
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	216938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	423956	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	361345	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	174897	62.185	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 124.380%			
35) Dibromofluoromethane	8.165	113	154931	55.848	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.700%			
50) Toluene-d8	10.565	98	493684	48.912	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.820%			
62) 4-Bromofluorobenzene	12.847	95	139391	41.916	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.840%			
Target Compounds						Qvalue

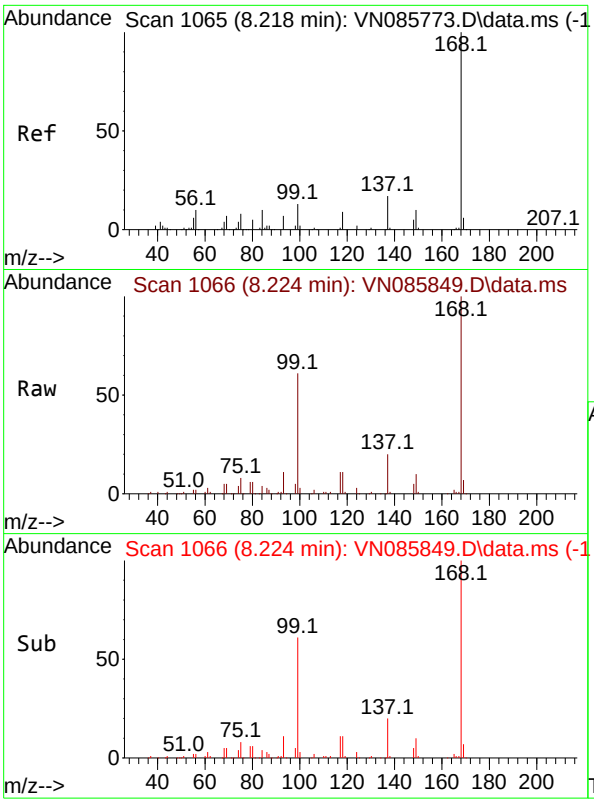
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Time: Feb 25 23:24:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration



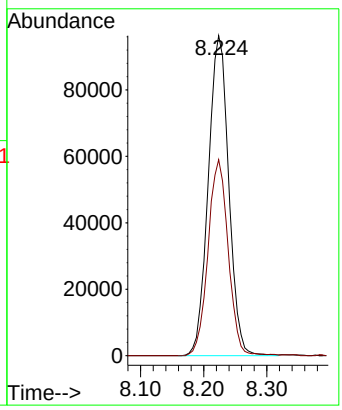


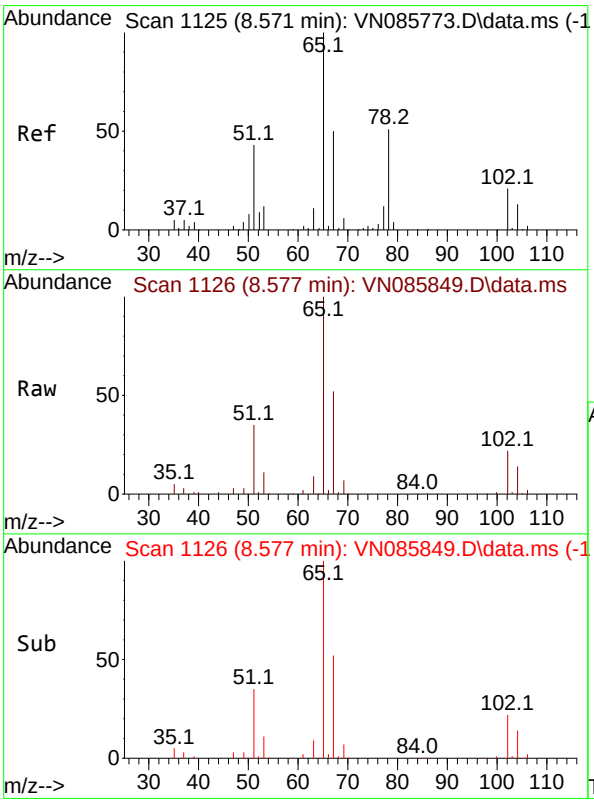
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion:168 Resp: 216938

Ion	Ratio	Lower	Upper
168	100		
99	61.3	47.9	71.9

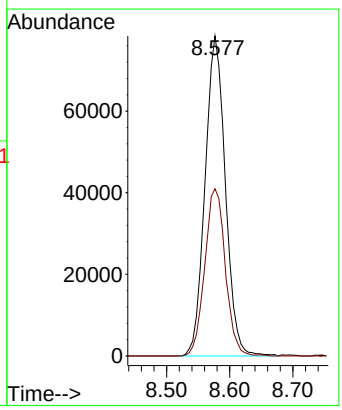


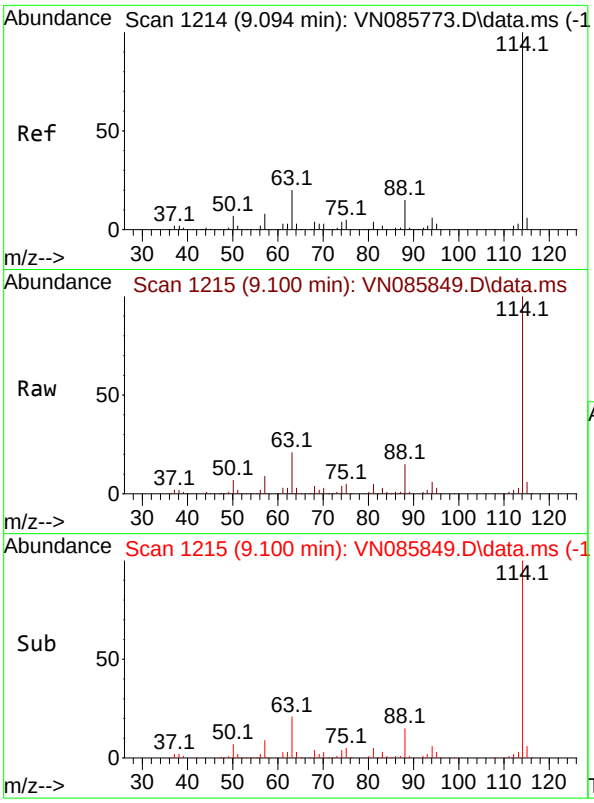


#33
1,2-Dichloroethane-d4
Concen: 62.185 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion: 65 Resp: 174897

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.2



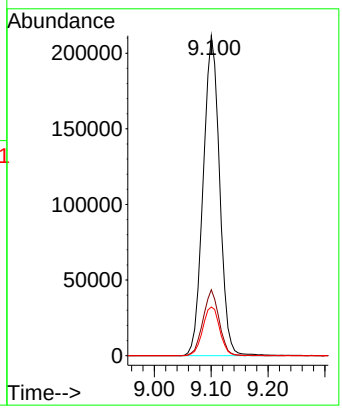


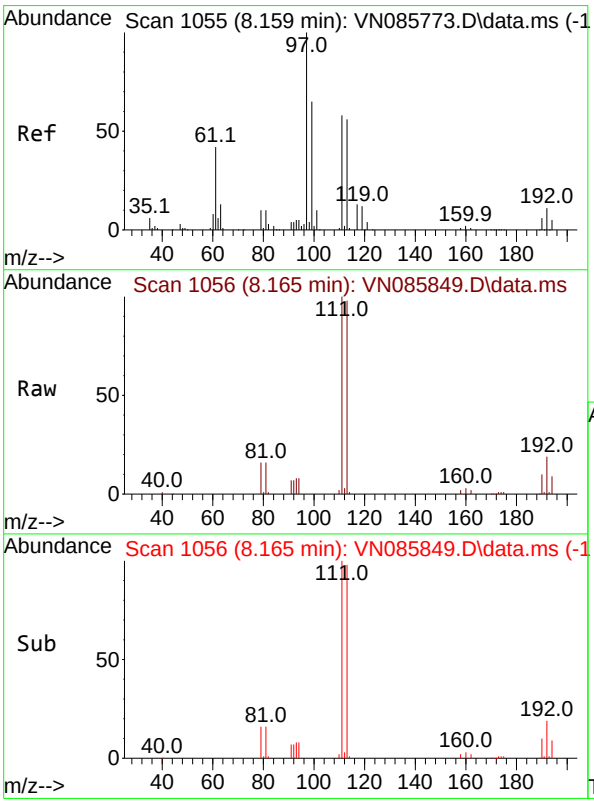
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion:114 Resp: 423956

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	39.2
88	15.2	0.0	30.0

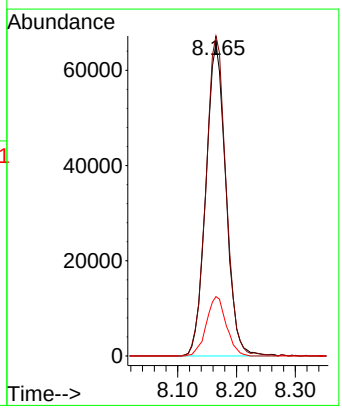


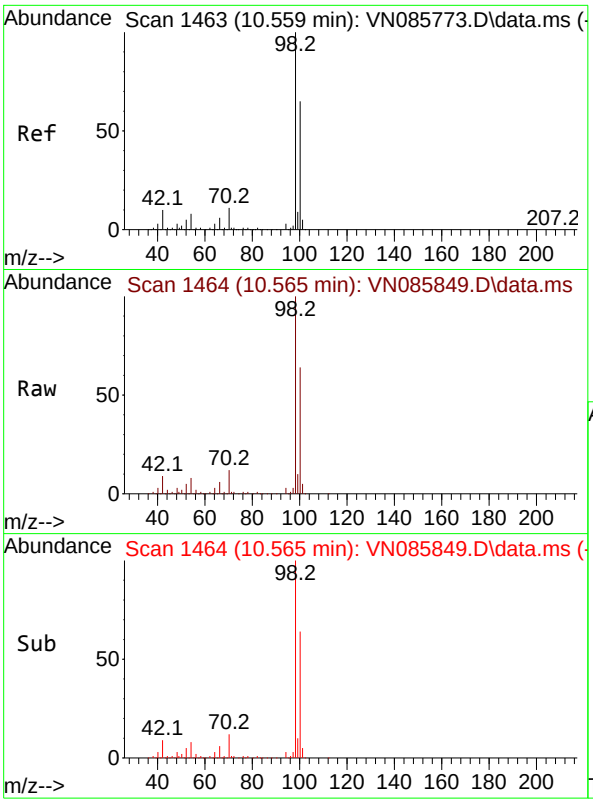


#35
Dibromofluoromethane
Concen: 55.848 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion:113 Resp: 154931

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	18.9	14.7	22.1



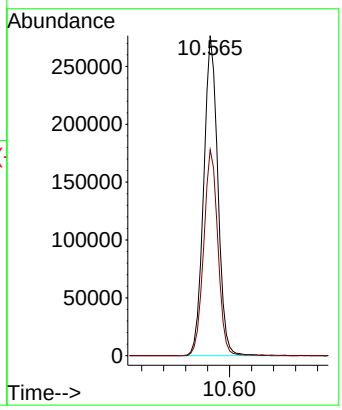


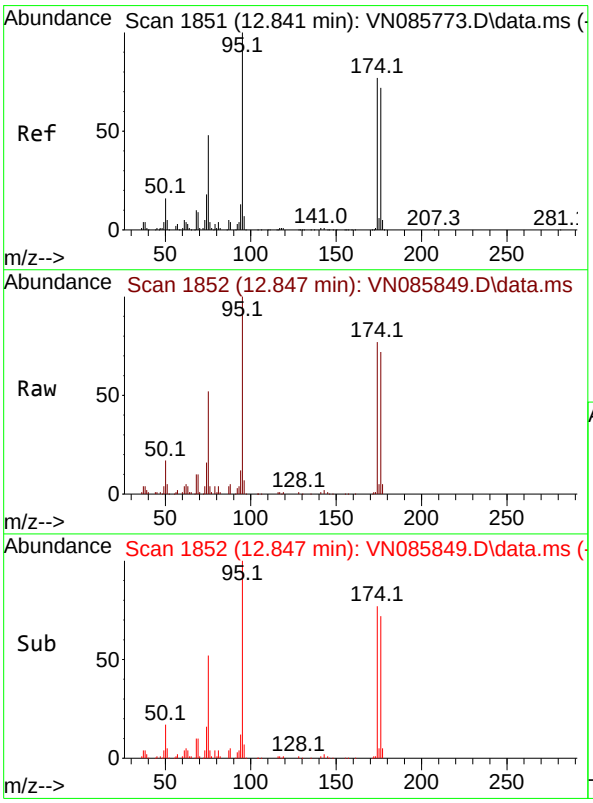
#50
Toluene-d8
Concen: 48.912 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion: 98 Resp: 493684

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.1	78.1

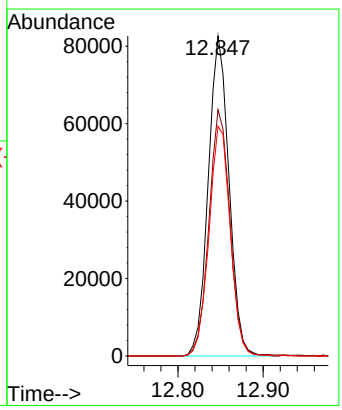


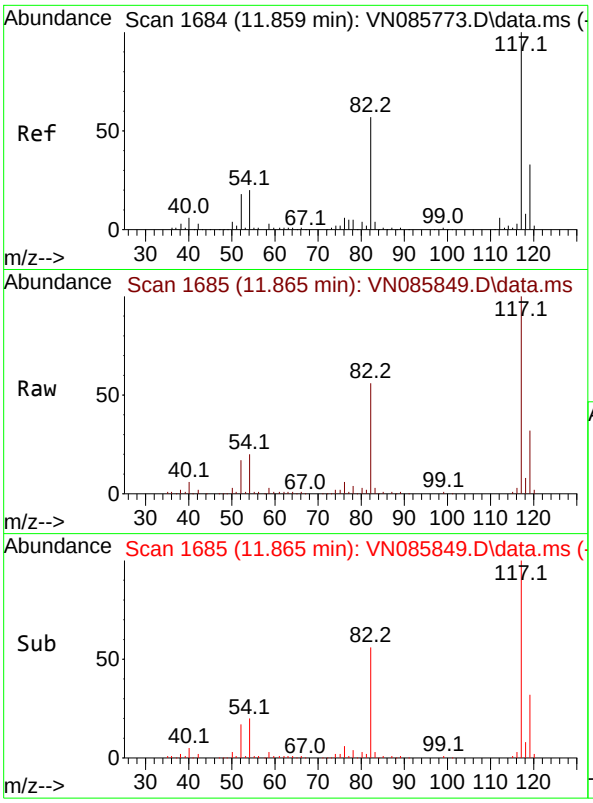


#62
4-Bromofluorobenzene
Concen: 41.916 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion: 95 Resp: 139391

Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	152.4
176	73.5	0.0	146.6



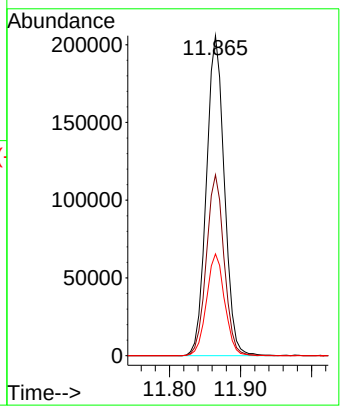


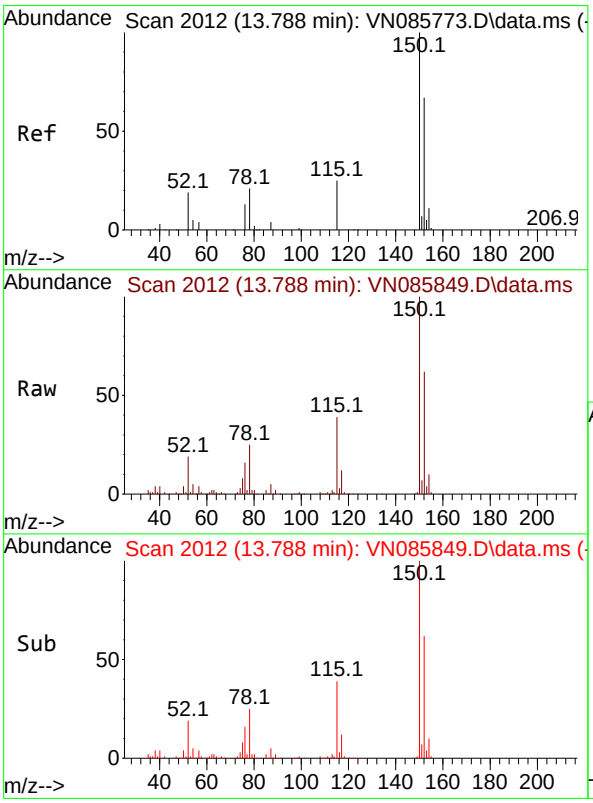
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Tgt Ion:117 Resp: 361345

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.7	68.5
119	31.8	26.2	39.2

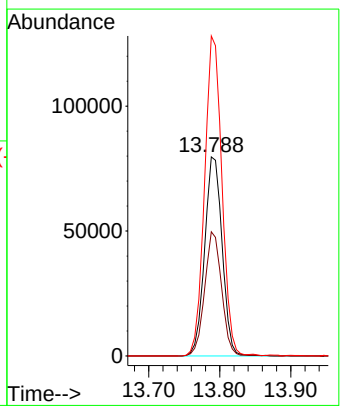




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085849.D
Acq: 25 Feb 2025 11:43

Tgt Ion:152 Resp: 136612

Ion	Ratio	Lower	Upper
152	100		
115	60.5	30.4	91.3
150	159.2	0.0	345.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Title : SW846 8260

Signal : TIC: VN085849.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.806	139	145	154	rVB5	6141	14877	1.17%	0.228%
2	8.165	1045	1056	1061	rBV	214635	515100	40.40%	7.892%
3	8.224	1061	1066	1077	rVB	307449	659549	51.73%	10.105%
4	8.577	1117	1126	1135	rBV	217088	483449	37.92%	7.407%
5	8.777	1153	1160	1172	rVB2	11409	43711	3.43%	0.670%
6	9.100	1206	1215	1224	rBV	485604	978102	76.71%	14.985%
7	10.565	1454	1464	1479	rBV	708942	1275050	100.00%	19.534%
8	11.865	1676	1685	1699	rBV	612088	1074090	84.24%	16.456%
9	12.847	1844	1852	1863	rBV	396038	670906	52.62%	10.279%
10	13.788	2005	2012	2020	rBV	480400	812359	63.71%	12.446%

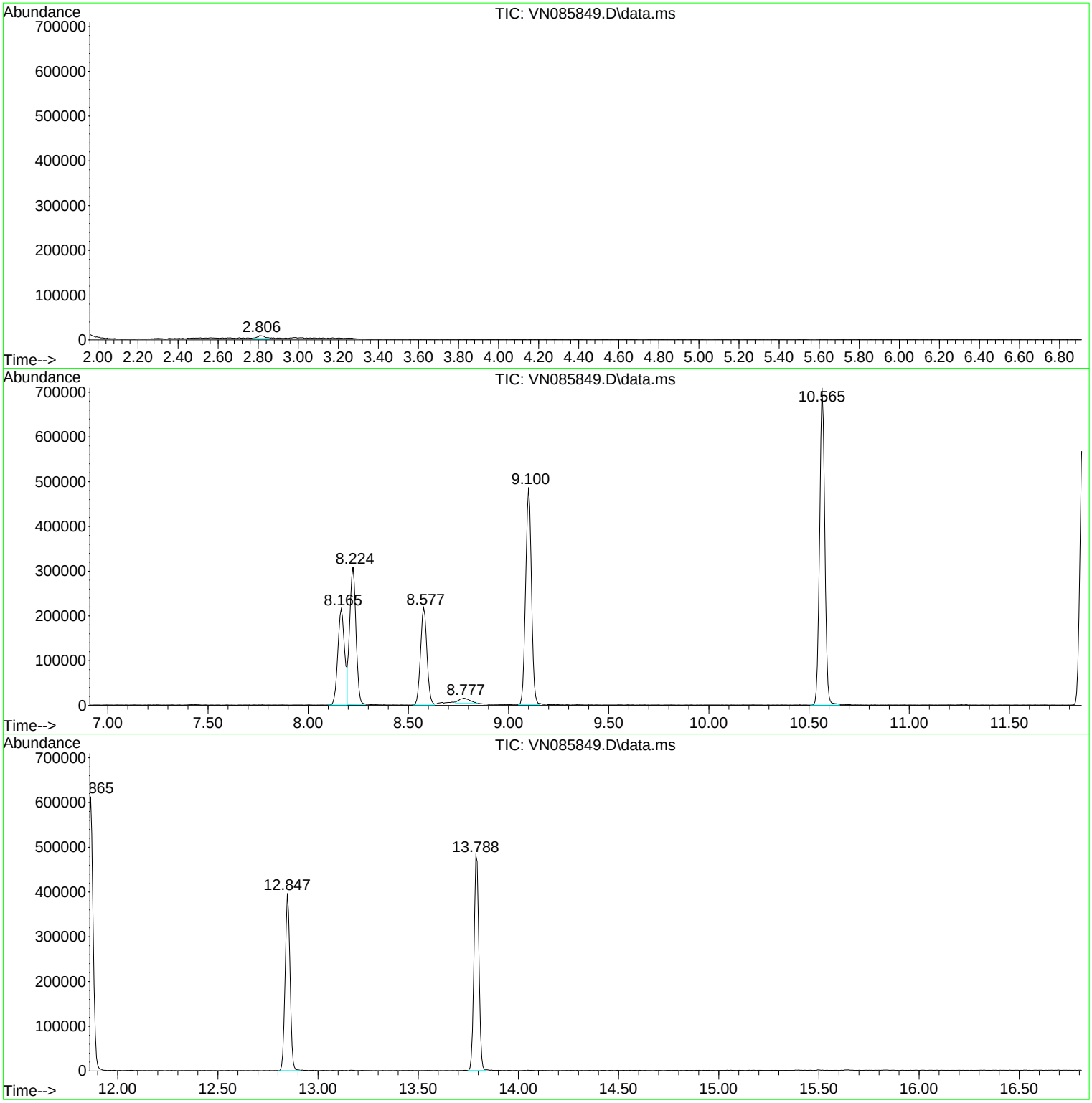
Sum of corrected areas: 6527193

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085849.D
Acq On : 25 Feb 2025 11:43
Operator : JC\MD
Sample : VN0225WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Time: Feb 27 00:34:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	251129	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	483695	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	470141	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	192201	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151228	53.084	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.160%			
35) Dibromofluoromethane	7.634	113	156988	49.505	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.020%			
50) Toluene-d8	10.109	98	601618	49.089	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.180%			
62) 4-Bromofluorobenzene	12.407	95	206622	50.096	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.200%			

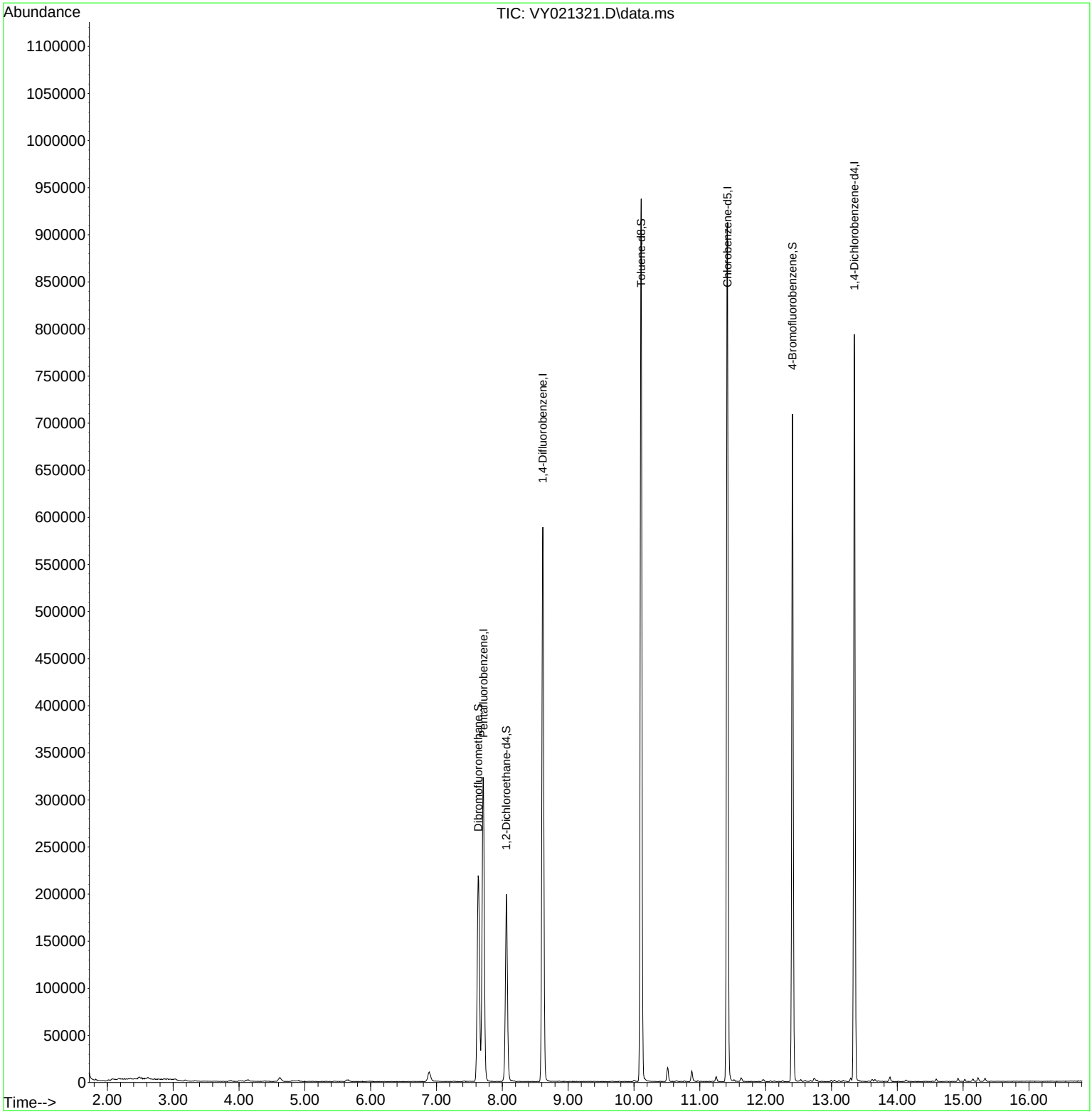
Target Compounds Qvalue

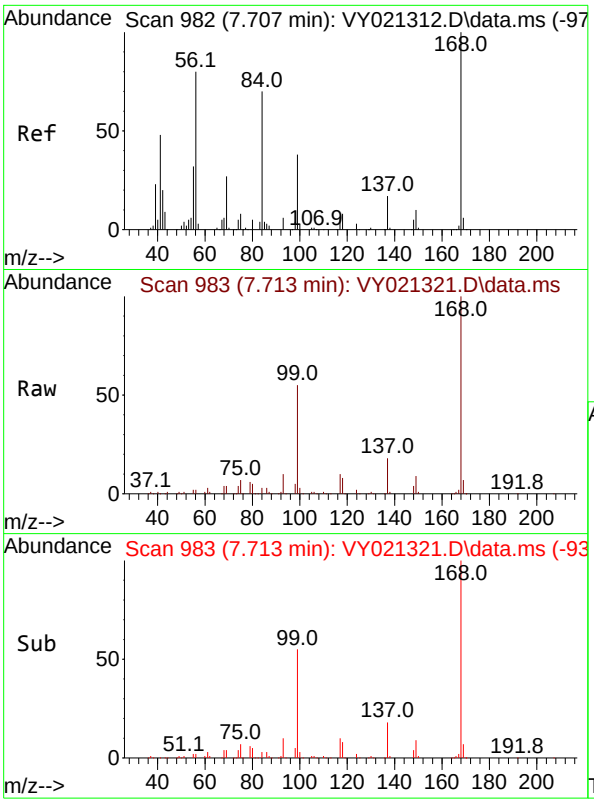
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Time: Feb 27 00:34:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



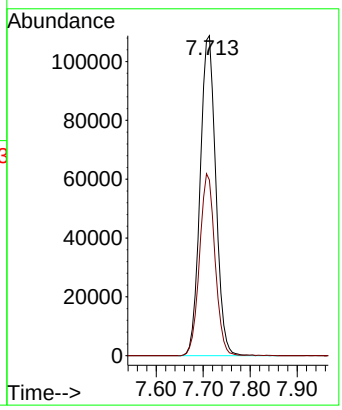


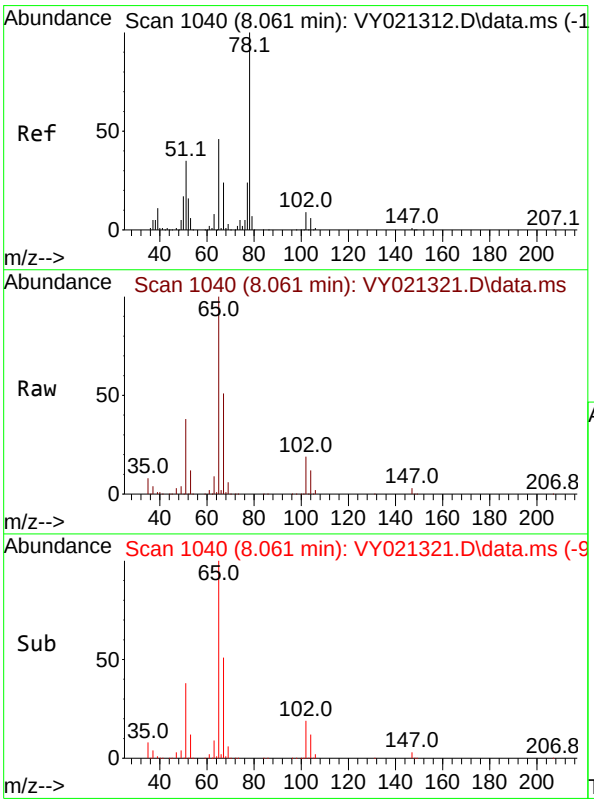
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion:168 Resp: 251129

Ion	Ratio	Lower	Upper
168	100		
99	54.9	47.1	70.7

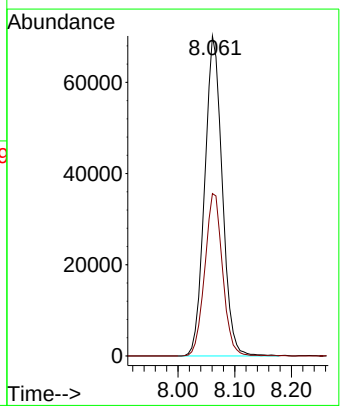


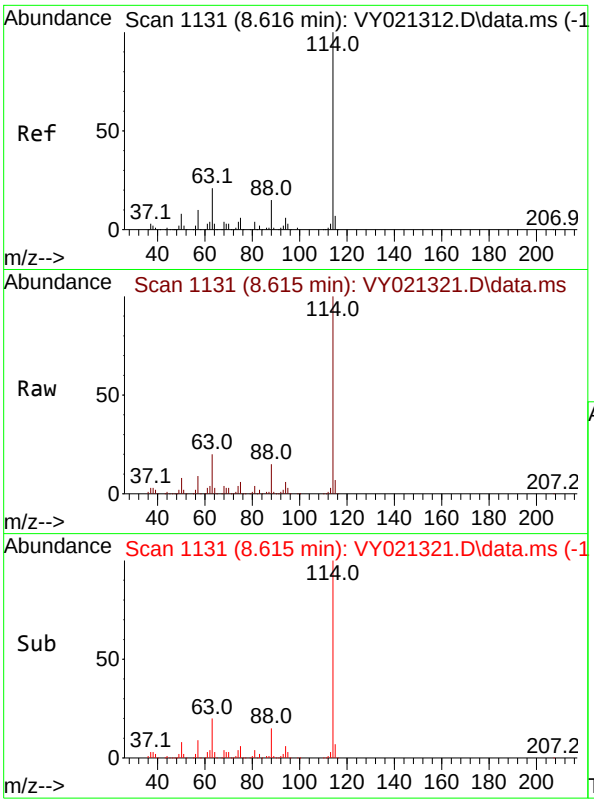


#33
1,2-Dichloroethane-d4
Concen: 53.084 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion: 65 Resp: 151228

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	103.6



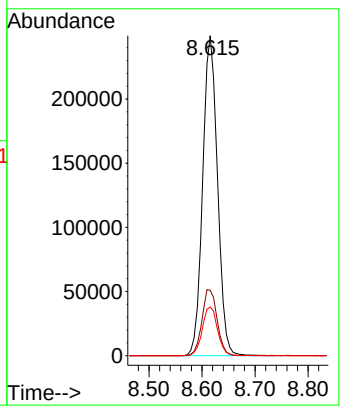


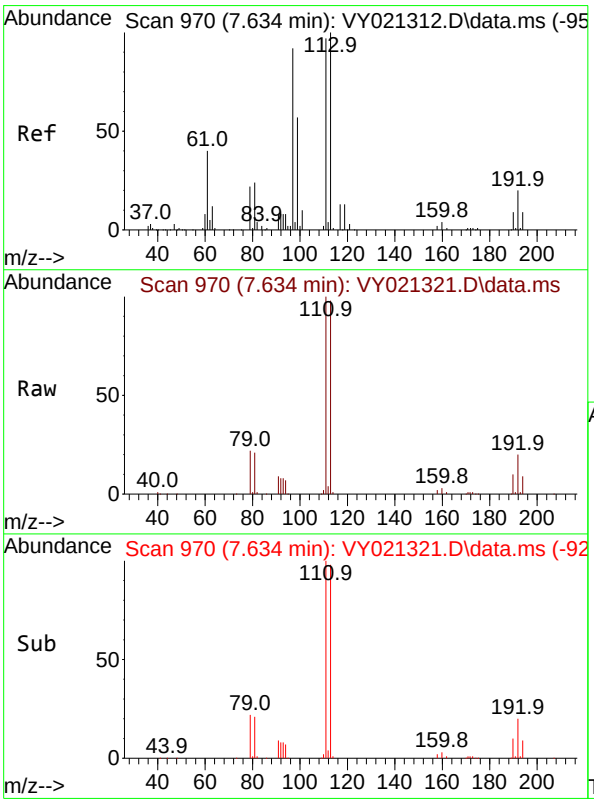
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion:114 Resp: 483695

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.2
88	15.2	0.0	29.8

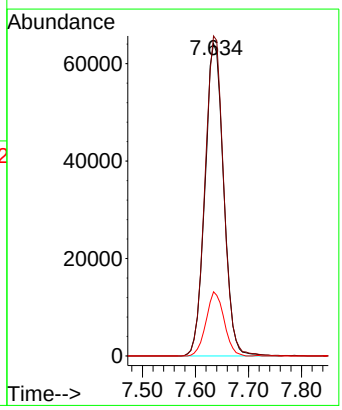


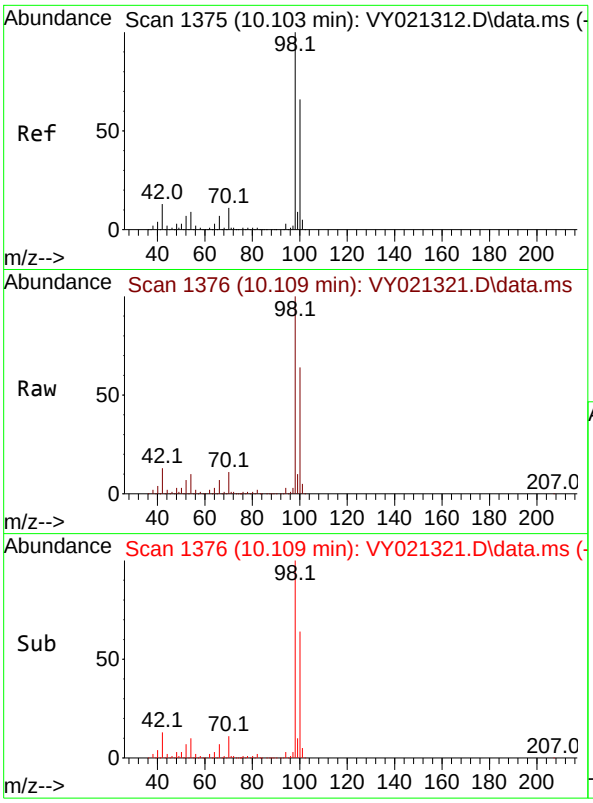


#35
Dibromofluoromethane
Concen: 49.505 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion:113 Resp: 156988

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.0	121.6
192	19.8	15.8	23.8



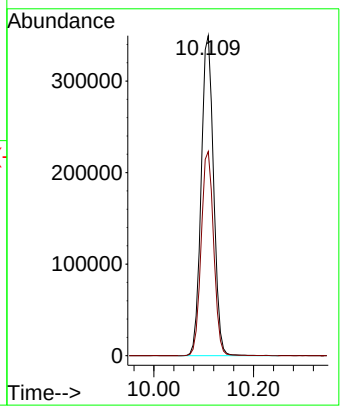


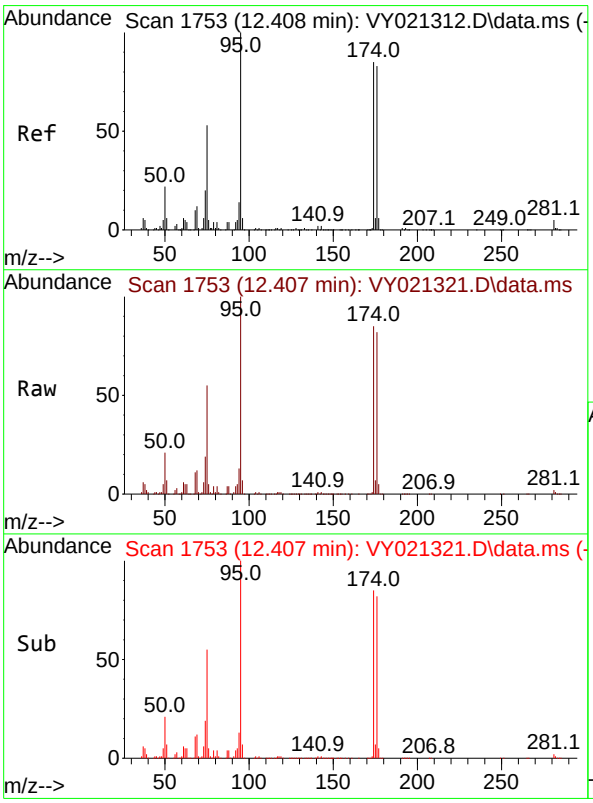
#50
Toluene-d8
Concen: 49.089 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion: 98 Resp: 601618

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.4	78.6

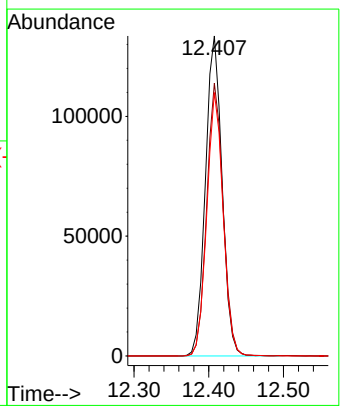


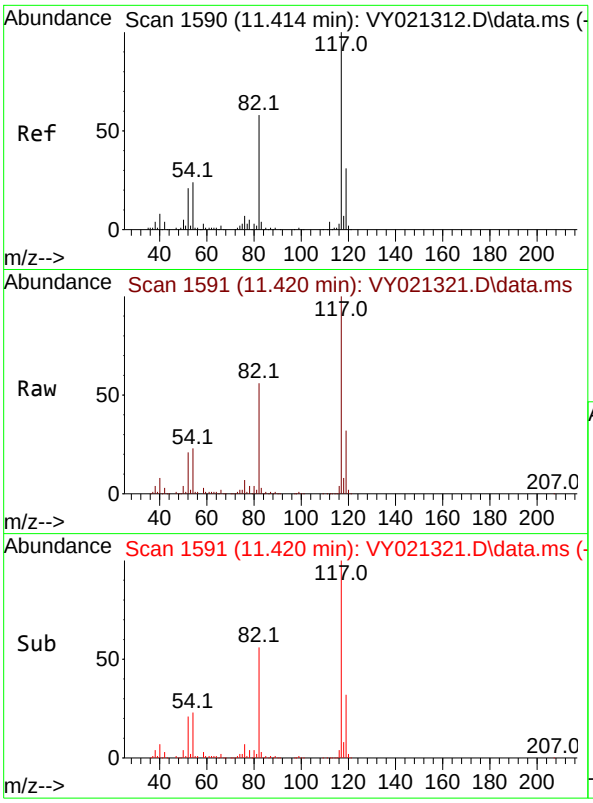


#62
4-Bromofluorobenzene
Concen: 50.096 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion: 95 Resp: 206622

Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	168.0
176	80.7	0.0	162.6



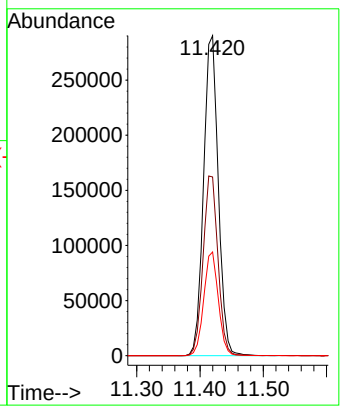


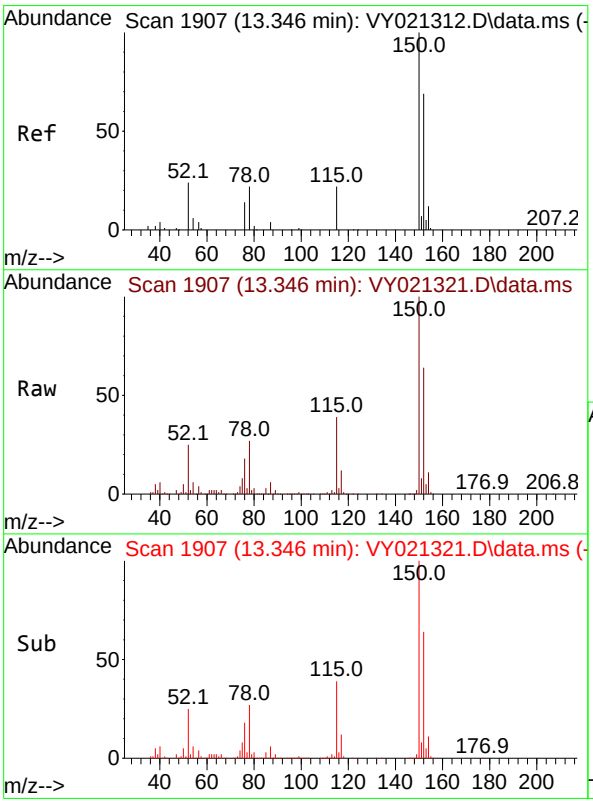
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Tgt Ion:117 Resp: 470141

Ion	Ratio	Lower	Upper
117	100		
82	55.8	46.2	69.4
119	32.4	24.9	37.3

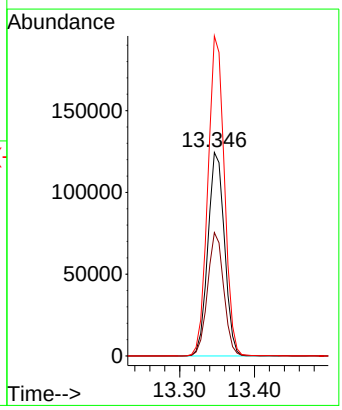




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021321.D
Acq: 26 Feb 2025 10:50

Tgt Ion:152 Resp: 192201

Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.3	88.0
150	156.2	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021321.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	837	848	858	rBV	10339	32583	2.00%	0.388%
2	7.634	959	970	976	rBV	218621	526717	32.34%	6.272%
3	7.707	976	982	995	rVB	322770	750354	46.06%	8.935%
4	8.061	1027	1040	1053	rBV	199017	436262	26.78%	5.195%
5	8.615	1121	1131	1146	rBV	588653	1157316	71.05%	13.781%
6	10.109	1368	1376	1393	rBV	937010	1628919	100.00%	19.397%
7	10.511	1434	1442	1451	rVB2	14814	27683	1.70%	0.330%
8	10.877	1496	1502	1512	rVB	11354	19861	1.22%	0.237%
9	11.420	1583	1591	1603	rBV	912084	1502567	92.24%	17.893%
10	12.407	1746	1753	1765	rBV	708516	1114080	68.39%	13.266%
11	13.346	1901	1907	1918	rVB	792294	1201379	73.75%	14.306%

Sum of corrected areas: 8397721

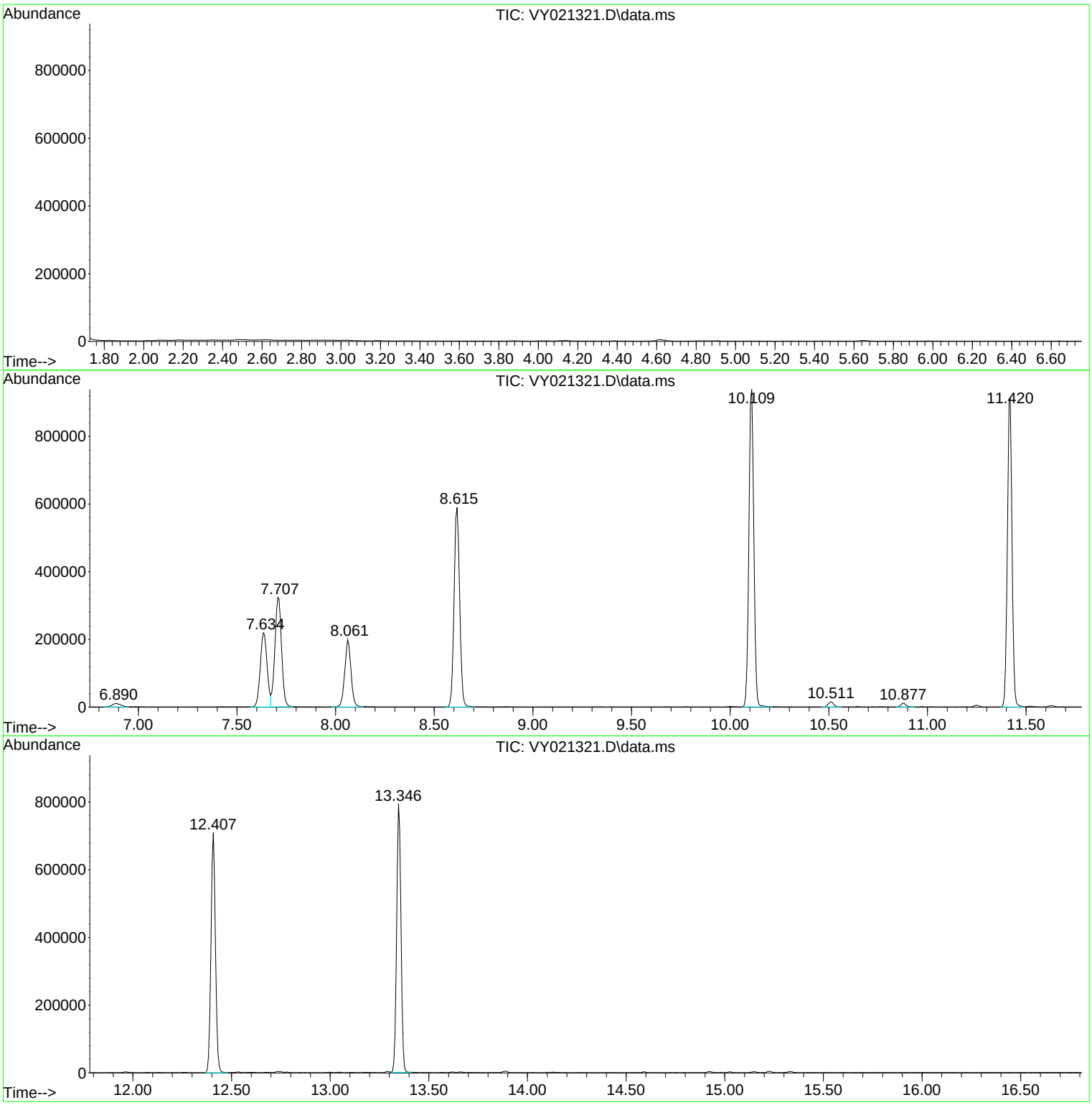
Sample Results: **VY021321.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021321.D
Acq On : 26 Feb 2025 10:50
Operator : SY/MD
Sample : VY0226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	140233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	264026	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	255103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	107368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	94225	59.230	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.460%			
35) Dibromofluoromethane	7.634	113	90944	52.539	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.080%			
50) Toluene-d8	10.109	98	322284	48.176	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.360%			
62) 4-Bromofluorobenzene	12.407	95	111519	49.533	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.060%			

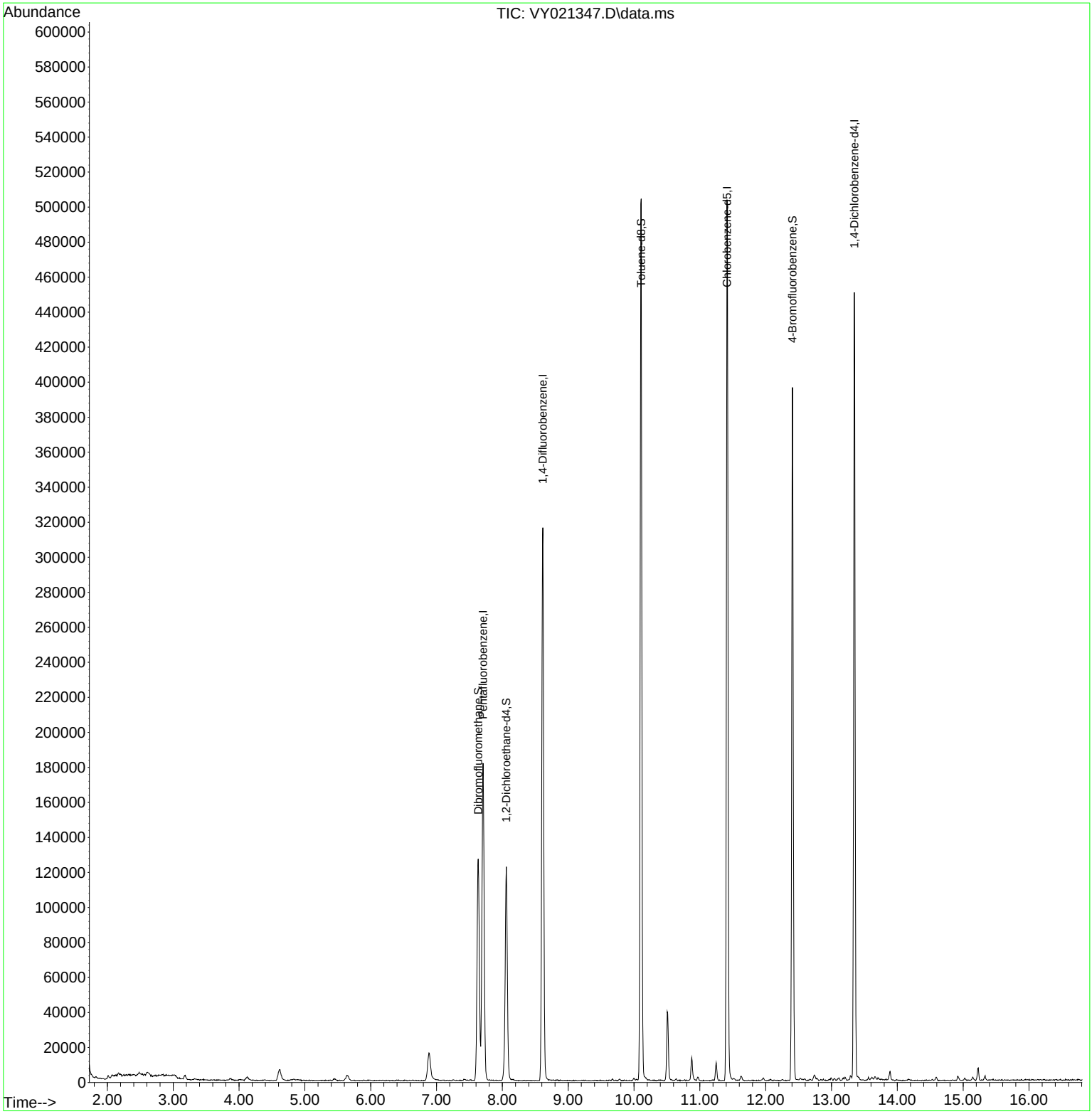
Target Compounds Qvalue

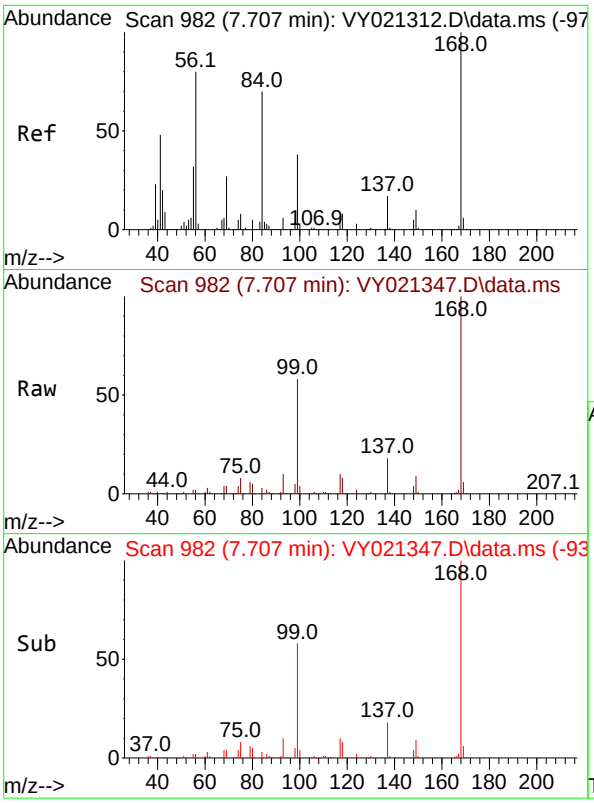
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Time: Feb 28 00:40:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration



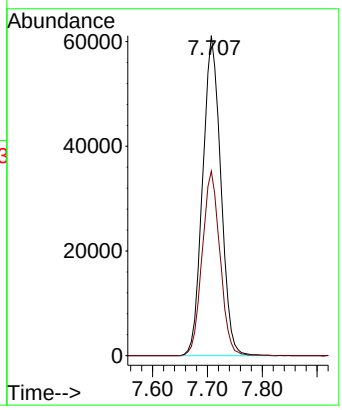


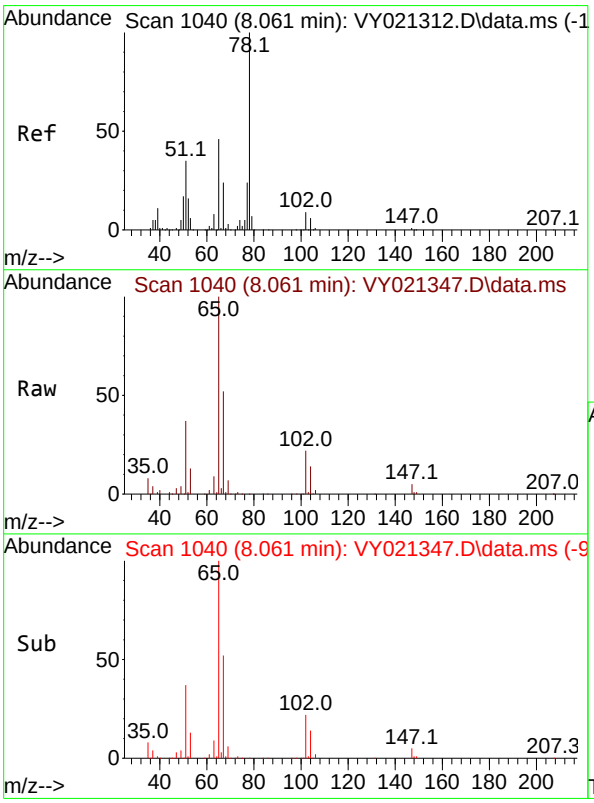
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:168 Resp: 140233

Ion	Ratio	Lower	Upper
168	100		
99	57.6	47.1	70.7

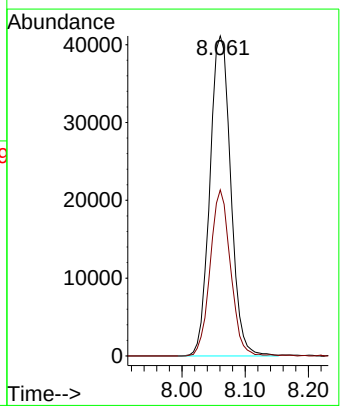


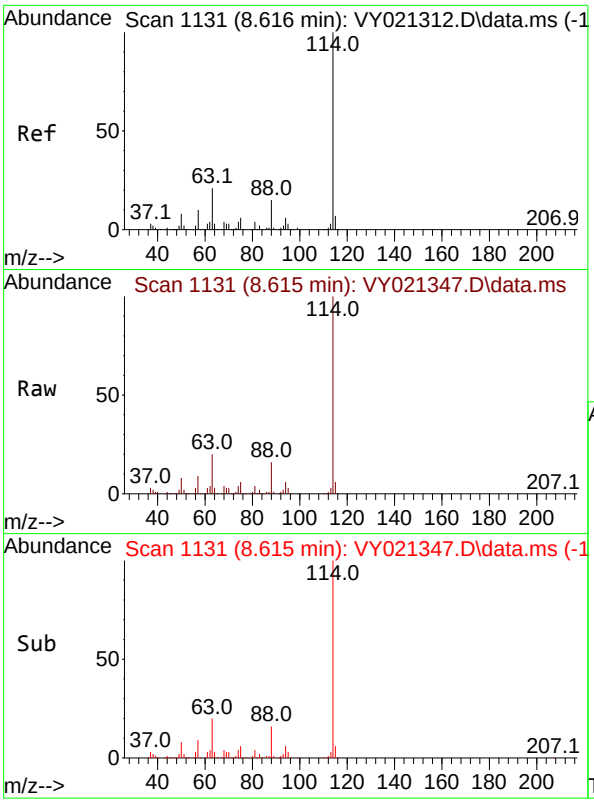


#33
1,2-Dichloroethane-d4
Concen: 59.230 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 65 Resp: 94225

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	103.6



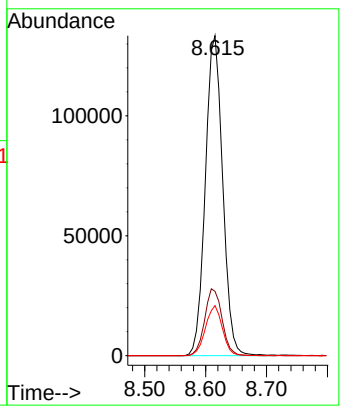


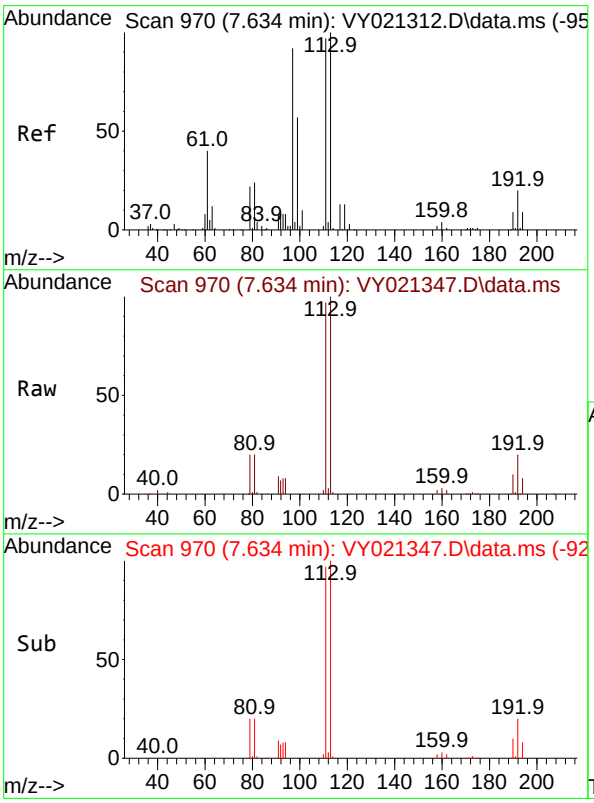
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:114 Resp: 264026

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.2
88	15.7	0.0	29.8

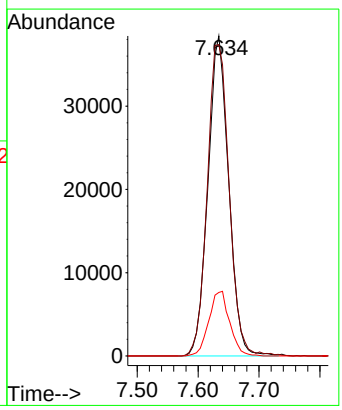


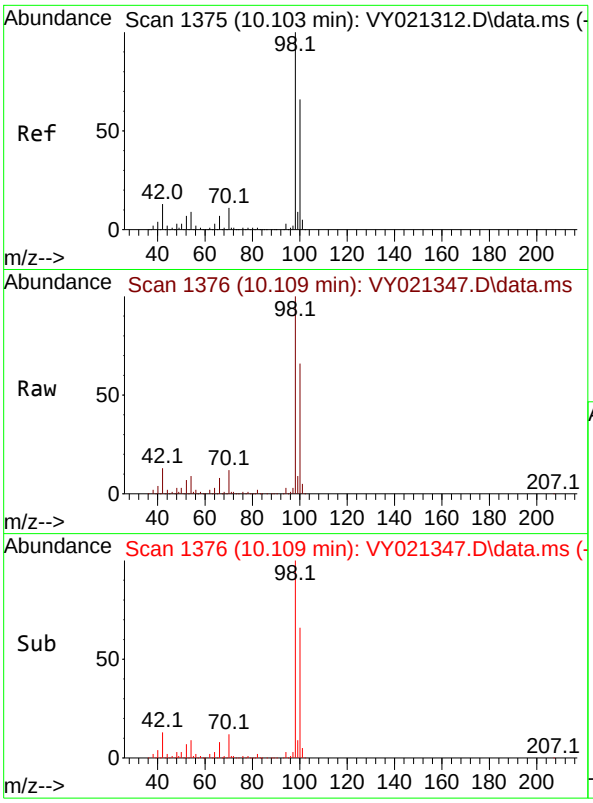


#35
Dibromofluoromethane
Concen: 52.539 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:113 Resp: 90944

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.0	121.6
192	20.3	15.8	23.8



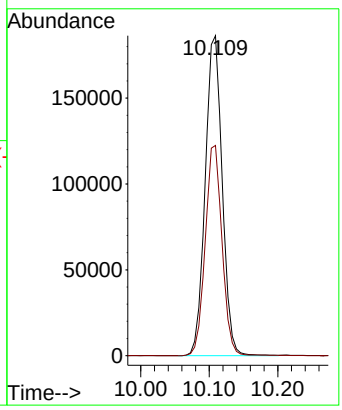


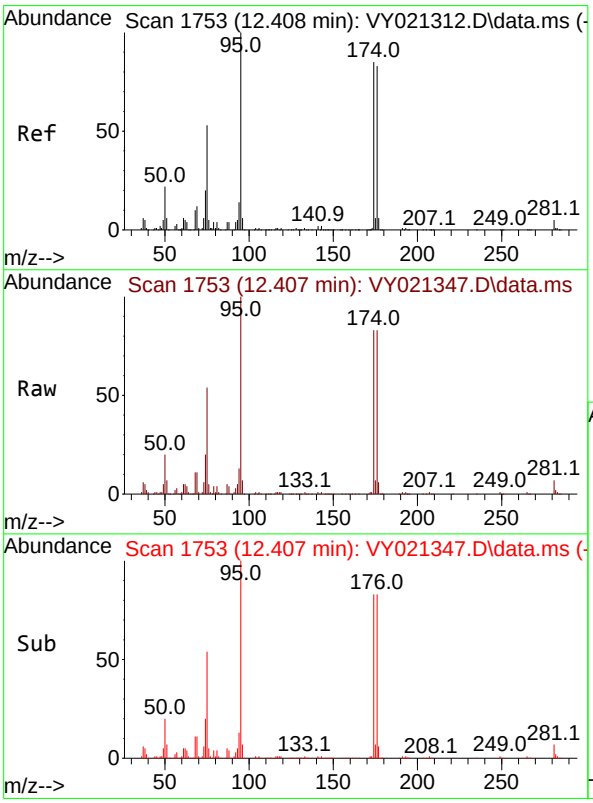
#50
Toluene-d8
Concen: 48.176 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion: 98 Resp: 322284

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.4	78.6

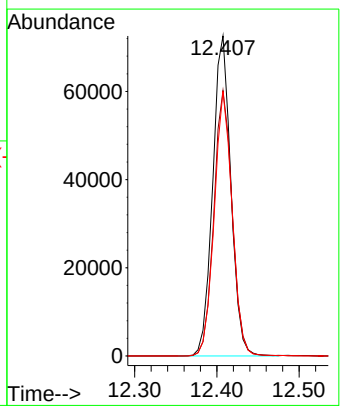


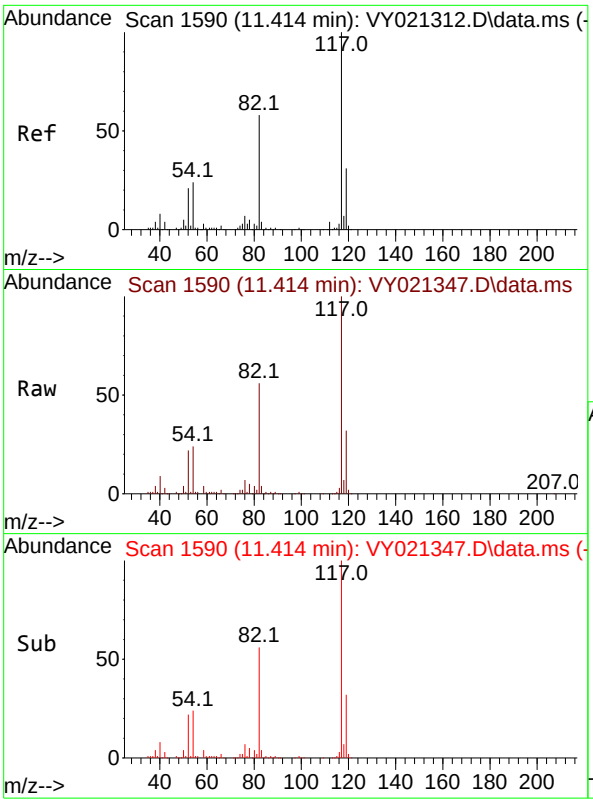


#62
4-Bromofluorobenzene
Concen: 49.533 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 95 Resp: 111519

Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	168.0
176	81.7	0.0	162.6



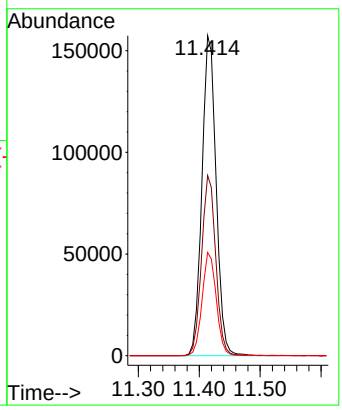


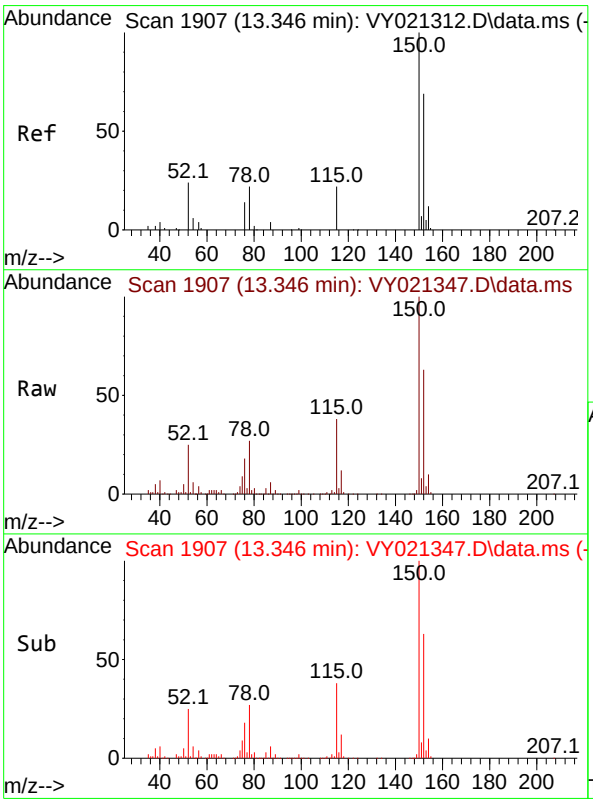
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Tgt Ion:117 Resp: 255103

Ion	Ratio	Lower	Upper
117	100		
82	56.3	46.2	69.4
119	32.3	24.9	37.3

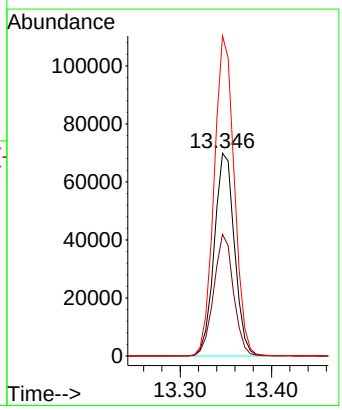




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021347.D
Acq: 27 Feb 2025 10:42

Tgt Ion:152 Resp: 107368

Ion	Ratio	Lower	Upper
152	100		
115	58.5	29.3	88.0
150	157.4	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Title : SW846 8260

Signal : TIC: VY021347.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	467	475	492	rVB2	6284	21235	2.42%	0.437%
2	5.640	632	643	655	rBV5	3017	9750	1.11%	0.201%
3	6.884	837	847	865	rBV	15930	53856	6.14%	1.109%
4	7.634	960	970	976	rBV2	126557	309026	35.24%	6.363%
5	7.707	976	982	996	rVB	181083	418824	47.76%	8.623%
6	8.061	1027	1040	1051	rBV	122099	283283	32.30%	5.833%
7	8.615	1122	1131	1145	rBV	315845	630977	71.95%	12.992%
8	10.109	1368	1376	1392	rVB	503363	876938	100.00%	18.056%
9	10.505	1434	1441	1450	rBV	39488	72341	8.25%	1.489%
10	10.877	1492	1502	1510	rBV	13045	22855	2.61%	0.471%
11	11.249	1558	1563	1570	rVB	10227	16372	1.87%	0.337%
12	11.414	1583	1590	1603	rBV	503205	815091	92.95%	16.782%
13	12.407	1746	1753	1762	rBV2	395816	641394	73.14%	13.206%
14	13.346	1901	1907	1915	rBV	448635	672738	76.71%	13.851%
15	15.230	2210	2216	2220	rBV3	7340	12145	1.38%	0.250%

Sum of corrected areas: 4856825

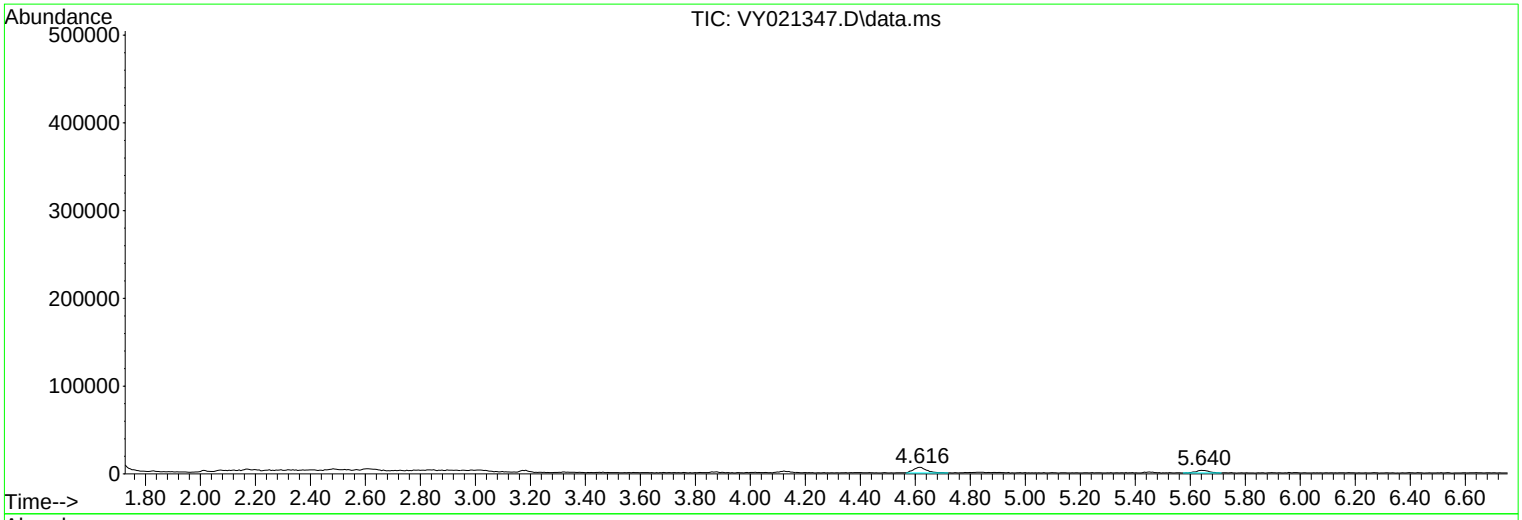
Sample Results: **VY021347.D**

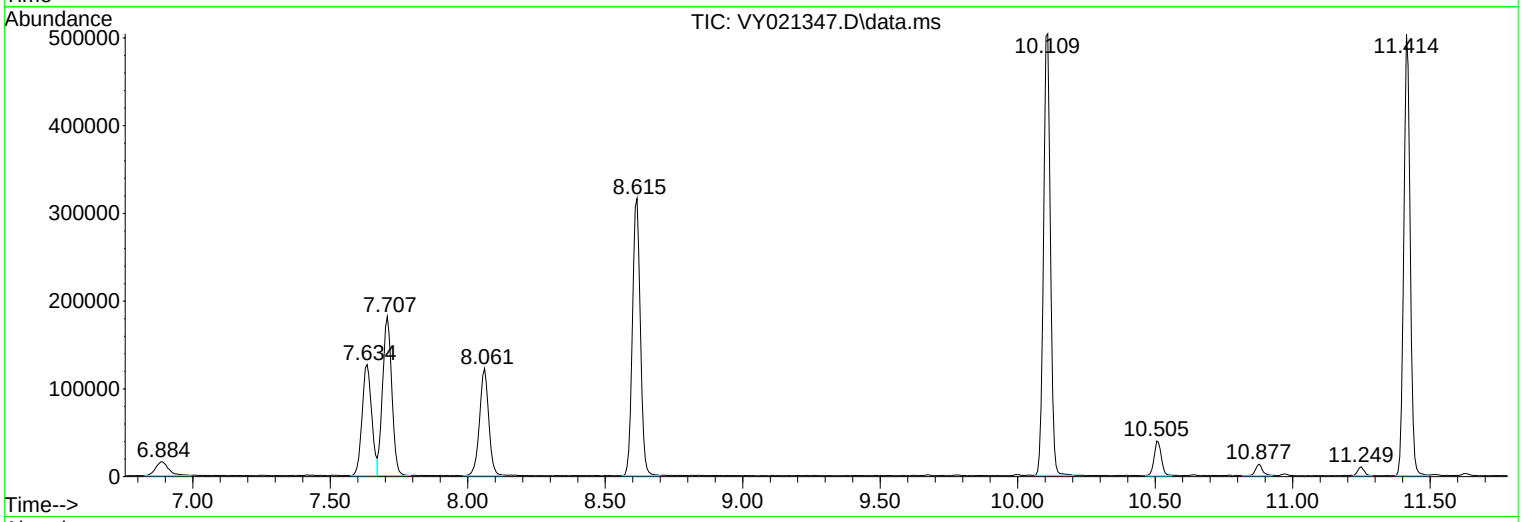
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

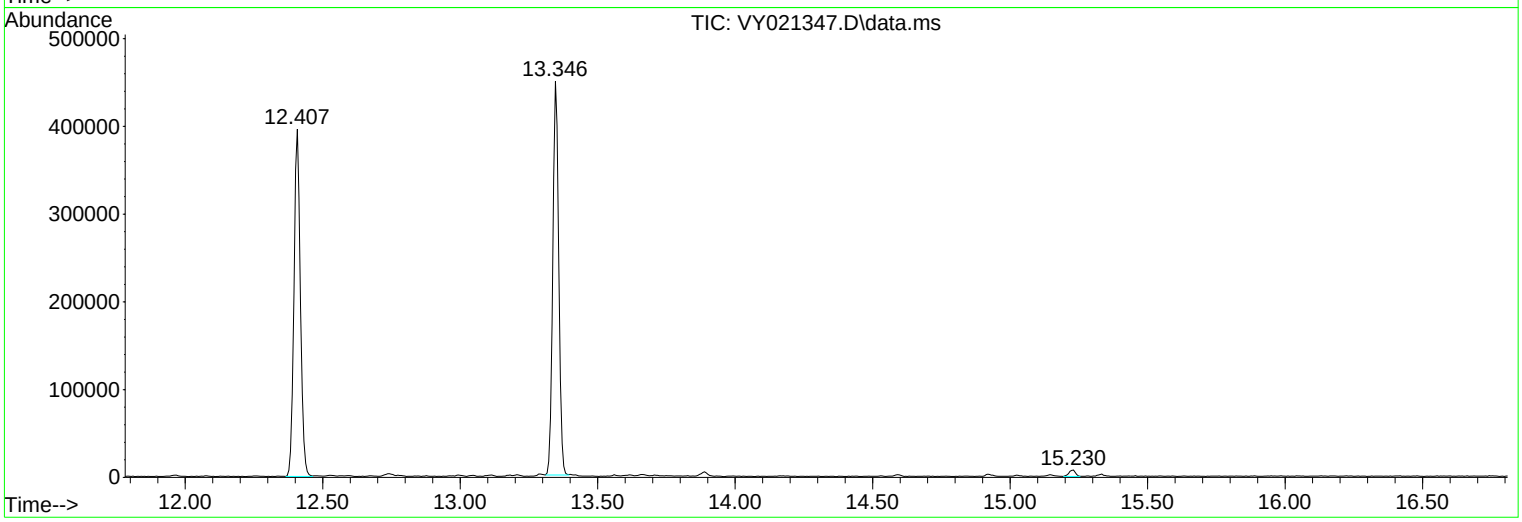
Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021347.D
Acq On : 27 Feb 2025 10:42
Operator : SY/MD
Sample : VY0227SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	257358	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	436252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	378131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	189869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161971	48.544	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.080%			
35) Dibromofluoromethane	8.165	113	137284	48.092	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.180%			
50) Toluene-d8	10.565	98	512651	49.360	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.720%			
62) 4-Bromofluorobenzene	12.847	95	174876	51.104	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	69150	19.754	ug/l	100
3) Chloromethane	2.359	50	68791	19.584	ug/l	97
4) Vinyl Chloride	2.512	62	73012	19.631	ug/l	100
5) Bromomethane	2.953	94	46451	19.532	ug/l	97
6) Chloroethane	3.118	64	47196	19.158	ug/l	96
7) Trichlorofluoromethane	3.500	101	105770	19.642	ug/l	99
8) Diethyl Ether	3.959	74	34319	19.697	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	64634	20.765	ug/l	98
10) Methyl Iodide	4.589	142	73721	19.214	ug/l	95
11) Tert butyl alcohol	5.518	59	52251	127.326	ug/l	98
12) 1,1-Dichloroethene	4.342	96	54469	19.300	ug/l	92
13) Acrolein	4.183	56	62974	103.481	ug/l	95
14) Allyl chloride	5.024	41	80176	21.637	ug/l	87
15) Acrylonitrile	5.718	53	150940	113.141	ug/l	98
16) Acetone	4.424	43	115747	109.635	ug/l	96
17) Carbon Disulfide	4.718	76	153488	18.350	ug/l	97
18) Methyl Acetate	5.018	43	81482	22.439	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	173790	20.722	ug/l	100
20) Methylene Chloride	5.271	84	69243	20.395	ug/l	96
21) trans-1,2-Dichloroethene	5.789	96	58755	19.334	ug/l	95
22) Diisopropyl ether	6.671	45	180545	21.563	ug/l	96
23) Vinyl Acetate	6.600	43	583064	101.705	ug/l	100
24) 1,1-Dichloroethane	6.565	63	116963	20.550	ug/l	99
25) 2-Butanone	7.483	43	178921	115.195	ug/l	98
26) 2,2-Dichloropropane	7.488	77	100657	19.888	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	69180	19.633	ug/l	98
28) Bromochloromethane	7.812	49	58338	24.937	ug/l	98
29) Tetrahydrofuran	7.841	42	120300	119.944	ug/l	98
30) Chloroform	7.965	83	123507	20.764	ug/l	96
31) Cyclohexane	8.253	56	88180	18.503	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	103967	19.652	ug/l	95
36) 1,1-Dichloropropene	8.371	75	78040	19.316	ug/l	99
37) Ethyl Acetate	7.559	43	74240	22.330	ug/l	97
38) Carbon Tetrachloride	8.359	117	94174	19.618	ug/l	97
39) Methylcyclohexane	9.600	83	70553	17.776	ug/l	95
40) Benzene	8.600	78	263157	20.323	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	38988	21.936	ug/l		97
42) 1,2-Dichloroethane	8.665	62	83774	19.862	ug/l		98
43) Isopropyl Acetate	8.688	43	128897	21.783	ug/l		97
44) Trichloroethene	9.347	130	59592	18.744	ug/l		98
45) 1,2-Dichloropropane	9.618	63	64913	20.768	ug/l		95
46) Dibromomethane	9.706	93	46181	20.947	ug/l		99
47) Bromodichloromethane	9.888	83	97351	20.639	ug/l		97
48) Methyl methacrylate	9.677	41	52939	21.440	ug/l		99
49) 1,4-Dioxane	9.688	88	24332	518.211	ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	379660	118.440	ug/l		98
52) Toluene	10.629	92	160367	21.128	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	88415	20.271	ug/l		98
54) cis-1,3-Dichloropropene	10.306	75	100164	20.943	ug/l		95
55) 1,1,2-Trichloroethane	11.018	97	63105	20.910	ug/l		94
56) Ethyl methacrylate	10.871	69	82410	20.627	ug/l		99
57) 1,3-Dichloropropane	11.159	76	105668	20.975	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	188414	128.915	ug/l		99
59) 2-Hexanone	11.194	43	270234	122.544	ug/l		99
60) Dibromochloromethane	11.359	129	74702	21.258	ug/l		99
61) 1,2-Dibromoethane	11.465	107	60711	21.292	ug/l		98
64) Tetrachloroethene	11.100	164	56809	19.393	ug/l		99
65) Chlorobenzene	11.888	112	173970	20.083	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	64531	20.726	ug/l		99
67) Ethyl Benzene	11.959	91	272303	20.068	ug/l		100
68) m/p-Xylenes	12.070	106	221861	43.044	ug/l		97
69) o-Xylene	12.394	106	101081	20.638	ug/l		99
70) Styrene	12.412	104	173747	20.539	ug/l		99
71) Bromoform	12.576	173	51137	22.103	ug/l	#	97
73) Isopropylbenzene	12.694	105	249636	19.191	ug/l		98
74) N-amyl acetate	12.494	43	92165	20.092	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	92003	20.554	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	73556m	17.440	ug/l		
77) Bromobenzene	12.976	156	69907	19.892	ug/l		97
78) n-propylbenzene	13.035	91	302379	20.298	ug/l		99
79) 2-Chlorotoluene	13.123	91	194800	19.571	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	218142	20.587	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	32780	22.677	ug/l		93
82) 4-Chlorotoluene	13.217	91	197799	20.046	ug/l		100
83) tert-Butylbenzene	13.435	119	172236	19.330	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	221104	21.091	ug/l		98
85) sec-Butylbenzene	13.612	105	246640	19.591	ug/l		100
86) p-Isopropyltoluene	13.729	119	201013	18.730	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	126500	19.213	ug/l		98
88) 1,4-Dichlorobenzene	13.806	146	126841	18.796	ug/l		98
89) n-Butylbenzene	14.053	91	158686	17.753	ug/l		96
90) Hexachloroethane	14.329	117	45668	19.154	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	123530	19.510	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16177	19.681	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	51385	17.032	ug/l		98
94) Hexachlorobutadiene	15.500	225	30590	16.683	ug/l		97
95) Naphthalene	15.641	128	143702	17.349	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	53096	17.530	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

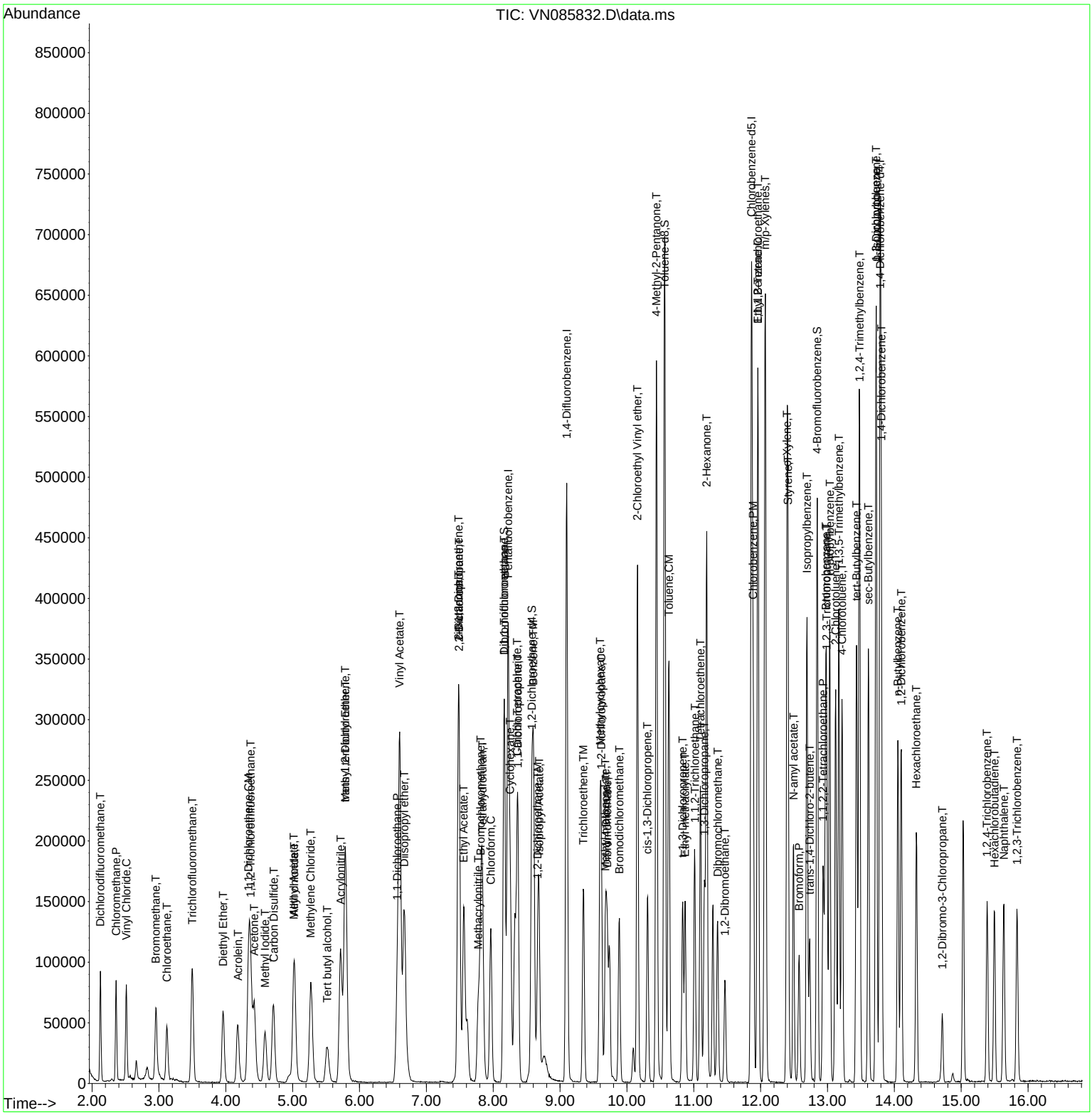
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085832.D
Acq On : 24 Feb 2025 13:03
Operator : JC\MD
Sample : VN0224WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	265043	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	437697	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	395653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	197432	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	172269	50.134	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.260%			
35) Dibromofluoromethane	8.165	113	148322	51.787	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	10.565	98	544780	52.280	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.560%			
62) 4-Bromofluorobenzene	12.847	95	184110	53.625	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	68544	19.013	ug/l	99
3) Chloromethane	2.359	50	68686	18.987	ug/l	98
4) Vinyl Chloride	2.512	62	71212	18.592	ug/l	100
5) Bromomethane	2.953	94	44318	18.095	ug/l	95
6) Chloroethane	3.118	64	45920	18.099	ug/l	96
7) Trichlorofluoromethane	3.494	101	104194	18.789	ug/l	99
8) Diethyl Ether	3.959	74	33122	18.459	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	63847	19.917	ug/l	98
10) Methyl Iodide	4.583	142	71951	18.209	ug/l	99
11) Tert butyl alcohol	5.518	59	52130	123.347	ug/l	97
12) 1,1-Dichloroethene	4.336	96	53755	18.494	ug/l	97
13) Acrolein	4.177	56	58917	94.007	ug/l	93
14) Allyl chloride	5.018	41	68034	17.828	ug/l	96
15) Acrylonitrile	5.712	53	157560	114.679	ug/l	99
16) Acetone	4.430	43	119579	109.981	ug/l	96
17) Carbon Disulfide	4.712	76	147385	17.110	ug/l	98
18) Methyl Acetate	5.024	43	85245	22.795	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	167881	19.437	ug/l	99
20) Methylene Chloride	5.271	84	66760	19.093	ug/l	97
21) trans-1,2-Dichloroethene	5.788	96	58887	18.816	ug/l	91
22) Diisopropyl ether	6.671	45	177222	20.553	ug/l	98
23) Vinyl Acetate	6.606	43	570225	96.582	ug/l	100
24) 1,1-Dichloroethane	6.565	63	116398	19.857	ug/l	99
25) 2-Butanone	7.482	43	182994	114.401	ug/l	95
26) 2,2-Dichloropropane	7.488	77	99289	19.049	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	66321	18.276	ug/l	97
28) Bromochloromethane	7.812	49	54225	22.507	ug/l	96
29) Tetrahydrofuran	7.841	42	125088	121.101	ug/l	100
30) Chloroform	7.965	83	122120	19.936	ug/l	95
31) Cyclohexane	8.253	56	84430	17.203	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	105264	19.320	ug/l	98
36) 1,1-Dichloropropene	8.371	75	76675	18.916	ug/l	99
37) Ethyl Acetate	7.559	43	78448	23.517	ug/l	99
38) Carbon Tetrachloride	8.365	117	94107	19.539	ug/l	99
39) Methylcyclohexane	9.600	83	67293	16.899	ug/l	92
40) Benzene	8.606	78	256795	19.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	39374	22.080	ug/l		96
42) 1,2-Dichloroethane	8.671	62	84230	19.905	ug/l		100
43) Isopropyl Acetate	8.688	43	127009	21.383	ug/l		99
44) Trichloroethene	9.347	130	58620	18.377	ug/l		97
45) 1,2-Dichloropropane	9.618	63	63306	20.187	ug/l		100
46) Dibromomethane	9.706	93	46442	20.996	ug/l		99
47) Bromodichloromethane	9.888	83	96402	20.371	ug/l		99
48) Methyl methacrylate	9.682	41	51937	20.965	ug/l		96
49) 1,4-Dioxane	9.694	88	25683	545.178	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.441	43	398075	123.775	ug/l		98
52) Toluene	10.629	92	158936	20.870	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	86836	19.844	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	95747	19.953	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	62995	20.805	ug/l		97
56) Ethyl methacrylate	10.871	69	82092	20.490	ug/l		98
57) 1,3-Dichloropropane	11.159	76	104501	20.675	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	198181	134.520	ug/l		98
59) 2-Hexanone	11.194	43	287511	129.948	ug/l		99
60) Dibromochloromethane	11.359	129	74709	21.189	ug/l		100
61) 1,2-Dibromoethane	11.470	107	60655	21.202	ug/l		100
64) Tetrachloroethene	11.100	164	56528	18.442	ug/l		94
65) Chlorobenzene	11.888	112	172945	19.081	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	65682	20.161	ug/l		97
67) Ethyl Benzene	11.965	91	270608	19.060	ug/l		98
68) m/p-Xylenes	12.070	106	220483	40.882	ug/l		99
69) o-Xylene	12.400	106	99401	19.396	ug/l		99
70) Styrene	12.412	104	173108	19.620	ug/l		98
71) Bromoform	12.576	173	52773	21.800	ug/l	#	96
73) Isopropylbenzene	12.694	105	246196	18.202	ug/l		97
74) N-amyl acetate	12.494	43	97676	20.478	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	95820	20.587	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	79622m	18.155	ug/l		
77) Bromobenzene	12.982	156	68892	18.852	ug/l		95
78) n-propylbenzene	13.035	91	302759	19.545	ug/l		100
79) 2-Chlorotoluene	13.123	91	196280	18.965	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	220385	20.002	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	34079	22.673	ug/l		98
82) 4-Chlorotoluene	13.223	91	201651	19.653	ug/l		100
83) tert-Butylbenzene	13.435	119	174208	18.802	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	219405	20.127	ug/l		99
85) sec-Butylbenzene	13.617	105	244227	18.656	ug/l		100
86) p-Isopropyltoluene	13.729	119	199558	17.934	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	128639	18.789	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	128477	18.309	ug/l		99
89) n-Butylbenzene	14.053	91	156665	16.856	ug/l		97
90) Hexachloroethane	14.335	117	46787	18.871	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	123362	18.737	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17037	19.934	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	52483	16.729	ug/l		100
94) Hexachlorobutadiene	15.500	225	30326	15.906	ug/l		97
95) Naphthalene	15.641	128	141301	16.406	ug/l		98
96) 1,2,3-Trichlorobenzene	15.841	180	52062	16.530	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

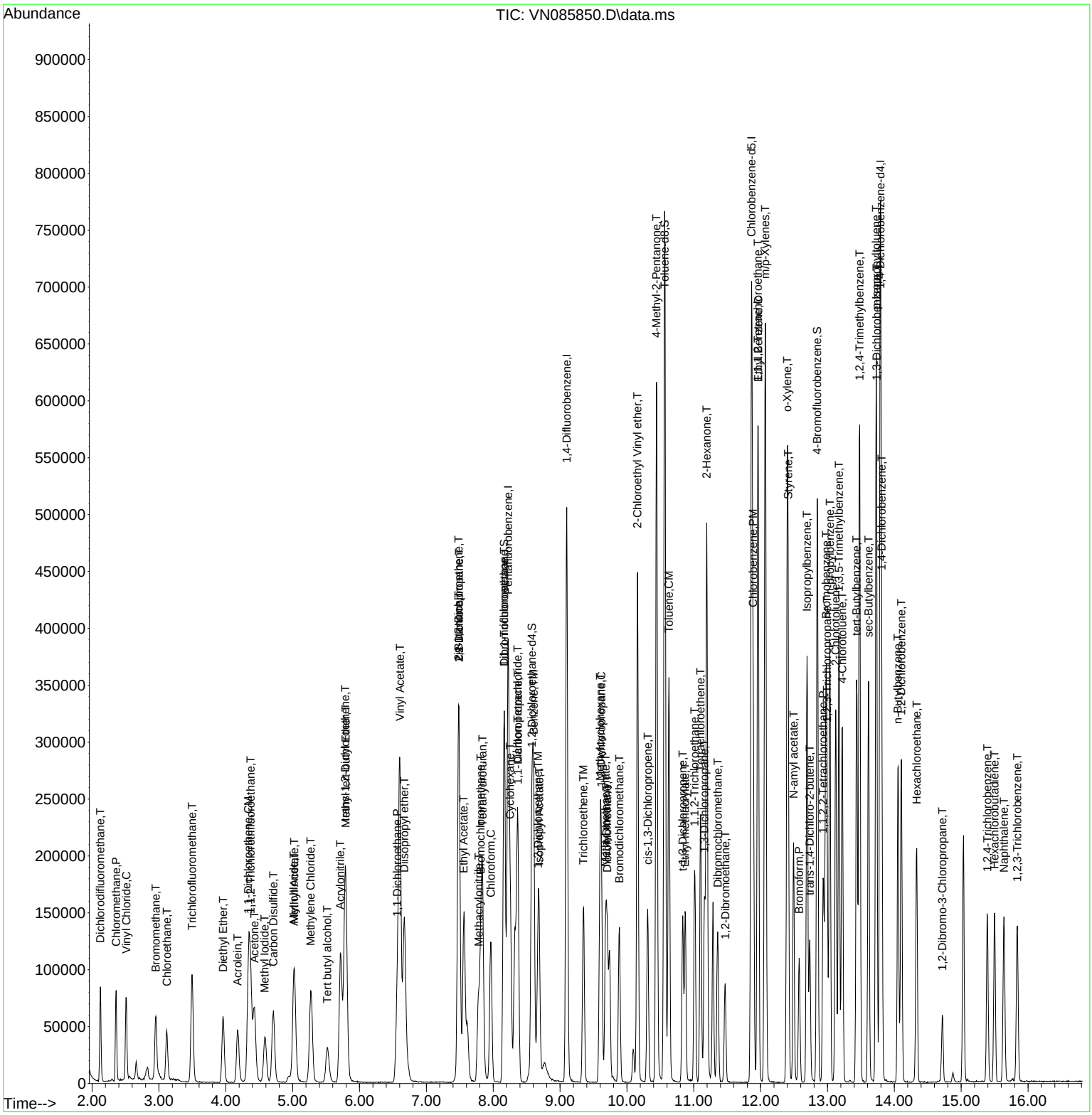
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Data File : VN085850.D
Acq On : 25 Feb 2025 12:14
Operator : JC\MD
Sample : VN0225WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 25 23:25:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0225WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	184417	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	291138	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	254891	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	128725	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	97685	46.693	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.380%			
35) Dibromofluoromethane	7.634	113	90492	47.410	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.820%			
50) Toluene-d8	10.109	98	351200	47.609	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.220%			
62) 4-Bromofluorobenzene	12.407	95	117404	47.291	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	34125	19.517	ug/l	97
3) Chloromethane	2.068	50	42771	18.941	ug/l	96
4) Vinyl Chloride	2.202	62	42765	19.295	ug/l	98
5) Bromomethane	2.592	94	28297	19.212	ug/l	100
6) Chloroethane	2.732	64	26124	19.007	ug/l	95
7) Trichlorofluoromethane	3.056	101	63673	19.022	ug/l	100
8) Diethyl Ether	3.452	74	19334	19.245	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	38299	19.763	ug/l	98
10) Methyl Iodide	4.007	142	37750	18.516	ug/l	99
11) Tert butyl alcohol	4.854	59	13942	86.641	ug/l #	90
12) 1,1-Dichloroethene	3.787	96	35305	19.026	ug/l	96
13) Acrolein	3.653	56	20005	162.231	ug/l	95
14) Allyl chloride	4.385	41	62973	19.141	ug/l	98
15) Acrylonitrile	5.061	53	42599	95.903	ug/l	99
16) Acetone	3.872	43	38073	94.873	ug/l	99
17) Carbon Disulfide	4.104	76	114721	18.619	ug/l	100
18) Methyl Acetate	4.385	43	18152	18.509	ug/l	96
19) Methyl tert-butyl Ether	5.110	73	93663	19.105	ug/l	100
20) Methylene Chloride	4.610	84	40120	18.488	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	38871	19.029	ug/l	97
22) Diisopropyl ether	6.018	45	134550	19.764	ug/l	100
23) Vinyl Acetate	5.957	43	386141	94.917	ug/l	98
24) 1,1-Dichloroethane	5.915	63	73384	19.125	ug/l	99
25) 2-Butanone	6.890	43	56272	92.910	ug/l	100
26) 2,2-Dichloropropane	6.884	77	66242	19.026	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	44795	19.204	ug/l	99
28) Bromochloromethane	7.244	49	30330	17.864	ug/l	99
29) Tetrahydrofuran	7.262	42	37274	94.152	ug/l	98
30) Chloroform	7.421	83	75017	19.294	ug/l	99
31) Cyclohexane	7.701	56	69642	18.881	ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	67879	19.180	ug/l	99
36) 1,1-Dichloropropene	7.835	75	55184	19.247	ug/l	100
37) Ethyl Acetate	6.988	43	28035	19.657	ug/l	99
38) Carbon Tetrachloride	7.817	117	61214	18.991	ug/l	96
39) Methylcyclohexane	9.109	83	68527	18.897	ug/l	97
40) Benzene	8.079	78	163641	19.308	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	12920m	16.203	ug/l		
42) 1,2-Dichloroethane	8.158	62	46152	19.193	ug/l		100
43) Isopropyl Acetate	8.195	43	51417	18.626	ug/l		99
44) Trichloroethene	8.865	130	40770	19.214	ug/l		98
45) 1,2-Dichloropropane	9.140	63	39037	19.139	ug/l		95
46) Dibromomethane	9.231	93	21795	19.549	ug/l		97
47) Bromodichloromethane	9.420	83	56650	19.056	ug/l		97
48) Methyl methacrylate	9.219	41	25014	19.377	ug/l		99
49) 1,4-Dioxane	9.231	88	4576	369.128	ug/l		97
51) 4-Methyl-2-Pentanone	9.999	43	131838	93.298	ug/l		100
52) Toluene	10.170	92	101381	19.255	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	51842	19.034	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	61986	19.278	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	27740	19.099	ug/l		97
56) Ethyl methacrylate	10.438	69	37632	18.751	ug/l		99
57) 1,3-Dichloropropane	10.719	76	49393	19.380	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	87093	90.414	ug/l		100
59) 2-Hexanone	10.761	43	87008	93.755	ug/l		99
60) Dibromochloromethane	10.908	129	38212	19.318	ug/l		100
61) 1,2-Dibromoethane	11.011	107	25849	18.799	ug/l		96
64) Tetrachloroethene	10.646	164	36984	19.197	ug/l		97
65) Chlorobenzene	11.444	112	108578	18.977	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.517	131	39302	19.617	ug/l		98
67) Ethyl Benzene	11.517	91	192592	19.003	ug/l		100
68) m/p-Xylenes	11.627	106	147929	38.806	ug/l		100
69) o-Xylene	11.956	106	69071	19.342	ug/l		99
70) Styrene	11.969	104	114447	19.262	ug/l		99
71) Bromoform	12.133	173	21872	19.083	ug/l	#	99
73) Isopropylbenzene	12.255	105	184435	19.058	ug/l		100
74) N-amyl acetate	12.072	43	44104	17.930	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	32169	18.835	ug/l		98
76) 1,2,3-Trichloropropane	12.560	75	20053m	15.563	ug/l		
77) Bromobenzene	12.529	156	42599	18.925	ug/l		98
78) n-propylbenzene	12.596	91	226845	19.317	ug/l		100
79) 2-Chlorotoluene	12.682	91	128526	19.070	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	155422	19.582	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	10066	17.364	ug/l		95
82) 4-Chlorotoluene	12.779	91	133936	19.171	ug/l		100
83) tert-Butylbenzene	12.999	119	136788	19.079	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	152431	19.310	ug/l		99
85) sec-Butylbenzene	13.176	105	204066	19.486	ug/l		100
86) p-Isopropyltoluene	13.291	119	167856	19.195	ug/l		100
87) 1,3-Dichlorobenzene	13.291	146	85257	19.148	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	84570	19.226	ug/l		99
89) n-Butylbenzene	13.621	91	155625	18.911	ug/l		100
90) Hexachloroethane	13.883	117	34224	18.736	ug/l		100
91) 1,2-Dichlorobenzene	13.663	146	73256	18.778	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5025	18.599	ug/l		93
93) 1,2,4-Trichlorobenzene	14.925	180	42148	17.702	ug/l		99
94) Hexachlorobutadiene	15.023	225	27956	18.650	ug/l		99
95) Naphthalene	15.151	128	68106	17.269	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	36072	17.931	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

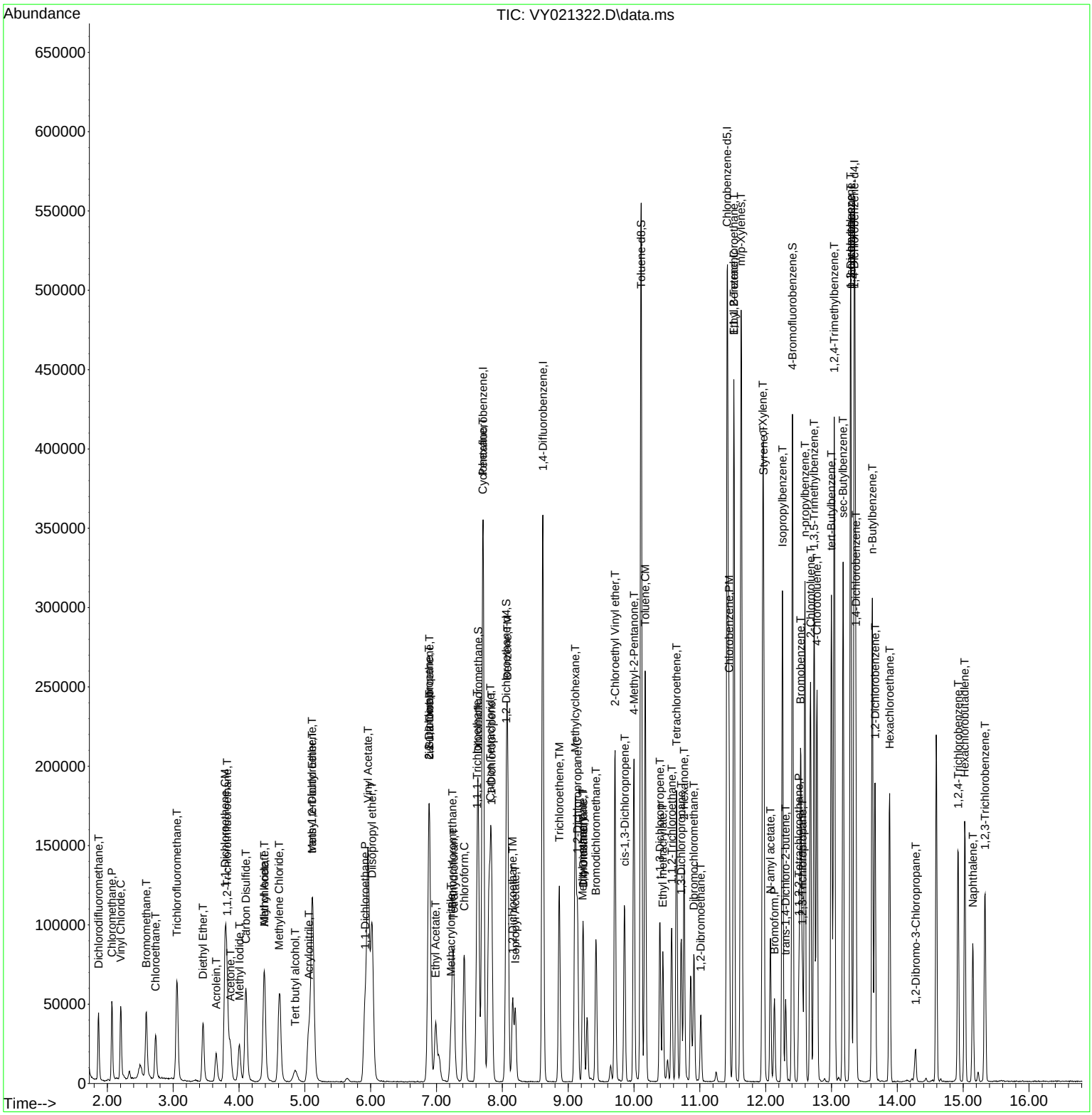
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Data File : VY021322.D
Acq On : 26 Feb 2025 11:22
Operator : SY/MD
Sample : VY0226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 27 00:35:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.707	168	199987	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	311959	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.414	117	272418	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	138215	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.061	65	116027	51.143 ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.280%		
35) Dibromofluoromethane	7.628	113	106867	52.252 ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.500%		
50) Toluene-d8	10.103	98	413664	52.334 ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.660%		
62) 4-Bromofluorobenzene	12.408	95	139307	52.368 ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 104.740%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.861	85	37086	19.559 ug/l	97
3) Chloromethane	2.068	50	45372	18.528 ug/l	98
4) Vinyl Chloride	2.202	62	46452	19.327 ug/l	97
5) Bromomethane	2.586	94	30476	19.081 ug/l	99
6) Chloroethane	2.733	64	29673	19.908 ug/l	98
7) Trichlorofluoromethane	3.056	101	73497	20.248 ug/l	99
8) Diethyl Ether	3.452	74	20917	19.199 ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	42936	20.431 ug/l	99
10) Methyl Iodide	4.001	142	41447	18.746 ug/l	100
11) Tert butyl alcohol	4.860	59	15512	88.893 ug/l	97
12) 1,1-Dichloroethene	3.787	96	39988	19.872 ug/l	94
13) Acrolein	3.647	56	22410	167.586 ug/l	95
14) Allyl chloride	4.379	41	67291	18.861 ug/l	99
15) Acrylonitrile	5.055	53	44168	91.694 ug/l	98
16) Acetone	3.866	43	46430	106.690 ug/l	99
17) Carbon Disulfide	4.104	76	123567	18.493 ug/l	100
18) Methyl Acetate	4.385	43	19413	18.253 ug/l	97
19) Methyl tert-butyl Ether	5.116	73	101763	19.141 ug/l	99
20) Methylene Chloride	4.616	84	46825	19.898 ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	43373	19.580 ug/l	97
22) Diisopropyl ether	6.019	45	143470	19.433 ug/l	98
23) Vinyl Acetate	5.958	43	413611	93.754 ug/l	99
24) 1,1-Dichloroethane	5.909	63	81302	19.539 ug/l	98
25) 2-Butanone	6.890	43	63968	97.394 ug/l	99
26) 2,2-Dichloropropane	6.878	77	75215	19.921 ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	49301	19.490 ug/l	99
28) Bromochloromethane	7.244	49	34908	18.960 ug/l	99
29) Tetrahydrofuran	7.262	42	39410	91.797 ug/l	99
30) Chloroform	7.421	83	84823	20.118 ug/l	98
31) Cyclohexane	7.701	56	74866	18.717 ug/l	96
32) 1,1,1-Trichloroethane	7.616	97	76848	20.024 ug/l	98
36) 1,1-Dichloropropene	7.835	75	60971	19.846 ug/l	99
37) Ethyl Acetate	6.988	43	28033	18.344 ug/l	97
38) Carbon Tetrachloride	7.817	117	68822	19.927 ug/l	98
39) Methylcyclohexane	9.109	83	74844	19.261 ug/l	97
40) Benzene	8.079	78	180639	19.891 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	17060m	19.967	ug/l		
42) 1,2-Dichloroethane	8.158	62	52273	20.288	ug/l		99
43) Isopropyl Acetate	8.195	43	54717	18.499	ug/l		99
44) Trichloroethene	8.866	130	45500	20.012	ug/l		97
45) 1,2-Dichloropropane	9.140	63	43265	19.796	ug/l		96
46) Dibromomethane	9.231	93	23940	20.039	ug/l		100
47) Bromodichloromethane	9.420	83	64230	20.164	ug/l		97
48) Methyl methacrylate	9.219	41	24954	18.041	ug/l		97
49) 1,4-Dioxane	9.225	88	4987	375.432	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	139296	91.997	ug/l		99
52) Toluene	10.170	92	114108	20.226	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	56809	19.466	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	66736	19.370	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	31323	20.127	ug/l		98
56) Ethyl methacrylate	10.438	69	41028	19.079	ug/l		97
57) 1,3-Dichloropropane	10.713	76	54720	20.037	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	96301	93.300	ug/l		99
59) 2-Hexanone	10.762	43	95328	95.864	ug/l		100
60) Dibromochloromethane	10.914	129	41937	19.786	ug/l		99
61) 1,2-Dibromoethane	11.012	107	28803	19.549	ug/l		98
64) Tetrachloroethene	10.646	164	40978	19.901	ug/l		97
65) Chlorobenzene	11.438	112	121107	19.805	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	43712	20.415	ug/l		100
67) Ethyl Benzene	11.518	91	217521	20.082	ug/l		98
68) m/p-Xylenes	11.627	106	164558	40.391	ug/l		100
69) o-Xylene	11.956	106	75583	19.803	ug/l		99
70) Styrene	11.969	104	125803	19.811	ug/l		99
71) Bromoform	12.133	173	24353	19.881	ug/l	#	99
73) Isopropylbenzene	12.255	105	206205	19.845	ug/l		99
74) N-amyl acetate	12.072	43	47320	17.916	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34737	18.942	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	25901m	18.722	ug/l		
77) Bromobenzene	12.530	156	47735	19.751	ug/l		97
78) n-propylbenzene	12.597	91	251702	19.962	ug/l		100
79) 2-Chlorotoluene	12.682	91	142369	19.674	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	170506	20.007	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	11755	18.885	ug/l		99
82) 4-Chlorotoluene	12.780	91	149541	19.935	ug/l		99
83) tert-Butylbenzene	12.999	119	154147	20.024	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	170349	20.098	ug/l		100
85) sec-Butylbenzene	13.176	105	225031	20.012	ug/l		99
86) p-Isopropyltoluene	13.292	119	187791	20.000	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	95671	20.011	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	93607	19.820	ug/l		98
89) n-Butylbenzene	13.621	91	175070	19.813	ug/l		100
90) Hexachloroethane	13.883	117	38407	19.583	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	82275	19.642	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5427	18.707	ug/l		98
93) 1,2,4-Trichlorobenzene	14.925	180	46899	18.345	ug/l		99
94) Hexachlorobutadiene	15.029	225	31841	19.783	ug/l		100
95) Naphthalene	15.145	128	73424	17.339	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	40776	18.878	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

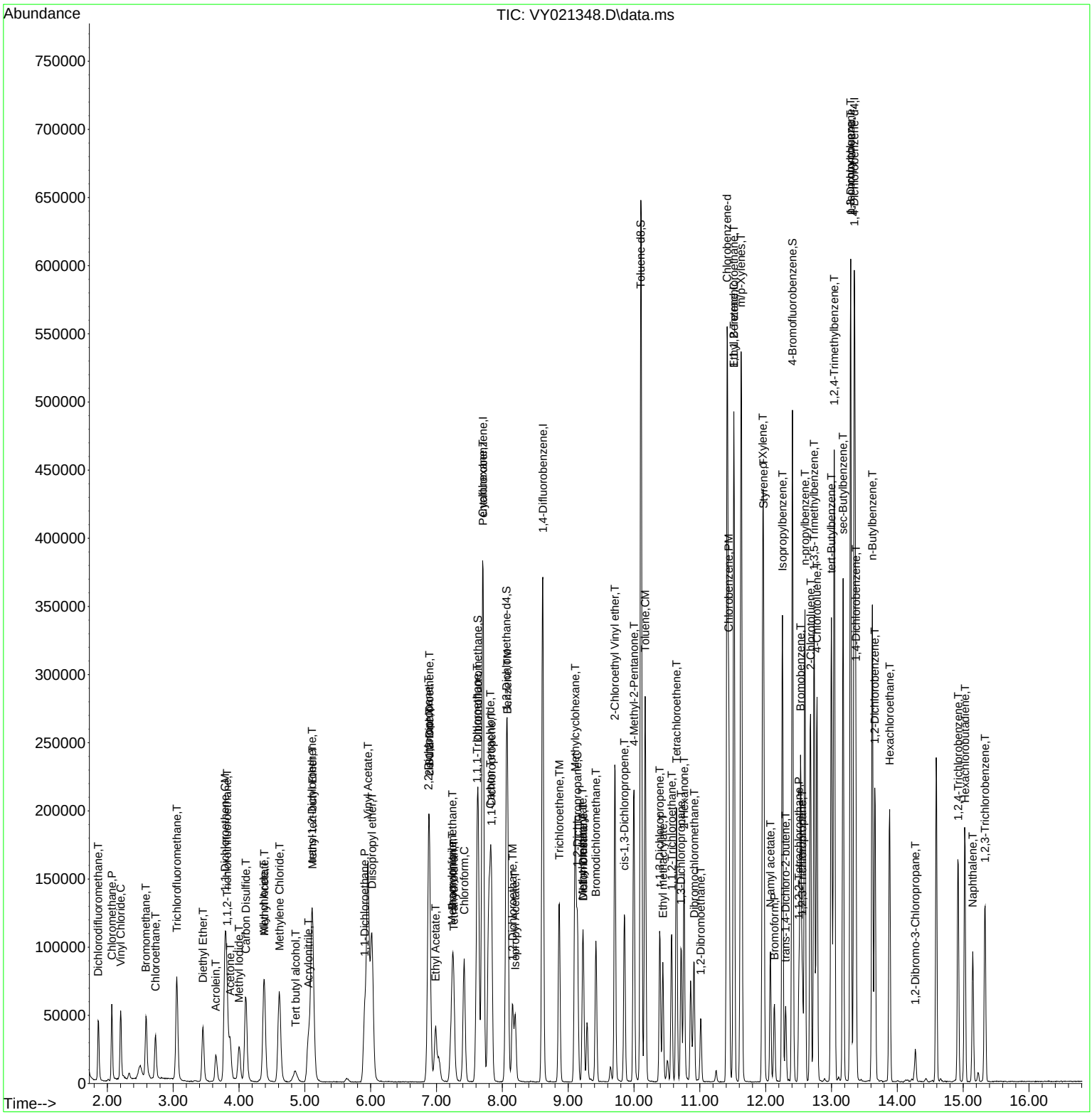
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022725\
Data File : VY021348.D
Acq On : 27 Feb 2025 11:18
Operator : SY/MD
Sample : VY0227SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 00:40:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0227SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 02/28/2025
Supervised By :Semsettin Yesilyurt 02/28/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	254490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	420351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	372649	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	182403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161563	48.968	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.940%			
35) Dibromofluoromethane	8.165	113	136434	49.602	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.200%			
50) Toluene-d8	10.565	98	500928	50.056	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.120%			
62) 4-Bromofluorobenzene	12.847	95	171801	52.105	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	67546	19.513	ug/l	100
3) Chloromethane	2.359	50	69293	19.949	ug/l	96
4) Vinyl Chloride	2.512	62	70256	19.103	ug/l	100
5) Bromomethane	2.959	94	44608	18.969	ug/l	95
6) Chloroethane	3.118	64	46079	18.915	ug/l	94
7) Trichlorofluoromethane	3.495	101	102673	19.282	ug/l	94
8) Diethyl Ether	3.959	74	34433	19.985	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	61837	20.090	ug/l	98
10) Methyl Iodide	4.589	142	74336	19.593	ug/l	97
11) Tert butyl alcohol	5.518	59	52556	129.512	ug/l	99
12) 1,1-Dichloroethene	4.342	96	55272	19.805	ug/l	94
13) Acrolein	4.177	56	65668	109.124	ug/l	97
14) Allyl chloride	5.018	41	68902	18.804	ug/l	96
15) Acrylonitrile	5.718	53	155867	118.151	ug/l	98
16) Acetone	4.424	43	120571	115.491	ug/l	93
17) Carbon Disulfide	4.712	76	146999	17.772	ug/l	100
18) Methyl Acetate	5.018	43	84210	23.452	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	173460	20.916	ug/l	98
20) Methylene Chloride	5.277	84	67489	20.102	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	57869	19.257	ug/l	98
22) Diisopropyl ether	6.665	45	176742	21.347	ug/l	96
23) Vinyl Acetate	6.600	43	593068	104.616	ug/l	99
24) 1,1-Dichloroethane	6.571	63	114160	20.283	ug/l	99
25) 2-Butanone	7.477	43	183586	119.531	ug/l	98
26) 2,2-Dichloropropane	7.488	77	97025	19.386	ug/l	98
27) cis-1,2-Dichloroethene	7.488	96	68278	19.596	ug/l	97
28) Bromochloromethane	7.812	49	57799	24.985	ug/l	96
29) Tetrahydrofuran	7.835	42	124442	125.472	ug/l	99
30) Chloroform	7.965	83	118725	20.185	ug/l	92
31) Cyclohexane	8.253	56	85444	18.131	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	101538	19.409	ug/l	97
36) 1,1-Dichloropropene	8.371	75	77066	19.797	ug/l	99
37) Ethyl Acetate	7.559	43	75890	23.689	ug/l	98
38) Carbon Tetrachloride	8.359	117	91756	19.837	ug/l	99
39) Methylcyclohexane	9.600	83	69336	18.130	ug/l	95
40) Benzene	8.606	78	255468	20.476	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	37867	22.112	ug/l		94
42) 1,2-Dichloroethane	8.671	62	82936	20.408	ug/l		100
43) Isopropyl Acetate	8.688	43	132861	23.340	ug/l		98
44) Trichloroethene	9.347	130	58457	19.082	ug/l		99
45) 1,2-Dichloropropane	9.618	63	62593	20.784	ug/l		95
46) Dibromomethane	9.706	93	45573	21.453	ug/l		99
47) Bromodichloromethane	9.882	83	94873	20.875	ug/l		100
48) Methyl methacrylate	9.677	41	53084	22.312	ug/l		98
49) 1,4-Dioxane	9.688	88	23894	528.132	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.441	43	384206	124.392	ug/l		100
52) Toluene	10.629	92	154597	21.138	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	91440	21.758	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	95689	20.764	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	64471	22.171	ug/l		94
56) Ethyl methacrylate	10.871	69	82880	21.466	ug/l		98
57) 1,3-Dichloropropane	11.159	76	102761	21.169	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	194148	136.927	ug/l		100
59) 2-Hexanone	11.194	43	276584	130.168	ug/l		99
60) Dibromochloromethane	11.359	129	74225	21.921	ug/l		99
61) 1,2-Dibromoethane	11.465	107	60464	22.007	ug/l		98
64) Tetrachloroethene	11.100	164	55733	19.305	ug/l		93
65) Chlorobenzene	11.888	112	169493	19.854	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	64196	20.921	ug/l		99
67) Ethyl Benzene	11.959	91	264854	19.806	ug/l		98
68) m/p-Xylenes	12.070	106	215709	42.466	ug/l		98
69) o-Xylene	12.394	106	98161	20.336	ug/l		99
70) Styrene	12.412	104	170947	20.508	ug/l		99
71) Bromoform	12.576	173	50313	22.067	ug/l	#	99
73) Isopropylbenzene	12.694	105	243501	19.486	ug/l		100
74) N-amyl acetate	12.494	43	94407	21.423	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	91358	21.245	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	84006m	20.733	ug/l		
77) Bromobenzene	12.976	156	67340	19.946	ug/l		95
78) n-propylbenzene	13.035	91	294534	20.580	ug/l		100
79) 2-Chlorotoluene	13.123	91	189193	19.786	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	210864	20.715	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	32945	23.724	ug/l		90
82) 4-Chlorotoluene	13.217	91	193783	20.443	ug/l		100
83) tert-Butylbenzene	13.435	119	165247	19.304	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	212701	21.120	ug/l		99
85) sec-Butylbenzene	13.617	105	241530	19.970	ug/l		100
86) p-Isopropyltoluene	13.729	119	197164	19.099	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	126447	19.991	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	125945	19.427	ug/l		100
89) n-Butylbenzene	14.053	91	155594	18.120	ug/l		97
90) Hexachloroethane	14.329	117	44767	19.544	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	122292	20.105	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	16882	21.380	ug/l		100
93) 1,2,4-Trichlorobenzene	15.394	180	53723	18.536	ug/l		98
94) Hexachlorobutadiene	15.500	225	30704	17.431	ug/l		95
95) Naphthalene	15.641	128	153679	19.313	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	55549	19.091	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022425\
Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

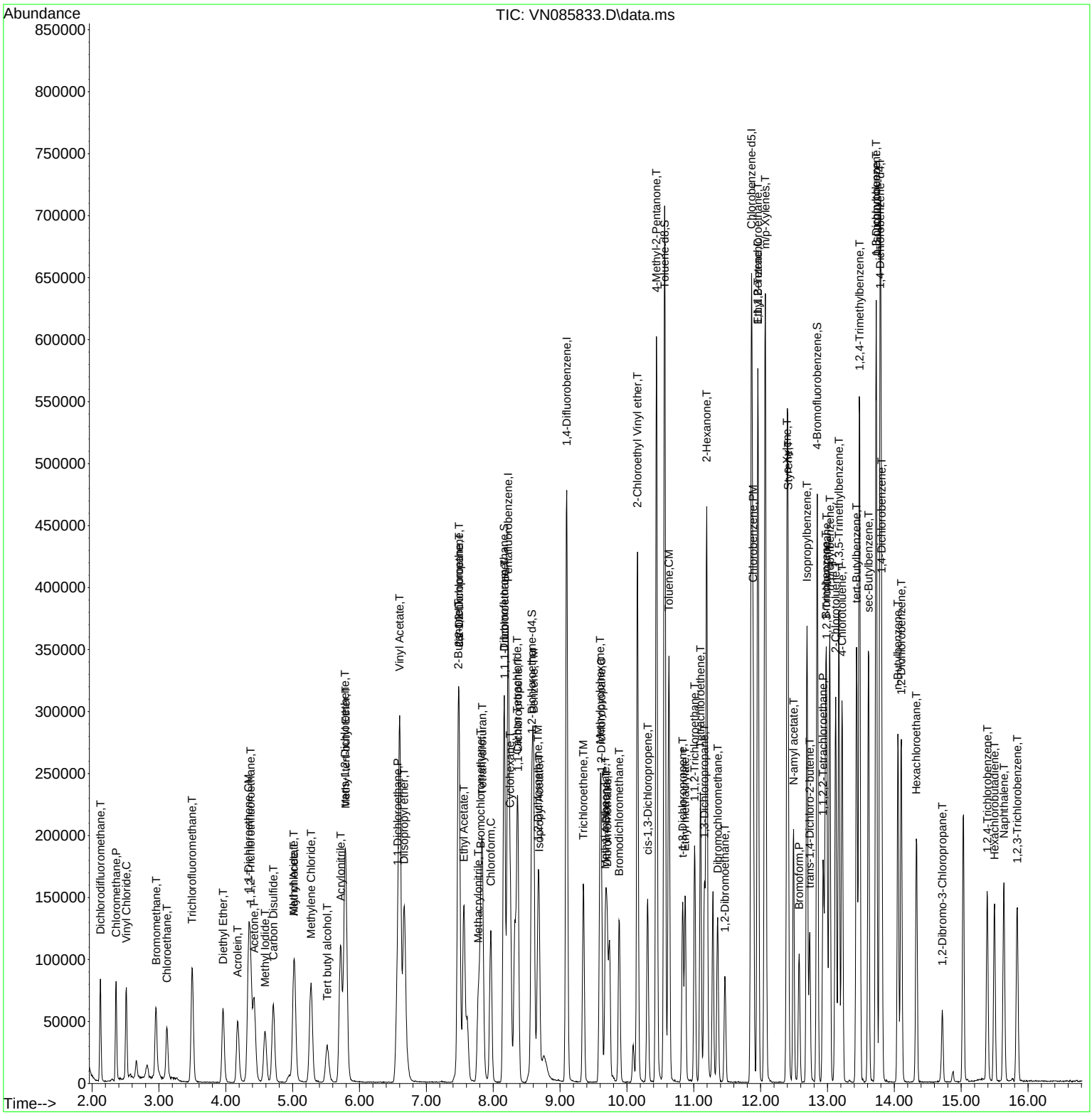
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Data File : VN085833.D
Acq On : 24 Feb 2025 13:36
Operator : JC\MD
Sample : VN0224WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 25 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0224WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/25/2025
Supervised By :Mahesh Dadoda 02/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	186200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	292071	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	258744	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	129829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	102341	48.451	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.900%			
35) Dibromofluoromethane	7.634	113	94057	49.120	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.240%			
50) Toluene-d8	10.103	98	369458	49.924	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.840%			
62) 4-Bromofluorobenzene	12.408	95	125203	50.271	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	33929	19.219	ug/l	98
3) Chloromethane	2.068	50	44643	19.581	ug/l	94
4) Vinyl Chloride	2.202	62	43431	19.408	ug/l	95
5) Bromomethane	2.586	94	28875	19.417	ug/l	91
6) Chloroethane	2.732	64	27157	19.569	ug/l	98
7) Trichlorofluoromethane	3.056	101	64725	19.152	ug/l	98
8) Diethyl Ether	3.452	74	19301	19.028	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	39047	19.956	ug/l	99
10) Methyl Iodide	4.000	142	38731	18.815	ug/l	99
11) Tert butyl alcohol	4.848	59	15317	94.274	ug/l	97
12) 1,1-Dichloroethene	3.787	96	35945	19.186	ug/l	98
13) Acrolein	3.647	56	22337	179.408	ug/l	96
14) Allyl chloride	4.385	41	64619	19.454	ug/l	99
15) Acrylonitrile	5.049	53	42848	95.540	ug/l	99
16) Acetone	3.866	43	36994	91.302	ug/l	96
17) Carbon Disulfide	4.104	76	119697	19.240	ug/l	99
18) Methyl Acetate	4.378	43	19000	19.188	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	96512	19.498	ug/l	98
20) Methylene Chloride	4.616	84	41428	18.908	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	39986	19.387	ug/l	97
22) Diisopropyl ether	6.018	45	136570	19.868	ug/l	97
23) Vinyl Acetate	5.957	43	400683	97.548	ug/l	98
24) 1,1-Dichloroethane	5.915	63	75455	19.476	ug/l	100
25) 2-Butanone	6.896	43	57737	94.416	ug/l	100
26) 2,2-Dichloropropane	6.884	77	67846	19.300	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	46880	19.905	ug/l	98
28) Bromochloromethane	7.238	49	34082	19.882	ug/l	99
29) Tetrahydrofuran	7.262	42	39639	99.167	ug/l	97
30) Chloroform	7.421	83	76696	19.537	ug/l	98
31) Cyclohexane	7.701	56	71145	19.104	ug/l #	94
32) 1,1,1-Trichloroethane	7.610	97	68700	19.226	ug/l	99
36) 1,1-Dichloropropene	7.835	75	57651	20.043	ug/l	99
37) Ethyl Acetate	6.982	43	28136	19.665	ug/l	100
38) Carbon Tetrachloride	7.817	117	63336	19.587	ug/l	99
39) Methylcyclohexane	9.109	83	71099	19.543	ug/l	99
40) Benzene	8.079	78	169384	19.922	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	16363	20.455	ug/l	#	73
42) 1,2-Dichloroethane	8.158	62	47566	19.718	ug/l		100
43) Isopropyl Acetate	8.195	43	54330	19.618	ug/l		99
44) Trichloroethene	8.865	130	41805	19.638	ug/l		97
45) 1,2-Dichloropropane	9.140	63	40089	19.592	ug/l		99
46) Dibromomethane	9.231	93	21727	19.425	ug/l		100
47) Bromodichloromethane	9.420	83	58116	19.487	ug/l		100
48) Methyl methacrylate	9.219	41	23787	18.368	ug/l		94
49) 1,4-Dioxane	9.225	88	4464	358.943	ug/l		99
51) 4-Methyl-2-Pentanone	9.999	43	138572	97.751	ug/l		99
52) Toluene	10.170	92	104255	19.738	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	53978	19.755	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	62124	19.260	ug/l		95
55) 1,1,2-Trichloroethane	10.572	97	28227	19.373	ug/l		96
56) Ethyl methacrylate	10.438	69	39319	19.530	ug/l		99
57) 1,3-Dichloropropane	10.713	76	51397	20.102	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	90024	93.158	ug/l		100
59) 2-Hexanone	10.761	43	89865	96.524	ug/l		99
60) Dibromochloromethane	10.914	129	39272	19.790	ug/l		98
61) 1,2-Dibromoethane	11.018	107	26713	19.365	ug/l		96
64) Tetrachloroethene	10.646	164	38493	19.682	ug/l		99
65) Chlorobenzene	11.444	112	113821	19.597	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	39353	19.350	ug/l		98
67) Ethyl Benzene	11.517	91	197780	19.225	ug/l		100
68) m/p-Xylenes	11.627	106	149341	38.593	ug/l		98
69) o-Xylene	11.956	106	70486	19.444	ug/l		99
70) Styrene	11.969	104	119367	19.791	ug/l		99
71) Bromoform	12.133	173	22170	19.055	ug/l	#	100
73) Isopropylbenzene	12.255	105	192163	19.688	ug/l		99
74) N-amyl acetate	12.072	43	47929	19.319	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	33436	19.410	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	19345m	14.886	ug/l		
77) Bromobenzene	12.529	156	44137	19.442	ug/l		99
78) n-propylbenzene	12.596	91	231519	19.547	ug/l		100
79) 2-Chlorotoluene	12.682	91	132259	19.457	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	157749	19.706	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	10784	18.445	ug/l		95
82) 4-Chlorotoluene	12.779	91	136654	19.394	ug/l		100
83) tert-Butylbenzene	12.999	119	139478	19.288	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	156482	19.655	ug/l		100
85) sec-Butylbenzene	13.176	105	207160	19.613	ug/l		99
86) p-Isopropyltoluene	13.291	119	172280	19.534	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	88325	19.668	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	87772	19.784	ug/l		99
89) n-Butylbenzene	13.621	91	162070	19.527	ug/l		100
90) Hexachloroethane	13.883	117	35761	19.411	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	76555	19.457	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	4895	17.963	ug/l		95
93) 1,2,4-Trichlorobenzene	14.925	180	45740	19.047	ug/l		100
94) Hexachlorobutadiene	15.023	225	28899	19.115	ug/l		98
95) Naphthalene	15.145	128	73713	18.532	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	38421	18.936	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

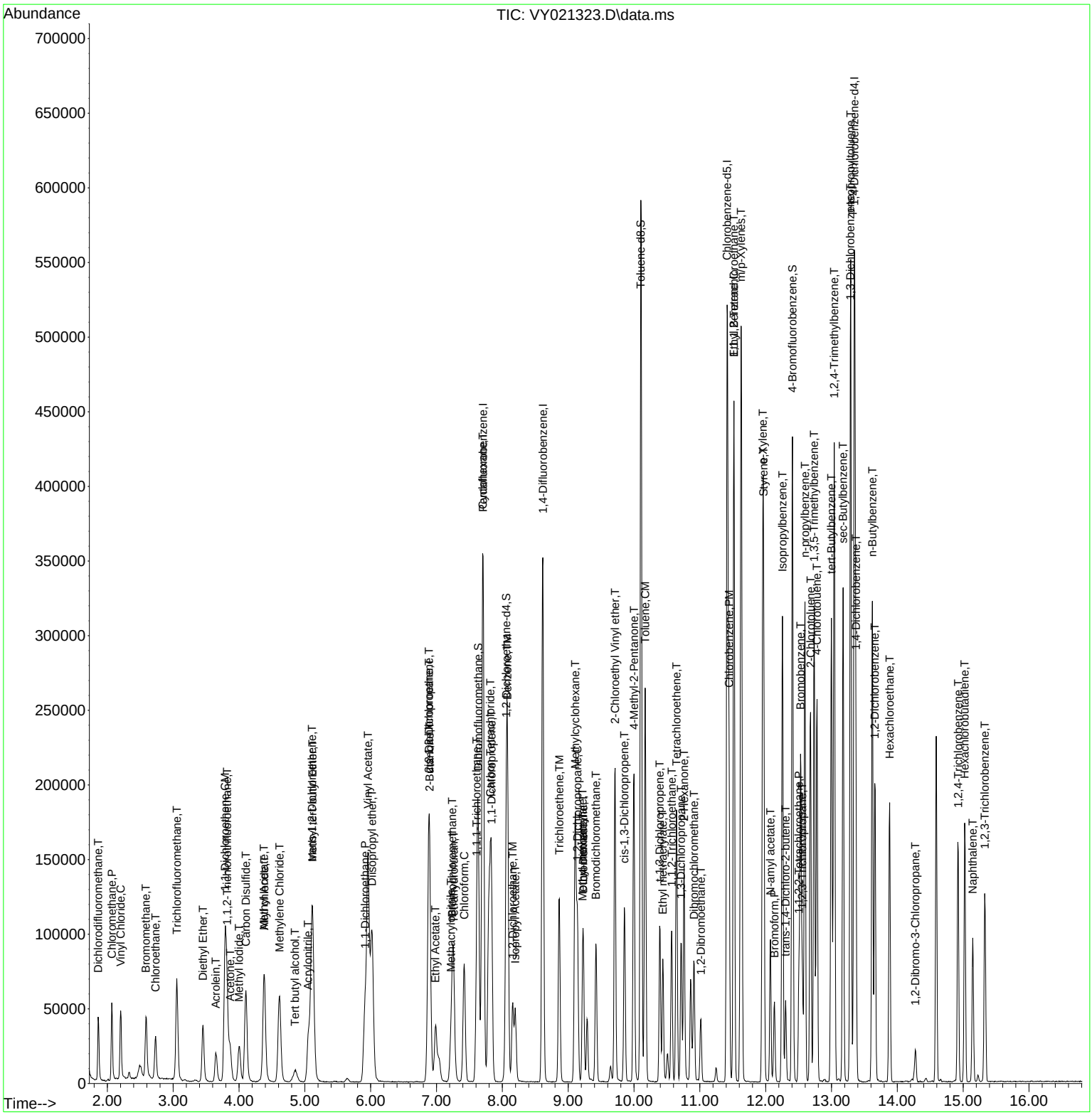
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022625\
Data File : VY021323.D
Acq On : 26 Feb 2025 11:44
Operator : SY/MD
Sample : VY0226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 00:36:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022525S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 26 02:09:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0226SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085772.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:09 AM	MMDadoda	2/19/2025 12:44:43 PM	Peak Integrated by Software
VSTDICCC050	VN085773.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:14 AM	MMDadoda	2/19/2025 12:44:47 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC010	VN085775.D	Vinyl Acetate	JOHN	2/19/2025 9:44:23 AM	MMDadoda	2/19/2025 12:44:56 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC005	VN085776.D	Vinyl Acetate	JOHN	2/19/2025 9:44:27 AM	MMDadoda	2/19/2025 12:45:01 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	1,4-Dichlorobenzene	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	2,2-Dichloropropane	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Allyl chloride	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Diethyl Ether	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC001	VN085777.D	Vinyl Acetate	JOHN	2/19/2025 9:44:33 AM	MMDadoda	2/19/2025 12:45:05 PM	Peak Integrated by Software
VSTDICC020	VN085779.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:37 AM	MMDadoda	2/19/2025 12:45:09 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN021825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085780.D	1,2,3-Trichloropropane	JOHN	2/19/2025 9:44:42 AM	MMDadoda	2/19/2025 12:45:13 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn022425	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085829.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:52 AM	MMDadoda	2/25/2025 2:29:16 PM	Peak Integrated by Software
VN0224WBS01	VN085832.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:39:56 AM	MMDadoda	2/25/2025 2:29:13 PM	Peak Integrated by Software
VN0224WBSD01	VN085833.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:40:00 AM	MMDadoda	2/25/2025 2:29:12 PM	Peak Integrated by Software
VSTDCCC050	VN085845.D	1,2,3-Trichloropropane	JOHN	2/25/2025 9:40:17 AM	MMDadoda	2/25/2025 2:29:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN022525	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085847.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:17 AM	MMDadoda	2/26/2025 1:46:18 PM	Peak Integrated by Software
VN0225WBS01	VN085850.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:22 AM	MMDadoda	2/26/2025 1:46:20 PM	Peak Integrated by Software
VSTDCCC050	VN085860.D	1,2,3-Trichloropropane	JOHN	2/26/2025 9:36:36 AM	MMDadoda	2/26/2025 1:46:25 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VY022525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY021309.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC005	VY021309.D	Methacrylonitrile	Romaben	2/26/2025 10:45:25 AM	MMDadoda	2/26/2025 1:44:30 PM	Peak Integrated by Software
VSTDICC010	VY021310.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:29 AM	MMDadoda	2/26/2025 1:44:32 PM	Peak Integrated by Software
VSTDICC020	VY021311.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:33 AM	MMDadoda	2/26/2025 1:44:34 PM	Peak Integrated by Software
VSTDICCC050	VY021312.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:52 AM	MMDadoda	2/26/2025 1:44:36 PM	Peak Integrated by Software
VSTDICC150	VY021314.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:40 AM	MMDadoda	2/26/2025 1:44:39 PM	Peak Integrated by Software
VSTDICC100	VY021316.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:43 AM	MMDadoda	2/26/2025 1:44:41 PM	Peak Integrated by Software
VSTDICV050	VY021317.D	1,2,3-Trichloropropane	Romaben	2/26/2025 10:45:47 AM	MMDadoda	2/26/2025 1:44:42 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VY022625	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021320.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:36:03 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBS01	VY021322.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:35:58 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBS01	VY021322.D	Methacrylonitrile	Romaben	2/27/2025 9:35:58 AM	MMDadoda	2/27/2025 12:12:27 PM	Peak Integrated by Software
VY0226SBSD01	VY021323.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:35:54 AM	MMDadoda	2/27/2025 12:12:28 PM	Peak Integrated by Software
Q1415-04	VY021337.D	Tert butyl alcohol	Romaben	2/27/2025 9:35:51 AM	MMDadoda	2/27/2025 12:12:29 PM	Peak Integrated by Software
VSTDCCC050	VY021344.D	1,2,3-Trichloropropane	Romaben	2/27/2025 9:36:17 AM	MMDadoda	2/27/2025 12:12:34 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY022725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021346.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:30 AM	SAM	2/28/2025 11:10:54 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VY0227SBS01	VY021348.D	Methacrylonitrile	MMDadoda	2/28/2025 11:07:33 AM	SAM	2/28/2025 11:10:55 AM	Peak Integrated by Software
VSTDCCC050	VY021373.D	1,2,3-Trichloropropane	MMDadoda	2/28/2025 11:07:40 AM	SAM	2/28/2025 11:10:58 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/19/2025 1:34:51 PM		
SubDirectory	VN021825	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133068
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133076
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085771.D	18 Feb 2025 10:35	JC\MD	Ok
2	VSTDICC100	VN085772.D	18 Feb 2025 11:09	JC\MD	Ok,M
3	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	JC\MD	Ok,M
4	VSTDICC020	VN085774.D	18 Feb 2025 11:56	JC\MD	Not Ok
5	VSTDICC010	VN085775.D	18 Feb 2025 12:20	JC\MD	Ok,M
6	VSTDICC005	VN085776.D	18 Feb 2025 12:43	JC\MD	Ok,M
7	VSTDICC001	VN085777.D	18 Feb 2025 13:07	JC\MD	Ok,M
8	IBLK	VN085778.D	18 Feb 2025 13:54	JC\MD	Ok
9	VSTDICC020	VN085779.D	18 Feb 2025 14:18	JC\MD	Ok,M
10	VSTDICV050	VN085780.D	18 Feb 2025 16:28	JC\MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM		
SubDirectory	VN022425	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133126
Initial Calibration Stds	
CCC	VP133127,VP133128
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085828.D	24 Feb 2025 10:50	JC\MD	Ok
2	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	JC\MD	Ok,M
3	VN0224MBL01	VN085830.D	24 Feb 2025 12:15	JC\MD	Ok
4	VN0224WBL01	VN085831.D	24 Feb 2025 12:39	JC\MD	Ok
5	VN0224WBS01	VN085832.D	24 Feb 2025 13:03	JC\MD	Ok,M
6	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36	JC\MD	Ok,M
7	Q1405-02DL	VN085834.D	24 Feb 2025 14:00	JC\MD	Ok
8	Q1405-03	VN085835.D	24 Feb 2025 14:24	JC\MD	Ok
9	Q1405-04	VN085836.D	24 Feb 2025 14:49	JC\MD	Ok,M
10	Q1405-05	VN085837.D	24 Feb 2025 15:13	JC\MD	Ok
11	Q1405-11	VN085838.D	24 Feb 2025 15:37	JC\MD	Ok
12	Q1415-05	VN085839.D	24 Feb 2025 16:01	JC\MD	ReRun
13	Q1405-07	VN085840.D	24 Feb 2025 16:26	JC\MD	Ok
14	Q1405-08	VN085841.D	24 Feb 2025 16:50	JC\MD	Ok
15	Q1405-09	VN085842.D	24 Feb 2025 17:14	JC\MD	Ok
16	Q1405-10	VN085843.D	24 Feb 2025 17:38	JC\MD	Ok
17	Q1415-06	VN085844.D	24 Feb 2025 18:02	JC\MD	Ok
18	VSTDCCC050	VN085845.D	24 Feb 2025 18:26	JC\MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022525

Review By	John Carlone	Review On	2/26/2025 9:38:40 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:46:27 PM		
SubDirectory	VN022525	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133142
Initial Calibration Stds	
CCC	VP133144,VP133145
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085846.D	25 Feb 2025 10:11	JC\MD	Ok
2	VSTDCCC050	VN085847.D	25 Feb 2025 10:45	JC\MD	Ok,M
3	VN0225MBL01	VN085848.D	25 Feb 2025 11:19	JC\MD	Ok
4	VN0225WBL01	VN085849.D	25 Feb 2025 11:43	JC\MD	Ok
5	VN0225WBS01	VN085850.D	25 Feb 2025 12:14	JC\MD	Ok,M
6	VN0225WBSD01	VN085851.D	25 Feb 2025 12:48	JC\MD	Ok,M
7	IBLK	VN085852.D	25 Feb 2025 13:12	JC\MD	Ok
8	Q1415-05	VN085853.D	25 Feb 2025 13:36	JC\MD	Ok
9	VN0225MBS01	VN085854.D	25 Feb 2025 14:00	JC\MD	Ok,M
10	Q1395-01	VN085855.D	25 Feb 2025 14:24	JC\MD	Dilution
11	IBLK	VN085856.D	25 Feb 2025 14:49	JC\MD	Ok
12	IBLK	VN085857.D	25 Feb 2025 15:13	JC\MD	Ok
13	Q1395-01DL	VN085858.D	25 Feb 2025 15:37	JC\MD	Ok
14	IBLK	VN085859.D	25 Feb 2025 16:15	JC\MD	Ok
15	VSTDCCC050	VN085860.D	25 Feb 2025 16:42	JC\MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021308.D	25 Feb 2025 12:10	SY/MD	Ok
2	VSTDICC005	VY021309.D	25 Feb 2025 12:40	SY/MD	Ok,M
3	VSTDICC010	VY021310.D	25 Feb 2025 13:03	SY/MD	Ok,M
4	VSTDICC020	VY021311.D	25 Feb 2025 13:26	SY/MD	Ok,M
5	VSTDICCC050	VY021312.D	25 Feb 2025 14:48	SY/MD	Ok,M
6	VSTDICC100	VY021313.D	25 Feb 2025 15:34	SY/MD	Not Ok
7	VSTDICC150	VY021314.D	25 Feb 2025 15:57	SY/MD	Ok,M
8	VIBLK	VY021315.D	25 Feb 2025 16:24	SY/MD	Ok
9	VSTDICC100	VY021316.D	25 Feb 2025 16:49	SY/MD	Ok,M
10	VSTDICV050	VY021317.D	25 Feb 2025 17:31	SY/MD	Ok,M
11	VIBLK	VY021318.D	25 Feb 2025 17:54	SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM				
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021319.D	26 Feb 2025 09:12	SY/MD	Ok
2	VSTDCCC050	VY021320.D	26 Feb 2025 10:11	SY/MD	Ok,M
3	VY0226SBL01	VY021321.D	26 Feb 2025 10:50	SY/MD	Ok
4	VY0226SBS01	VY021322.D	26 Feb 2025 11:22	SY/MD	Ok,M
5	VY0226SBSD01	VY021323.D	26 Feb 2025 11:44	SY/MD	Ok,M
6	Q1416-01	VY021324.D	26 Feb 2025 12:20	SY/MD	ReRun
7	Q1413-02	VY021325.D	26 Feb 2025 12:43	SY/MD	ReRun
8	Q1418-01	VY021326.D	26 Feb 2025 13:07	SY/MD	Ok
9	Q1413-02RE	VY021327.D	26 Feb 2025 13:30	SY/MD	Confirms
10	Q1401-07	VY021328.D	26 Feb 2025 13:54	SY/MD	Ok
11	Q1401-08	VY021329.D	26 Feb 2025 14:17	SY/MD	Ok
12	Q1401-09	VY021330.D	26 Feb 2025 14:40	SY/MD	Ok
13	Q1382-19	VY021331.D	26 Feb 2025 15:04	SY/MD	Ok
14	Q1383-09	VY021332.D	26 Feb 2025 15:27	SY/MD	Ok
15	Q1411-03	VY021333.D	26 Feb 2025 15:51	SY/MD	Ok
16	Q1411-01	VY021334.D	26 Feb 2025 16:14	SY/MD	Not Ok
17	Q1415-02	VY021335.D	26 Feb 2025 16:37	SY/MD	Ok
18	Q1415-01	VY021336.D	26 Feb 2025 17:01	SY/MD	Ok
19	Q1415-04	VY021337.D	26 Feb 2025 17:24	SY/MD	Ok,M
20	Q1415-03	VY021338.D	26 Feb 2025 17:48	SY/MD	Ok
21	Q1420-07	VY021339.D	26 Feb 2025 18:11	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM				
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1420-03	VY021340.D	26 Feb 2025 18:34	SY/MD	Ok
23	Q1427-01	VY021341.D	26 Feb 2025 18:58	SY/MD	ReRun
24	Q1380-07MS	VY021342.D	26 Feb 2025 19:21	SY/MD	Ok,M
25	Q1380-08MSD	VY021343.D	26 Feb 2025 19:43	SY/MD	Ok,M
26	VSTDCCC050	VY021344.D	26 Feb 2025 20:06	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021345.D	27 Feb 2025 09:41	SY/MD	Ok
2	VSTDCCC050	VY021346.D	27 Feb 2025 10:13	SY/MD	Ok,M
3	VY0227SBL01	VY021347.D	27 Feb 2025 10:42	SY/MD	Ok
4	VY0227SBS01	VY021348.D	27 Feb 2025 11:18	SY/MD	Ok,M
5	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40	SY/MD	Ok,M
6	Q1428-01	VY021350.D	27 Feb 2025 12:04	SY/MD	ReRun
7	Q1442-03	VY021351.D	27 Feb 2025 12:28	SY/MD	Ok
8	Q1416-01RE	VY021352.D	27 Feb 2025 12:51	SY/MD	Confirms
9	Q1428-01RE	VY021353.D	27 Feb 2025 13:14	SY/MD	Confirms
10	Q1418-01	VY021354.D	27 Feb 2025 13:38	SY/MD	Not Ok
11	Q1415-03RE	VY021355.D	27 Feb 2025 14:01	SY/MD	Confirms
12	Q1422-02	VY021356.D	27 Feb 2025 14:25	SY/MD	ReRun
13	Q1422-01	VY021357.D	27 Feb 2025 14:48	SY/MD	ReRun
14	Q1421-08	VY021358.D	27 Feb 2025 15:12	SY/MD	Not Ok
15	Q1421-07	VY021359.D	27 Feb 2025 15:35	SY/MD	ReRun
16	Q1421-01	VY021360.D	27 Feb 2025 15:58	SY/MD	Ok
17	Q1427-01RE	VY021361.D	27 Feb 2025 16:22	SY/MD	Confirms
18	Q1420-07	VY021362.D	27 Feb 2025 16:45	SY/MD	Ok
19	Q1411-03	VY021363.D	27 Feb 2025 17:09	SY/MD	Not Ok
20	Q1411-01	VY021364.D	27 Feb 2025 17:32	SY/MD	Ok
21	Q1440-01	VY021365.D	27 Feb 2025 17:55	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1448-01	VY021366.D	27 Feb 2025 18:19	SY/MD	ReRun
23	Q1448-02	VY021367.D	27 Feb 2025 18:42	SY/MD	ReRun
24	Q1448-03	VY021368.D	27 Feb 2025 19:06	SY/MD	ReRun
25	Q1448-04	VY021369.D	27 Feb 2025 19:29	SY/MD	Dilution
26	Q1448-05	VY021370.D	27 Feb 2025 19:52	SY/MD	ReRun
27	Q1421-02MS	VY021371.D	27 Feb 2025 20:15	SY/MD	Ok,M
28	Q1421-03MSD	VY021372.D	27 Feb 2025 20:38	SY/MD	Ok,M
29	VSTDCCC050	VY021373.D	27 Feb 2025 21:01	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN021825

Review By	John Carlone	Review On	2/19/2025 9:44:55 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/19/2025 1:34:51 PM		
SubDirectory	VN021825	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133068
Initial Calibration Stds	VP133070,VP133071,VP133072,VP133073,VP133074,VP133075
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133076
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085771.D	18 Feb 2025 10:35		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085772.D	18 Feb 2025 11:09	Comp.#43 is on Linear Regression	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085773.D	18 Feb 2025 11:32	Comp.#56,58,70,86 is on Quadratic Regression	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085774.D	18 Feb 2025 11:56	Not used	JC\MD	Not Ok
5	VSTDICC010	VSTDICC010	VN085775.D	18 Feb 2025 12:20		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085776.D	18 Feb 2025 12:43	%D failed for Comp. #58 in 01PPB, 05PPB and 20PPB	JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085777.D	18 Feb 2025 13:07		JC\MD	Ok,M
8	IBLK	IBLK	VN085778.D	18 Feb 2025 13:54		JC\MD	Ok
9	VSTDICC020	VSTDICC020	VN085779.D	18 Feb 2025 14:18		JC\MD	Ok,M
10	VSTDICV050	ICVVN021825	VN085780.D	18 Feb 2025 16:28	ICV Failed for comp. #95	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM		
SubDirectory	VN022425	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133126
Initial Calibration Stds	
CCC	VP133127,VP133128
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085828.D	24 Feb 2025 10:50		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085829.D	24 Feb 2025 11:37	V13516	JC\MD	Ok,M
3	VN0224MBL01	VN0224MBL01	VN085830.D	24 Feb 2025 12:15		JC\MD	Ok
4	VN0224WBL01	VN0224WBL01	VN085831.D	24 Feb 2025 12:39		JC\MD	Ok
5	VN0224WBS01	VN0224WBS01	VN085832.D	24 Feb 2025 13:03		JC\MD	Ok,M
6	VN0224WBSD01	VN0224WBSD01	VN085833.D	24 Feb 2025 13:36		JC\MD	Ok,M
7	Q1405-02DL	MW-04-021325DL	VN085834.D	24 Feb 2025 14:00	vial B pH<2	JC\MD	Ok
8	Q1405-03	MW-20D-021325	VN085835.D	24 Feb 2025 14:24	vial B pH<2	JC\MD	Ok
9	Q1405-04	MW-20D-FD-021325	VN085836.D	24 Feb 2025 14:49	vial B pH<2	JC\MD	Ok,M
10	Q1405-05	MW-22-021925	VN085837.D	24 Feb 2025 15:13	vial B pH<2	JC\MD	Ok
11	Q1405-11	TB-02-021325	VN085838.D	24 Feb 2025 15:37	vial A pH<2 TB	JC\MD	Ok
12	Q1415-05	FB02222025	VN085839.D	24 Feb 2025 16:01	vial A pH<2 FB;hit of com.#16	JC\MD	ReRun
13	Q1405-07	MW-26-021825	VN085840.D	24 Feb 2025 16:26	vial A pH<2	JC\MD	Ok
14	Q1405-08	MOS-11R-021325	VN085841.D	24 Feb 2025 16:50	vial A pH<2	JC\MD	Ok
15	Q1405-09	MOS-13-021925	VN085842.D	24 Feb 2025 17:14	vial A pH<2	JC\MD	Ok
16	Q1405-10	MW-30S-021825	VN085843.D	24 Feb 2025 17:38	vial A pH<2	JC\MD	Ok
17	Q1415-06	B-173-GW01	VN085844.D	24 Feb 2025 18:02	vial A pH<2	JC\MD	Ok
18	VSTDCCC050	VSTDCCC050EC	VN085845.D	24 Feb 2025 18:26		JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022425

Review By	John Carlone	Review On	2/25/2025 9:55:02 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/25/2025 2:29:22 PM		
SubDirectory	VN022425	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133126
Initial Calibration Stds	
CCC	VP133127,VP133128
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN022525

Review By	John Carlone	Review On	2/26/2025 9:38:40 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:46:27 PM		
SubDirectory	VN022525	HP Acquire Method		HP Processing Method	82N021825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133142
Initial Calibration Stds	
CCC	VP133144,VP133145
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085846.D	25 Feb 2025 10:11		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085847.D	25 Feb 2025 10:45	V13516	JC\MD	Ok,M
3	VN0225MBL01	VN0225MBL01	VN085848.D	25 Feb 2025 11:19		JC\MD	Ok
4	VN0225WBL01	VN0225WBL01	VN085849.D	25 Feb 2025 11:43		JC\MD	Ok
5	VN0225WBS01	VN0225WBS01	VN085850.D	25 Feb 2025 12:14		JC\MD	Ok,M
6	VN0225WBSD01	VN0225WBSD01	VN085851.D	25 Feb 2025 12:48		JC\MD	Ok,M
7	IBLK	IBLK	VN085852.D	25 Feb 2025 13:12		JC\MD	Ok
8	Q1415-05	FB02222025	VN085853.D	25 Feb 2025 13:36	vial B pH<2 FB	JC\MD	Ok
9	VN0225MBS01	VN0225MBS01	VN085854.D	25 Feb 2025 14:00		JC\MD	Ok,M
10	Q1395-01	BEL-25-0005	VN085855.D	25 Feb 2025 14:24	Need 10X	JC\MD	Dilution
11	IBLK	IBLK	VN085856.D	25 Feb 2025 14:49		JC\MD	Ok
12	IBLK	IBLK	VN085857.D	25 Feb 2025 15:13		JC\MD	Ok
13	Q1395-01DL	BEL-25-0005DL	VN085858.D	25 Feb 2025 15:37		JC\MD	Ok
14	IBLK	IBLK	VN085859.D	25 Feb 2025 16:15		JC\MD	Ok
15	VSTDCCC050	VSTDCCC050EC	VN085860.D	25 Feb 2025 16:42		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022525

Review By	Mahesh Dadoda	Review On	2/26/2025 1:45:35 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/26/2025 1:46:55 PM		
SubDirectory	VY022525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y022525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133154
Initial Calibration Stds	VP133137,VP133140,VP133143,VP133146,VP133147,VP133149
CCC	
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021308.D	25 Feb 2025 12:10		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021309.D	25 Feb 2025 12:40		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021310.D	25 Feb 2025 13:03		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021311.D	25 Feb 2025 13:26	Acrolein fail for method	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021312.D	25 Feb 2025 14:48		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021313.D	25 Feb 2025 15:34	Not used	SY/MD	Not Ok
7	VSTDICC150	VSTDICC150	VY021314.D	25 Feb 2025 15:57		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021315.D	25 Feb 2025 16:24		SY/MD	Ok
9	VSTDICC100	VSTDICC100	VY021316.D	25 Feb 2025 16:49		SY/MD	Ok,M
10	VSTDICV050	ICVVY022525	VY021317.D	25 Feb 2025 17:31	ICV Failed for comp. #10	SY/MD	Ok,M
11	VIBLK	VIBLK	VY021318.D	25 Feb 2025 17:54		SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM		
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021319.D	26 Feb 2025 09:12		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021320.D	26 Feb 2025 10:11		SY/MD	Ok,M
3	VY0226SBL01	VY0226SBL01	VY021321.D	26 Feb 2025 10:50		SY/MD	Ok
4	VY0226SBS01	VY0226SBS01	VY021322.D	26 Feb 2025 11:22		SY/MD	Ok,M
5	VY0226SBSD01	VY0226SBSD01	VY021323.D	26 Feb 2025 11:44		SY/MD	Ok,M
6	Q1416-01	OK-01-022425	VY021324.D	26 Feb 2025 12:20	vial-A ISTD Fail	SY/MD	ReRun
7	Q1413-02	BU-2-022125	VY021325.D	26 Feb 2025 12:43	vial-A ISTD Fail	SY/MD	ReRun
8	Q1418-01	TR-06-02242025	VY021326.D	26 Feb 2025 13:07	vial-A ISTD Fail	SY/MD	Ok
9	Q1413-02RE	BU-2-022125RE	VY021327.D	26 Feb 2025 13:30	vial-B ISTD Fail	SY/MD	Confirms
10	Q1401-07	BP-VPB-192-GW-825-8	VY021328.D	26 Feb 2025 13:54	vial-A	SY/MD	Ok
11	Q1401-08	BP-VPB-192-GW-860-8	VY021329.D	26 Feb 2025 14:17	vial-A	SY/MD	Ok
12	Q1401-09	BP-VPB-192-GW-880-8	VY021330.D	26 Feb 2025 14:40	vial-A	SY/MD	Ok
13	Q1382-19	OU4-PCS-TC-10-02172	VY021331.D	26 Feb 2025 15:04	vial-A	SY/MD	Ok
14	Q1383-09	OU4-PCS-TC-15-02172	VY021332.D	26 Feb 2025 15:27	vial-B	SY/MD	Ok
15	Q1411-03	HR-03-02212025	VY021333.D	26 Feb 2025 15:51	vial-A	SY/MD	Ok
16	Q1411-01	HR-02-02212025	VY021334.D	26 Feb 2025 16:14	vial-A NOT PURGE	SY/MD	Not Ok
17	Q1415-02	B-172-SB01	VY021335.D	26 Feb 2025 16:37	vial-A	SY/MD	Ok
18	Q1415-01	B-163-SB01	VY021336.D	26 Feb 2025 17:01	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022625

Review By	Mahesh Dadoda	Review On	2/27/2025 12:12:40 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/27/2025 12:13:53 PM		
SubDirectory	VY022625	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y022525S.m

STD. NAME	STD REF.#
Tune/Reschk	VP133161
Initial Calibration Stds	
CCC	VP133162,VP133163
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1415-04	B-172-SB02	VY021337.D	26 Feb 2025 17:24	vial-A	SY/MD	Ok,M
20	Q1415-03	B-163-SB02	VY021338.D	26 Feb 2025 17:48	vial-A Internal Standard Fail	SY/MD	Ok
21	Q1420-07	TP-2-WC-VOC	VY021339.D	26 Feb 2025 18:11	vial-A Internal Standard Fail	SY/MD	ReRun
22	Q1420-03	TP-1-WC-VOC	VY021340.D	26 Feb 2025 18:34	vial-A	SY/MD	Ok
23	Q1427-01	VNJ-227	VY021341.D	26 Feb 2025 18:58	vial-A Surrogate Fail	SY/MD	ReRun
24	Q1380-07MS	BP-VPB-192-GW-725-7	VY021342.D	26 Feb 2025 19:21	vial-B	SY/MD	Ok,M
25	Q1380-08MSD	BP-VPB-192-GW-725-7	VY021343.D	26 Feb 2025 19:43	vial-B Internal Standard Fail	SY/MD	Ok,M
26	VSTDCCC050	VSTDCCC050EC	VY021344.D	26 Feb 2025 20:06		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021345.D	27 Feb 2025 09:41		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021346.D	27 Feb 2025 10:13		SY/MD	Ok,M
3	VY0227SBL01	VY0227SBL01	VY021347.D	27 Feb 2025 10:42		SY/MD	Ok
4	VY0227SBS01	VY0227SBS01	VY021348.D	27 Feb 2025 11:18		SY/MD	Ok,M
5	VY0227SBSD01	VY0227SBSD01	VY021349.D	27 Feb 2025 11:40		SY/MD	Ok,M
6	Q1428-01	NB-07-022525	VY021350.D	27 Feb 2025 12:04	Vial-A ISTD Fail	SY/MD	ReRun
7	Q1442-03	351	VY021351.D	27 Feb 2025 12:28	Vial-A	SY/MD	Ok
8	Q1416-01RE	OK-01-022425RE	VY021352.D	27 Feb 2025 12:51	Vial-B ISTD Fail	SY/MD	Confirms
9	Q1428-01RE	NB-07-022525RE	VY021353.D	27 Feb 2025 13:14	Vial-B Internal Standard Fail	SY/MD	Confirms
10	Q1418-01	TR-06-02242025	VY021354.D	27 Feb 2025 13:38	Vial-B Not purge	SY/MD	Not Ok
11	Q1415-03RE	B-163-SB02RE	VY021355.D	27 Feb 2025 14:01	Vial-B Internal standard fail;Not match for com.#20	SY/MD	Confirms
12	Q1422-02	B-154-SB02	VY021356.D	27 Feb 2025 14:25	Vial-A Internal standard fail	SY/MD	ReRun
13	Q1422-01	B-154-SB01	VY021357.D	27 Feb 2025 14:48	Vial-A Internal standard fail	SY/MD	ReRun
14	Q1421-08	P001-CLAY-CF01-02	VY021358.D	27 Feb 2025 15:12	Vial-B Typo	SY/MD	Not Ok
15	Q1421-07	P001-CLAY-CF01-02	VY021359.D	27 Feb 2025 15:35	Vial-A Internal standard fail	SY/MD	ReRun
16	Q1421-01	P001-CLAY-CF01-01	VY021360.D	27 Feb 2025 15:58	Vial-A Internal standard fail	SY/MD	Ok
17	Q1427-01RE	VNJ-227RE	VY021361.D	27 Feb 2025 16:22	Vial-B Internal standard fail;Surrogate fail	SY/MD	Confirms

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY022725

Review By	Mahesh Dadoda	Review On	2/28/2025 11:07:46 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:02 AM		
SubDirectory	VY022725	HP Acquire Method		HP Processing Method	82y022225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133167
Initial Calibration Stds	VP133165,VP133166
CCC	
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1420-07	TP-2-WC-VOC	VY021362.D	27 Feb 2025 16:45	Vial-B	SY/MD	Ok
19	Q1411-03	HR-03-02212025	VY021363.D	27 Feb 2025 17:09	Vial-B Not purge	SY/MD	Not Ok
20	Q1411-01	HR-02-02212025	VY021364.D	27 Feb 2025 17:32	Vial-B Internal standard fail	SY/MD	Ok
21	Q1440-01	OR-02-022625	VY021365.D	27 Feb 2025 17:55	Vial-A Internal standard fail	SY/MD	ReRun
22	Q1448-01	PSP1	VY021366.D	27 Feb 2025 18:19	Vial-A Internal standard fail	SY/MD	ReRun
23	Q1448-02	P1	VY021367.D	27 Feb 2025 18:42	Vial-A Internal standard fail	SY/MD	ReRun
24	Q1448-03	P2	VY021368.D	27 Feb 2025 19:06	Vial-A Internal standard fail	SY/MD	ReRun
25	Q1448-04	P3	VY021369.D	27 Feb 2025 19:29	Vial-A Internal standard fail;Need MeOH	SY/MD	Dilution
26	Q1448-05	P4	VY021370.D	27 Feb 2025 19:52	Vial-A Internal standard fail	SY/MD	ReRun
27	Q1421-02MS	P001-CLAY-CF01-01M	VY021371.D	27 Feb 2025 20:15	Vial-A Internal standard fail	SY/MD	Ok,M
28	Q1421-03MSD	P001-CLAY-CF01-01M	VY021372.D	27 Feb 2025 20:38	Vial-A Internal standard fail	SY/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VY021373.D	27 Feb 2025 21:01		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-02	**B-172-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-03	**B-163-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-03RE	**B-163-SB02RE**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/27/25	
Q1415-04	**B-172-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260D			02/26/25	
Q1415-05	**FB02222025**	**Water**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260-Low			02/25/25	
Q1415-06	**B-173-GW01**	**Water**			**02/22/25**			**02/24/25**
			VOC-TCLVOA-10	8260-Low			02/24/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-163-SB01**								
Q1415-01	B-163-SB01	SOIL	13-Docosenamide, (Z)-	*	240.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	2-Butenoic acid, methyl ester, (Z)	*	1,400.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Diethyl carbonate	*	1,000.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Heptadecyl heptafluorobutyrate	*	250.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Hexanedioic acid, 2-methyl-5-met	*	280.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	n-Hexadecanoic acid	*	220.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown10.851	*	96.200	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.004	*	80.100	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.392	*	98.100	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.769	*	120.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown2.293	*	100.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown3.216	*	230.000	J	0	0	ug/Kg
			Total Tics :		**4,284.40**				
			Total Concentration:		**4,284.40**				
Client ID :	**B-172-SB01**								
Q1415-02	B-172-SB01	SOIL	9-Octadecenamide, (Z)-	*	91.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	n-Hexadecanoic acid	*	100.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Supraene	*	110.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Trifluoroacetoxy hexadecane	*	220.000	J	0	0	ug/Kg
			Total Tics :		**691.00**				
			Total Concentration:		**691.00**				
Client ID :	**B-163-SB02**								
Q1415-03	B-163-SB02	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Diethyl carbonate	*	260.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	n-Hexadecanoic acid	*	120.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Supraene	*	100.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	2- Chloropropionic acid, octadecy	*	160.000	J	0	0	ug/Kg
			Total Tics :		**820.00**				
			Total Concentration:		**820.00**				
Client ID :	**B-172-SB02**								
Q1415-04	B-172-SB02	SOIL	Benzophenone	*	190.000	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	n-Hexadecanoic acid	*	140.000	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Supraene	*	95.300	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Trifluoroacetoxy hexadecane	*	270.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1415-04	B-172-SB02	SOIL	unknown2.340	*	230.000	J	0	0	ug/Kg
			Total Tics :		**925.30**				
			Total Concentration:		**925.30**				
Client ID :	**FB02222025**								
Q1415-05	FB02222025	WATER	n-Hexadecanoic acid	*	3.400	J	0	0	ug/L
Q1415-05	FB02222025	WATER	Oleic Acid	*	5.100	J	0	0	ug/L
Q1415-05	FB02222025	WATER	1-(1-tert-Butoxypropan-2-yloxy)p	*	2.300	J	0	0	ug/L
			Total Tics :		**10.80**				
			Total Concentration:		**10.80**				
Client ID :	**B-173-GW01**								
Q1415-06	B-173-GW01	WATER	Diethylphthalate		5.400	J	1.2	5.6	ug/L
Q1415-06	B-173-GW01	WATER	Di-n-butylphthalate		3.100	J	1.6	5.6	ug/L
Q1415-06	B-173-GW01	WATER	1,4-Dioxane		3.900	J	1.4	5.6	ug/L
			Total Svoc :		**12.40**				
Q1415-06	B-173-GW01	WATER	1,2-Benzenedicarboxylic acid, but	*	5.300	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	1H-Benzotriazole, 4-methyl-	*	10.100	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	1-Isobutoxy-2-ethylhexane	*	8.800	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	2.500	A	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Adipic acid, butyl 2-methylpent-3	*	49.700	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Benzophenone	*	21.000	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Butyl citrate	*	3.600	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Decane	*	4.900	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Ethanol, 2-butoxy-	*	3.300	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Heptadecyl heptafluorobutyrate	*	5.400	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	4.700	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Naphthalene, decahydro-, trans-	*	3.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Octadecanoic acid	*	8.700	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Squalene	*	3.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Sulfurous acid, decyl 2-ethylhexyl	*	4.500	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Tetradecane	*	8.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Tridecane	*	10.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown2.263	*	2.300	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown8.357	*	3.600	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown9.739	*	2.500	J	0	0	ug/L
			Total Tics :		**165.70**				
			Total Concentration:		**178.10**				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	370	ug/Kg
108-95-2	Phenol	93.5	U	93.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.4	U	94.4	190	ug/Kg
95-57-8	2-Chlorophenol	94.2	U	94.2	190	ug/Kg
95-48-7	2-Methylphenol	90.9	U	90.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	98.0	U	98.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	90.0	U	90.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.4	U	45.4	90.2	ug/Kg
67-72-1	Hexachloroethane	93.6	U	93.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	95.4	U	95.4	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.8	U	96.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.1	U	85.1	190	ug/Kg
91-20-3	Naphthalene	93.1	U	93.1	190	ug/Kg
106-47-8	4-Chloroaniline	93.1	UQ	93.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	93.9	U	93.9	190	ug/Kg
105-60-2	Caprolactam	97.9	U	97.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.4	U	87.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.0	U	93.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.5	U	80.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.4	U	83.4	190	ug/Kg
92-52-4	1,1-Biphenyl	98.6	U	98.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.9	U	93.9	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	92.1	U	92.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.5	U	97.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	91.5	U	91.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	95.2	U	95.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.2	U	97.2	190	ug/Kg
84-66-2	Diethylphthalate	90.3	U	90.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.5	U	96.5	190	ug/Kg
86-73-7	Fluorene	96.4	U	96.4	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.0	U	92.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	89.0	U	89.0	190	ug/Kg
118-74-1	Hexachlorobenzene	95.9	U	95.9	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	87.2	U	87.2	370	ug/Kg
85-01-8	Phenanthrene	94.7	U	94.7	190	ug/Kg
120-12-7	Anthracene	95.2	U	95.2	190	ug/Kg
86-74-8	Carbazole	90.6	U	90.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.1	U	95.1	190	ug/Kg
206-44-0	Fluoranthene	92.1	U	92.1	190	ug/Kg
129-00-0	Pyrene	93.6	U	93.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.0	U	91.0	190	ug/Kg
218-01-9	Chrysene	89.7	U	89.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.5	U	91.5	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.1	U	93.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.1	U	88.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.6	U	91.6	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.3	U	90.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.9	U	97.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.2	U	84.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	99.4		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	93.1		30 (15) - 130 (107)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.9		30 (18) - 130 (107)	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.3		30 (20) - 130 (109)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.2		30 (10) - 130 (116)	56%	SPK: 150
1718-51-0	Terphenyl-d14	58.5		30 (10) - 130 (105)	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	65700	6.781			
1146-65-2	Naphthalene-d8	241000	8.063			
15067-26-2	Acenaphthene-d10	115000	9.816			
1517-22-2	Phenanthrene-d10	182000	11.298			
1719-03-5	Chrysene-d12	153000	13.939			
1520-96-3	Perylene-d12	176000	15.38			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown2.293	100	J		2.29	ug/Kg
004358-59-2	2-Butenoic acid, methyl ester, (Z)	1400	J		2.54	ug/Kg
	unknown3.216	230	J		3.22	ug/Kg
000105-58-8	Diethyl carbonate	1000	J		4.17	ug/Kg
004513-62-6	Hexanedioic acid, 2-methyl-5-methy	280	J		8.79	ug/Kg
000119-61-9	Benzophenone	170	J		10.5	ug/Kg
	unknown10.851	96.2	J		10.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000057-10-3	n-Hexadecanoic acid	220	J		11.8	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	250	J		13.8	ug/Kg
	unknown14.004	80.1	J		14.0	ug/Kg
	unknown14.392	98.1	J		14.4	ug/Kg
000112-84-5	13-Docosenamide, (Z)-	240	J		14.7	ug/Kg
	unknown14.769	120	J		14.8	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	95.4	U	95.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	96.4	U	96.4	200	ug/Kg
95-57-8	2-Chlorophenol	96.1	U	96.1	200	ug/Kg
95-48-7	2-Methylphenol	92.8	U	92.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	91.9	U	91.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.4	U	46.4	92.1	ug/Kg
67-72-1	Hexachloroethane	95.6	U	95.6	200	ug/Kg
98-95-3	Nitrobenzene	100	U	100	200	ug/Kg
78-59-1	Isophorone	97.4	U	97.4	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	98.8	U	98.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	86.9	U	86.9	200	ug/Kg
91-20-3	Naphthalene	95.1	U	95.1	200	ug/Kg
106-47-8	4-Chloroaniline	95.1	UQ	95.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	95.9	U	95.9	200	ug/Kg
105-60-2	Caprolactam	99.9	U	99.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.2	U	89.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	95.0	U	95.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	82.2	U	82.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	85.2	U	85.2	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	95.9	U	95.9	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	94.1	U	94.1	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	99.6	U	99.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	95.8	U	95.8	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	93.4	U	93.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	97.2	U	97.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.2	U	99.2	200	ug/Kg
84-66-2	Diethylphthalate	92.2	U	92.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	98.5	U	98.5	200	ug/Kg
86-73-7	Fluorene	98.4	U	98.4	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.9	U	93.9	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	90.8	U	90.8	200	ug/Kg
118-74-1	Hexachlorobenzene	97.9	U	97.9	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	89.0	U	89.0	380	ug/Kg
85-01-8	Phenanthrene	96.7	U	96.7	200	ug/Kg
120-12-7	Anthracene	97.2	U	97.2	200	ug/Kg
86-74-8	Carbazole	92.4	U	92.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	97.1	U	97.1	200	ug/Kg
206-44-0	Fluoranthene	94.1	U	94.1	200	ug/Kg
129-00-0	Pyrene	95.6	U	95.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	92.9	U	92.9	200	ug/Kg
218-01-9	Chrysene	91.5	U	91.5	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	93.4	U	93.4	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	95.1	U	95.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	89.9	U	89.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	93.5	U	93.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	92.2	U	92.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	99.9	U	99.9	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	86.0	U	86.0	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	91.6		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.9		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.5		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.7		30 (10) - 130 (116)	53%	SPK: 150
1718-51-0	Terphenyl-d14	60.8		30 (10) - 130 (105)	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68700	6.781			
1146-65-2	Naphthalene-d8	275000	8.063			
15067-26-2	Acenaphthene-d10	147000	9.81			
1517-22-2	Phenanthrene-d10	243000	11.298			
1719-03-5	Chrysene-d12	170000	13.939			
1520-96-3	Perylene-d12	177000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	170	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	100	J		11.8	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	220	J		13.8	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	91.0	J		14.7	ug/Kg
007683-64-9	Supraene	110	J		14.8	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	250	U	250	460	ug/Kg
108-95-2	Phenol	110	U	110	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	120	U	120	230	ug/Kg
95-57-8	2-Chlorophenol	120	U	120	230	ug/Kg
95-48-7	2-Methylphenol	110	U	110	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	130	230	ug/Kg
98-86-2	Acetophenone	120	U	120	230	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.6	U	55.6	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	230	ug/Kg
98-95-3	Nitrobenzene	130	U	130	230	ug/Kg
78-59-1	Isophorone	120	U	120	230	ug/Kg
88-75-5	2-Nitrophenol	130	U	130	230	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	130	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	230	ug/Kg
120-83-2	2,4-Dichlorophenol	100	U	100	230	ug/Kg
91-20-3	Naphthalene	110	U	110	230	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	230	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	230	ug/Kg
105-60-2	Caprolactam	120	U	120	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	110	U	110	230	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	98.6	U	98.6	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	100	U	100	230	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	230	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	230	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	230	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	230	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	120	U	120	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	230	ug/Kg
99-09-2	3-Nitroaniline	120	UQ	120	230	ug/Kg
83-32-9	Acenaphthene	110	U	110	230	ug/Kg
51-28-5	2,4-Dinitrophenol	340	U	340	460	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	460	ug/Kg
132-64-9	Dibenzofuran	120	U	120	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	120	U	120	230	ug/Kg
84-66-2	Diethylphthalate	110	U	110	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	230	ug/Kg
86-73-7	Fluorene	120	U	120	230	ug/Kg
100-01-6	4-Nitroaniline	150	U	150	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	160	U	160	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	230	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	230	ug/Kg
1912-24-9	Atrazine	130	U	130	230	ug/Kg
87-86-5	Pentachlorophenol	110	U	110	460	ug/Kg
85-01-8	Phenanthrene	120	U	120	230	ug/Kg
120-12-7	Anthracene	120	U	120	230	ug/Kg
86-74-8	Carbazole	110	U	110	230	ug/Kg
84-74-2	Di-n-butylphthalate	120	U	120	230	ug/Kg
206-44-0	Fluoranthene	110	U	110	230	ug/Kg
129-00-0	Pyrene	110	U	110	230	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	140	UQ	140	460	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	230	ug/Kg
218-01-9	Chrysene	110	U	110	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	130	230	ug/Kg
117-84-0	Di-n-octyl phthalate	150	U	150	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	U	110	230	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	230	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	130	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U	120	230	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	100	U	100	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	83.6		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	81.5		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.3		30 (18) - 130 (107)	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.3		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	72.1		30 (10) - 130 (116)	48%	SPK: 150
1718-51-0	Terphenyl-d14	54.8		30 (10) - 130 (105)	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74400	6.781			
1146-65-2	Naphthalene-d8	293000	8.063			
15067-26-2	Acenaphthene-d10	154000	9.81			
1517-22-2	Phenanthrene-d10	249000	11.298			
1719-03-5	Chrysene-d12	169000	13.939			
1520-96-3	Perylene-d12	185000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000105-58-8	Diethyl carbonate	260	J		4.17	ug/Kg
000119-61-9	Benzophenone	180	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J		11.8	ug/Kg
088104-31-8	2- Chloropropionic acid, octadecyl	160	J		13.8	ug/Kg
007683-64-9	Supraene	100	J		14.8	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	370	ug/Kg
108-95-2	Phenol	92.2	U	92.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	93.1	U	93.1	190	ug/Kg
95-57-8	2-Chlorophenol	92.9	U	92.9	190	ug/Kg
95-48-7	2-Methylphenol	89.6	U	89.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	96.7	U	96.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	88.8	U	88.8	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.8	U	44.8	89.0	ug/Kg
67-72-1	Hexachloroethane	92.3	U	92.3	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	94.1	U	94.1	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	95.4	U	95.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	84.0	U	84.0	190	ug/Kg
91-20-3	Naphthalene	91.9	U	91.9	190	ug/Kg
106-47-8	4-Chloroaniline	91.9	UQ	91.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	92.6	U	92.6	190	ug/Kg
105-60-2	Caprolactam	96.5	U	96.5	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	86.2	U	86.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	91.8	U	91.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	79.4	U	79.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	82.3	U	82.3	190	ug/Kg
92-52-4	1,1-Biphenyl	97.2	U	97.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	92.6	U	92.6	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	90.9	U	90.9	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	96.2	U	96.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	92.5	U	92.5	190	ug/Kg
99-09-2	3-Nitroaniline	99.2	UQ	99.2	190	ug/Kg
83-32-9	Acenaphthene	90.2	U	90.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	93.9	U	93.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.9	U	95.9	190	ug/Kg
84-66-2	Diethylphthalate	89.1	U	89.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	95.2	U	95.2	190	ug/Kg
86-73-7	Fluorene	95.1	U	95.1	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.8	U	90.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	87.8	U	87.8	190	ug/Kg
118-74-1	Hexachlorobenzene	94.5	U	94.5	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	86.0	U	86.0	370	ug/Kg
85-01-8	Phenanthrene	93.4	U	93.4	190	ug/Kg
120-12-7	Anthracene	93.9	U	93.9	190	ug/Kg
86-74-8	Carbazole	89.3	U	89.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	93.8	U	93.8	190	ug/Kg
206-44-0	Fluoranthene	90.9	U	90.9	190	ug/Kg
129-00-0	Pyrene	92.3	U	92.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	89.8	U	89.8	190	ug/Kg
218-01-9	Chrysene	88.4	U	88.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	90.2	U	90.2	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.9	U	91.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.9	U	86.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	90.3	U	90.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	89.1	U	89.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	96.5	U	96.5	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	83.1	U	83.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	98.7		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.6		30 (18) - 130 (107)	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.9		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	69.8		30 (10) - 130 (105)	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71100	6.781			
1146-65-2	Naphthalene-d8	280000	8.063			
15067-26-2	Acenaphthene-d10	151000	9.81			
1517-22-2	Phenanthrene-d10	244000	11.298			
1719-03-5	Chrysene-d12	166000	13.939			
1520-96-3	Perylene-d12	176000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown2.340	230	J		2.34	ug/Kg
000119-61-9	Benzophenone	190	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	140	J		11.8	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	270	J		13.8	ug/Kg
007683-64-9	Supraene	95.3	J		14.8	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.20	U	4.20	10.4	ug/L
108-95-2	Phenol	0.97	U	0.97	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.20	ug/L
95-57-8	2-Chlorophenol	0.74	U	0.74	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.20	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.60	U	1.60	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.92	U	0.92	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	0.88	U	0.88	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	5.20	U	5.20	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	0.93	U	0.93	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.20	ug/L
92-52-4	1,1-Biphenyl	0.95	U	0.95	5.20	ug/L
91-58-7	2-Chloronaphthalene	1.00	U	1.00	5.20	ug/L
88-74-4	2-Nitroaniline	1.50	U	1.50	5.20	ug/L
131-11-3	Dimethylphthalate	0.97	U	0.97	5.20	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
99-09-2	3-Nitroaniline	1.40	UQ	1.40	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.70	U	6.70	10.4	ug/L
100-02-7	4-Nitrophenol	2.10	U	2.10	10.4	ug/L
132-64-9	Dibenzofuran	0.97	U	0.97	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.20	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.20	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.20	U	3.20	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	0.93	U	0.93	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.99	U	0.99	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.4	ug/L
85-01-8	Phenanthrene	0.93	U	0.93	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.20	U	2.20	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	UQ	1.30	10.4	ug/L
56-55-3	Benzo(a)anthracene	0.98	U	0.98	5.20	ug/L
218-01-9	Chrysene	0.90	U	0.90	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.82	U	0.82	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	23.3		15 (10) - 110 (139)	31%	SPK: 75
13127-88-3	Phenol-d6	13.1		15 (10) - 110 (134)	18%	SPK: 75
4165-60-0	Nitrobenzene-d5	38.6		30 (49) - 130 (133)	77%	SPK: 50
321-60-8	2-Fluorobiphenyl	39.7		30 (52) - 130 (132)	79%	SPK: 50
118-79-6	2,4,6-Tribromophenol	57.7		15 (44) - 110 (137)	77%	SPK: 75
1718-51-0	Terphenyl-d14	39.6		30 (48) - 130 (125)	79%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	78200	6.781			
1146-65-2	Naphthalene-d8	312000	8.063			
15067-26-2	Acenaphthene-d10	173000	9.816			
1517-22-2	Phenanthrene-d10	307000	11.298			
1719-03-5	Chrysene-d12	235000	13.939			
1520-96-3	Perylene-d12	196000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
132739-31-2	1-(1-tert-Butoxypropan-2-yloxy)pro	2.30	J		8.31	ug/L
000057-10-3	n-Hexadecanoic acid	3.40	J		11.8	ug/L
000112-80-1	Oleic Acid	5.10	J		12.5	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.40	U	4.40	11.1	ug/L
108-95-2	Phenol	1.00	U	1.00	5.60	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.30	U	1.30	5.60	ug/L
95-57-8	2-Chlorophenol	0.79	U	0.79	5.60	ug/L
95-48-7	2-Methylphenol	1.30	U	1.30	5.60	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.50	U	1.50	5.60	ug/L
98-86-2	Acetophenone	1.20	U	1.20	5.60	ug/L
65794-96-9	3+4-Methylphenols	1.30	U	1.30	11.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.60	U	1.60	2.80	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.60	ug/L
98-95-3	Nitrobenzene	1.40	U	1.40	5.60	ug/L
78-59-1	Isophorone	1.30	U	1.30	5.60	ug/L
88-75-5	2-Nitrophenol	2.20	U	2.20	5.60	ug/L
105-67-9	2,4-Dimethylphenol	1.70	U	1.70	5.60	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.60	ug/L
120-83-2	2,4-Dichlorophenol	0.98	U	0.98	5.60	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.60	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.60	ug/L
87-68-3	Hexachlorobutadiene	1.40	U	1.40	5.60	ug/L
105-60-2	Caprolactam	1.80	U	1.80	11.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.93	U	0.93	5.60	ug/L
91-57-6	2-Methylnaphthalene	1.30	U	1.30	5.60	ug/L
77-47-4	Hexachlorocyclopentadiene	5.60	U	5.60	11.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.99	U	0.99	5.60	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.60	ug/L
92-52-4	1,1-Biphenyl	1.00	U	1.00	5.60	ug/L
91-58-7	2-Chloronaphthalene	1.10	U	1.10	5.60	ug/L
88-74-4	2-Nitroaniline	1.60	U	1.60	5.60	ug/L
131-11-3	Dimethylphthalate	1.00	U	1.00	5.60	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.20	U	1.20	5.60	ug/L
606-20-2	2,6-Dinitrotoluene	1.40	U	1.40	5.60	ug/L
99-09-2	3-Nitroaniline	1.50	UQ	1.50	5.60	ug/L
83-32-9	Acenaphthene	0.90	U	0.90	5.60	ug/L
51-28-5	2,4-Dinitrophenol	7.10	U	7.10	11.1	ug/L
100-02-7	4-Nitrophenol	2.20	U	2.20	11.1	ug/L
132-64-9	Dibenzofuran	1.00	U	1.00	5.60	ug/L
121-14-2	2,4-Dinitrotoluene	1.70	U	1.70	5.60	ug/L
84-66-2	Diethylphthalate	5.40	J	1.20	5.60	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.10	U	1.10	5.60	ug/L
86-73-7	Fluorene	1.10	U	1.10	5.60	ug/L
100-01-6	4-Nitroaniline	2.30	U	2.30	5.60	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.40	U	3.40	11.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.99	U	0.99	5.60	ug/L
101-55-3	4-Bromophenyl-phenylether	1.10	U	1.10	5.60	ug/L
118-74-1	Hexachlorobenzene	1.30	U	1.30	5.60	ug/L
1912-24-9	Atrazine	1.40	U	1.40	5.60	ug/L
87-86-5	Pentachlorophenol	2.10	U	2.10	11.1	ug/L
85-01-8	Phenanthrene	0.99	U	0.99	5.60	ug/L
120-12-7	Anthracene	1.20	U	1.20	5.60	ug/L
86-74-8	Carbazole	1.30	U	1.30	5.60	ug/L
84-74-2	Di-n-butylphthalate	3.10	J	1.60	5.60	ug/L
206-44-0	Fluoranthene	1.40	U	1.40	5.60	ug/L
129-00-0	Pyrene	1.20	U	1.20	5.60	ug/L
85-68-7	Butylbenzylphthalate	2.30	U	2.30	5.60	ug/L
91-94-1	3,3-Dichlorobenzidine	1.40	UQ	1.40	11.1	ug/L
56-55-3	Benzo(a)anthracene	1.00	U	1.00	5.60	ug/L
218-01-9	Chrysene	0.96	U	0.96	5.60	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.10	U	2.10	5.60	ug/L
117-84-0	Di-n-octyl phthalate	2.80	U	2.80	11.1	ug/L
205-99-2	Benzo(b)fluoranthene	1.30	U	1.30	5.60	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.30	U	1.30	5.60	ug/L
50-32-8	Benzo(a)pyrene	1.90	U	1.90	5.60	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.60	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.30	U	1.30	5.60	ug/L
191-24-2	Benzo(g,h,i)perylene	1.30	U	1.30	5.60	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.20	U	1.20	5.60	ug/L
123-91-1	1,4-Dioxane	3.90	J	1.40	5.60	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.88	U	0.88	5.60	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	57.4		15 (10) - 110 (139)	38%	SPK: 150
13127-88-3	Phenol-d6	37.3		15 (10) - 110 (134)	25%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.2		30 (49) - 130 (133)	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.7		30 (52) - 130 (132)	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		15 (44) - 110 (137)	81%	SPK: 150
1718-51-0	Terphenyl-d14	88.2		30 (48) - 130 (125)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70100	6.781			
1146-65-2	Naphthalene-d8	282000	8.063			
15067-26-2	Acenaphthene-d10	154000	9.81			
1517-22-2	Phenanthrene-d10	263000	11.298			
1719-03-5	Chrysene-d12	181000	13.939			
1520-96-3	Perylene-d12	167000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown2.263	2.30	J		2.26	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.50	A		4.97	ug/L
000111-76-2	Ethanol, 2-butoxy-	3.30	J		5.73	ug/L
000124-18-5	Decane	4.90	J		6.61	ug/L
1000139-90-3	1-Isobutoxy-2-ethylhexane	8.80	J		6.84	ug/L
000493-02-7	Naphthalene, decahydro-, trans-	3.20	J		7.17	ug/L
	unknown8.357	3.60	J		8.36	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1000309-19-3	Sulfurous acid, decyl 2-ethylhexyl	4.50	J		8.48	ug/L
000629-50-5	Tridecane	10.2	J		8.65	ug/L
000629-59-4	Tetradecane	8.20	J		9.22	ug/L
	unknown9.739	2.50	J		9.74	ug/L
029878-31-7	1H-Benzotriazole, 4-methyl-	10.1	J		9.99	ug/L
000119-61-9	Benzophenone	21.0	J		10.5	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	4.70	J		10.8	ug/L
000084-78-6	1,2-Benzenedicarboxylic acid, buty	5.30	J		11.7	ug/L
000077-94-1	Butyl citrate	3.60	J		12.5	ug/L
000057-11-4	Octadecanoic acid	8.70	J		12.6	ug/L
1010353-55-8	Adipic acid, butyl 2-methylpent-3-	49.7	J		12.7	ug/L
959085-66-6	Heptadecyl heptafluorobutyrate	5.40	J		13.8	ug/L
000111-02-4	Squalene	3.20	J		14.8	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166853BL	PB166853BL	2-Fluorophenol	150	141	94		30 (18)	130 (112)
		Phenol-d6	150	133	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	90.7	91		30 (18)	130 (107)
		2-Fluorobiphenyl	100	97.0	97		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	104	104		30 (10)	130 (105)
PB166853BS	PB166853BS	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	131	88		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.9	88		30 (18)	130 (107)
		2-Fluorobiphenyl	100	95.9	96		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	145	96		30 (10)	130 (116)
		Terphenyl-d14	100	116	116		30 (10)	130 (105)
Q1415-01	B-163-SB01	2-Fluorophenol	150	99.4	66		30 (18)	130 (112)
		Phenol-d6	150	93.1	62		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.9	69		30 (18)	130 (107)
		2-Fluorobiphenyl	100	77.3	77		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	84.2	56		30 (10)	130 (116)
		Terphenyl-d14	100	58.5	59		30 (10)	130 (105)
Q1415-02	B-172-SB01	2-Fluorophenol	150	91.6	61		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.9	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.5	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	79.7	53		30 (10)	130 (116)
		Terphenyl-d14	100	60.8	61		30 (10)	130 (105)
Q1415-03	B-163-SB02	2-Fluorophenol	150	83.6	56		30 (18)	130 (112)
		Phenol-d6	150	81.5	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	54.3	54		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.3	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	72.1	48		30 (10)	130 (116)
		Terphenyl-d14	100	54.8	55		30 (10)	130 (105)
Q1415-04	B-172-SB02	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	98.7	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.6	69		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.0	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	85.9	57		30 (10)	130 (116)
		Terphenyl-d14	100	69.8	70		30 (10)	130 (105)
Q1421-02MS	P001-CLAY-CF01-01MS	2-Fluorophenol	150	100	67		30 (18)	130 (112)
		Phenol-d6	150	98.8	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	65.3	65		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.2	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	94.2	63		30 (10)	130 (116)
		Terphenyl-d14	100	74.9	75		30 (10)	130 (105)
Q1421-03MSD	P001-CLAY-CF01-01MSD	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	101	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	67.9	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	72.5	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	94.1	63		30 (10)	130 (116)
		Terphenyl-d14	100	71.3	71		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166875BL	PB166875BL	2-Fluorophenol	150	141	94		15 (10)	110 (139)
		Phenol-d6	150	136	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	91.5	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.6	97		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	106	106		30 (48)	130 (125)
PB166875BS	PB166875BS	2-Fluorophenol	150	127	85		15 (10)	110 (139)
		Phenol-d6	150	121	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	84.5	84		30 (49)	130 (133)
		2-Fluorobiphenyl	100	88.2	88		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB166875BSD	PB166875BSD	2-Fluorophenol	150	132	88		15 (10)	110 (139)
		Phenol-d6	150	127	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.4	87		30 (49)	130 (133)
		2-Fluorobiphenyl	100	91.7	92		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	138	92		15 (44)	110 (137)
		Terphenyl-d14	100	106	106		30 (48)	130 (125)
Q1415-05	FB02222025	2-Fluorophenol	75	23.3	31		15 (10)	110 (139)
		Phenol-d6	75	13.1	18		15 (10)	110 (134)
		Nitrobenzene-d5	50	38.6	77		30 (49)	130 (133)
		2-Fluorobiphenyl	50	39.7	79		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	57.7	77		15 (44)	110 (137)
		Terphenyl-d14	50	39.6	79		30 (48)	130 (125)
Q1415-06	B-173-GW01	2-Fluorophenol	150	57.4	38		15 (10)	110 (139)
		Phenol-d6	150	37.3	25		15 (10)	110 (134)
		Nitrobenzene-d5	100	74.2	74		30 (49)	130 (133)
		2-Fluorobiphenyl	100	80.7	81		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	122	81		15 (44)	110 (137)
		Terphenyl-d14	100	88.2	88		30 (48)	130 (125)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1421-02MS		**Client Sample ID: P001-CLAY-CF01-01MS**						**DataFile: BF141762.D**			
Benzaldehyde	2400	0	1300	ug/Kg	54				20 (10)	160 (86)	
Phenol	2400	0	2100	ug/Kg	88				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2400	0	2100	ug/Kg	88				70 (54)	130 (125)	
2-Chlorophenol	2400	0	2100	ug/Kg	88				70 (79)	130 (107)	
2-Methylphenol	2400	0	2100	ug/Kg	88				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2400	0	1900	ug/Kg	79				70 (65)	130 (110)	
Acetophenone	2400	0	2200	ug/Kg	92				70 (75)	130 (111)	
3+4-Methylphenols	2400	0	2200	ug/Kg	92				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2400	0	2000	ug/Kg	83				70 (59)	130 (119)	
Hexachloroethane	2400	0	2100	ug/Kg	88				20 (65)	160 (117)	
Nitrobenzene	2400	0	2000	ug/Kg	83				70 (70)	130 (119)	
Isophorone	2400	0	2200	ug/Kg	92				70 (76)	130 (122)	
2-Nitrophenol	2400	0	2200	ug/Kg	92				70 (54)	130 (145)	
2,4-Dimethylphenol	2400	0	2700	ug/Kg	113				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2400	0	2100	ug/Kg	88				70 (68)	130 (112)	
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88				70 (72)	130 (118)	
Naphthalene	2400	0	2000	ug/Kg	83				70 (72)	130 (110)	
4-Chloroaniline	2400	0	850	ug/Kg	35	*			70 (10)	130 (91)	
Hexachlorobutadiene	2400	0	2100	ug/Kg	88				70 (66)	130 (114)	
Caprolactam	2400	0	2200	ug/Kg	92				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83				70 (57)	130 (132)	
2-Methylnaphthalene	2400	0	2000	ug/Kg	83				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4700	0	6200	ug/Kg	132				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2400	0	2000	ug/Kg	83				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83				70 (72)	130 (117)	
1,1-Biphenyl	2400	0	2300	ug/Kg	96				70 (75)	130 (113)	
2-Chloronaphthalene	2400	0	2100	ug/Kg	88				70 (67)	130 (118)	
2-Nitroaniline	2400	0	2000	ug/Kg	83				70 (69)	130 (127)	
Dimethylphthalate	2400	0	2100	ug/Kg	88				70 (70)	130 (113)	
Acenaphthylene	2400	0	2200	ug/Kg	92				70 (79)	130 (118)	
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88				70 (70)	130 (125)	
3-Nitroaniline	2400	0	1300	ug/Kg	54	*			70 (30)	130 (99)	
Acenaphthene	2400	0	2000	ug/Kg	83				70 (70)	130 (121)	
2,4-Dinitrophenol	4700	0	3000	ug/Kg	64				20 (10)	160 (155)	
4-Nitrophenol	4700	0	3700	ug/Kg	79				20 (45)	160 (133)	
Dibenzofuran	2400	0	2000	ug/Kg	83				70 (72)	130 (110)	
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88				70 (55)	130 (128)	
Diethylphthalate	2400	0	2000	ug/Kg	83				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88				70 (71)	130 (108)	
Fluorene	2400	0	2100	ug/Kg	88				70 (68)	130 (116)	
4-Nitroaniline	2400	0	2000	ug/Kg	83				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2400	0	2200	ug/Kg	92				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2400	0	2200	ug/Kg	92				70 (65)	130 (121)	
Hexachlorobenzene	2400	0	2200	ug/Kg	92				70 (67)	130 (118)	
Atrazine	2400	0	2700	ug/Kg	113				70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4700	0	3200	ug/Kg	68				20 (47)	160 (128)	
Phenanthrene	2400	0	2100	ug/Kg	88				70 (52)	130 (128)	
Anthracene	2400	0	2200	ug/Kg	92				70 (62)	130 (124)	
Carbazole	2400	0	2100	ug/Kg	88				70 (59)	130 (119)	
Di-n-butylphthalate	2400	0	2100	ug/Kg	88				70 (69)	130 (118)	
Fluoranthene	2400	0	2000	ug/Kg	83				70 (44)	130 (125)	
Pyrene	2400	0	2200	ug/Kg	92				70 (26)	130 (142)	
Butylbenzylphthalate	2400	0	2300	ug/Kg	96				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2400	0	1700	ug/Kg	71				70 (33)	130 (116)	
Benzo(a)anthracene	2400	0	2200	ug/Kg	92				70 (71)	130 (114)	
Chrysene	2400	0	2100	ug/Kg	88				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2400	0	2600	ug/Kg	108				70 (42)	130 (169)	
Di-n-octyl phthalate	2400	0	2800	ug/Kg	117				70 (23)	130 (175)	
Benzo(b)fluoranthene	2400	0	2100	ug/Kg	88				70 (67)	130 (121)	
Benzo(k)fluoranthene	2400	0	1900	ug/Kg	79				70 (57)	130 (134)	
Benzo(a)pyrene	2400	0	2200	ug/Kg	92				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2400	0	2400	ug/Kg	100				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2400	0	2400	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2400	0	2200	ug/Kg	92				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2400	0	2300	ug/Kg	96				70 (69)	130 (124)	
1,4-Dioxane	2400	0	2100	ug/Kg	88				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1421-03MSD		**Client Sample ID: P001-CLAY-CF01-01MSD**						**DataFile: BF141763.D**			
Benzaldehyde	2400	0	1400	ug/Kg	58		7		20 (10)	160 (86)	30 (20)
Phenol	2400	0	2200	ug/Kg	92		4		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2400	0	2200	ug/Kg	92		4		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2400	0	2200	ug/Kg	92		4		70 (79)	130 (107)	30 (20)
2-Methylphenol	2400	0	2200	ug/Kg	92		4		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2400	0	2000	ug/Kg	83		5		70 (65)	130 (110)	30 (20)
Acetophenone	2400	0	2400	ug/Kg	100		8		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2400	0	2200	ug/Kg	92		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2400	0	2100	ug/Kg	88		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	2400	0	2200	ug/Kg	92		4		20 (65)	160 (117)	30 (20)
Nitrobenzene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (119)	30 (20)
Isophorone	2400	0	2200	ug/Kg	92		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2400	0	2200	ug/Kg	92		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2400	0	2800	ug/Kg	117		3		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2400	0	2200	ug/Kg	92		4		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88		0		70 (72)	130 (118)	30 (20)
Naphthalene	2400	0	2100	ug/Kg	88		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2400	0	940	ug/Kg	39	*	11		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2400	0	2200	ug/Kg	92		4		70 (66)	130 (114)	30 (20)
Caprolactam	2400	0	2200	ug/Kg	92		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2400	0	2000	ug/Kg	83		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4700	0	6400	ug/Kg	136		3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2400	0	2100	ug/Kg	88		6		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2400	0	2400	ug/Kg	100		4		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2400	0	2200	ug/Kg	92		4		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2400	0	2100	ug/Kg	88		6		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2400	0	2100	ug/Kg	88		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	2400	0	2200	ug/Kg	92		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2400	0	1200	ug/Kg	50	*	8		70 (30)	130 (99)	30 (20)
Acenaphthene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4700	0	2900	ug/Kg	62		3		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4700	0	3500	ug/Kg	74		7		20 (45)	160 (133)	30 (20)
Dibenzofuran	2400	0	2000	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2400	0	2000	ug/Kg	83		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88		0		70 (71)	130 (108)	30 (20)
Fluorene	2400	0	2100	ug/Kg	88		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2400	0	2000	ug/Kg	83		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2400	0	2300	ug/Kg	96		4		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2400	0	2300	ug/Kg	96		4		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2400	0	2400	ug/Kg	100		8		70 (67)	130 (118)	30 (20)
Atrazine	2400	0	2800	ug/Kg	117		3		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4700	0	3400	ug/Kg	72		6		20 (47)	160 (128)	30 (20)
Phenanthrene	2400	0	2200	ug/Kg	92		4		70 (52)	130 (128)	30 (20)
Anthracene	2400	0	2300	ug/Kg	96		4		70 (62)	130 (124)	30 (20)
Carbazole	2400	0	2200	ug/Kg	92		4		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2400	0	2200	ug/Kg	92		4		70 (69)	130 (118)	30 (20)
Fluoranthene	2400	0	2100	ug/Kg	88		6		70 (44)	130 (125)	30 (20)
Pyrene	2400	0	2100	ug/Kg	88		4		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2400	0	2300	ug/Kg	96		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2400	0	1900	ug/Kg	79		11		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2400	0	2300	ug/Kg	96		4		70 (71)	130 (114)	30 (20)
Chrysene	2400	0	2100	ug/Kg	88		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2400	0	2700	ug/Kg	113		5		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2400	0	3200	ug/Kg	133	*	13		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2400	0	1900	ug/Kg	79		11		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2400	0	2200	ug/Kg	92		15		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2400	0	2300	ug/Kg	96		4		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2400	0	2500	ug/Kg	104		4		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2400	0	2500	ug/Kg	104		4		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2400	0	2300	ug/Kg	96		4		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2400	0	2400	ug/Kg	100		4		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2400	0	2200	ug/Kg	92		4		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166853BS	Benzaldehyde	1700	950	ug/Kg	56				20 (10)	160 (133)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1500	ug/Kg	88				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	740	ug/Kg	44		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1700	ug/Kg	100				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4300	ug/Kg	130				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1600	ug/Kg	94				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1400	ug/Kg	82				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	910	ug/Kg	54		*		70 (28)	130 (100)	
	Acenaphthene	1700	1400	ug/Kg	82				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3000	ug/Kg	91				20 (37)	160 (128)	
	4-Nitrophenol	3300	2600	ug/Kg	79				20 (48)	160 (119)	
	Dibenzofuran	1700	1400	ug/Kg	82				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1500	ug/Kg	88				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166853BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	2000	ug/Kg	118				70 (47)	130 (152)	
	Pentachlorophenol	3300	2400	ug/Kg	73				20 (67)	160 (105)	
	Phenanthrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1700	ug/Kg	100				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1600	ug/Kg	94				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2100	ug/Kg	124				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	2100	ug/Kg	124				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1700	ug/Kg	100				70 (53)	130 (101)	
	1,4-Dioxane	1700	1400	ug/Kg	82				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141781.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BS	Benzaldehyde	50	25.9	ug/L	52				20 (10)	160 (162)	
	Phenol	50	40.2	ug/L	80				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	41.6	ug/L	83				70 (62)	130 (103)	
	2-Chlorophenol	50	41.9	ug/L	84				70 (70)	130 (117)	
	2-Methylphenol	50	40.5	ug/L	81				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	36.5	ug/L	73				70 (65)	130 (100)	
	Acetophenone	50	45.6	ug/L	91				70 (60)	130 (104)	
	3+4-Methylphenols	50	42.6	ug/L	85				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	40.8	ug/L	82				70 (57)	130 (107)	
	Hexachloroethane	50	41.0	ug/L	82				20 (76)	160 (118)	
	Nitrobenzene	50	39.9	ug/L	80				70 (58)	130 (106)	
	Isophorone	50	43.9	ug/L	88				70 (61)	130 (102)	
	2-Nitrophenol	50	43.6	ug/L	87				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	54.7	ug/L	109				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	42.5	ug/L	85				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	42.6	ug/L	85				70 (66)	130 (115)	
	Naphthalene	50	40.6	ug/L	81				70 (64)	130 (107)	
	4-Chloroaniline	50	17.8	ug/L	36		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	42.6	ug/L	85				70 (69)	130 (101)	
	Caprolactam	50	47.0	ug/L	94				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	41.0	ug/L	82				70 (65)	130 (114)	
	2-Methylnaphthalene	50	40.5	ug/L	81				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	120	ug/L	120				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	40.8	ug/L	82				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	40.9	ug/L	82				70 (70)	130 (106)	
	1,1-Biphenyl	50	45.7	ug/L	91				70 (72)	130 (98)	
	2-Chloronaphthalene	50	42.1	ug/L	84				70 (59)	130 (106)	
	2-Nitroaniline	50	39.2	ug/L	78				70 (73)	130 (114)	
	Dimethylphthalate	50	42.5	ug/L	85				70 (64)	130 (103)	
	Acenaphthylene	50	43.2	ug/L	86				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	42.9	ug/L	86				70 (64)	130 (110)	
	3-Nitroaniline	50	23.7	ug/L	47		*		70 (28)	130 (100)	
	Acenaphthene	50	40.1	ug/L	80				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	78.0	ug/L	78				20 (36)	160 (166)	
	4-Nitrophenol	100	67.7	ug/L	68				20 (45)	160 (147)	
	Dibenzofuran	50	39.6	ug/L	79				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	42.8	ug/L	86				70 (60)	130 (115)	
	Diethylphthalate	50	41.6	ug/L	83				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	42.5	ug/L	85				70 (61)	130 (104)	
	Fluorene	50	41.7	ug/L	83				70 (64)	130 (107)	
	4-Nitroaniline	50	38.6	ug/L	77				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	38.6	ug/L	77				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.3	ug/L	87				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.2	ug/L	86				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141781.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BS	Hexachlorobenzene	50	44.2	ug/L	88				70 (73)	130 (106)	
	Atrazine	50	55.6	ug/L	111				70 (76)	130 (120)	
	Pentachlorophenol	100	67.2	ug/L	67				20 (47)	160 (114)	
	Phenanthrene	50	42.4	ug/L	85				70 (62)	130 (109)	
	Anthracene	50	43.9	ug/L	88				70 (65)	130 (110)	
	Carbazole	50	41.5	ug/L	83				70 (62)	130 (106)	
	Di-n-butylphthalate	50	44.1	ug/L	88				70 (64)	130 (106)	
	Fluoranthene	50	41.2	ug/L	82				70 (64)	130 (110)	
	Pyrene	50	45.1	ug/L	90				70 (71)	130 (103)	
	Butylbenzylphthalate	50	49.6	ug/L	99				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	31.4	ug/L	63		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	44.2	ug/L	88				70 (62)	130 (107)	
	Chrysene	50	42.9	ug/L	86				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	56.5	ug/L	113				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	57.6	ug/L	115				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	37.5	ug/L	75				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	43.8	ug/L	88				70 (77)	130 (105)	
	Benzo(a)pyrene	50	44.3	ug/L	89				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	46.7	ug/L	93				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	46.7	ug/L	93				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	42.3	ug/L	85				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	46.4	ug/L	93				70 (72)	130 (101)	
	1,4-Dioxane	50	40.0	ug/L	80				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	40.0	ug/L	80				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141782.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BSD	Benzaldehyde	50	27.2	ug/L	54	5			20 (10)	160 (162)	20 (20)
	Phenol	50	42.1	ug/L	84	5			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	43.7	ug/L	87	5			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	43.9	ug/L	88	5			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	42.9	ug/L	86	6			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	37.7	ug/L	75	3			70 (65)	130 (100)	20 (20)
	Acetophenone	50	46.7	ug/L	93	2			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.2	ug/L	90	6			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	41.7	ug/L	83	2			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	43.5	ug/L	87	6			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	40.9	ug/L	82	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	45.0	ug/L	90	2			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	44.3	ug/L	89	2			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	55.8	ug/L	112	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	44.4	ug/L	89	4			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	44.1	ug/L	88	3			70 (66)	130 (115)	20 (20)
	Naphthalene	50	42.4	ug/L	85	4			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	18.3	ug/L	37	3	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	43.9	ug/L	88	3			70 (69)	130 (101)	20 (20)
	Caprolactam	50	49.7	ug/L	99	6			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	42.1	ug/L	84	3			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	41.3	ug/L	83	2			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	120	ug/L	120	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	42.4	ug/L	85	4			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	42.1	ug/L	84	3			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	47.9	ug/L	96	5			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	43.6	ug/L	87	4			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	40.5	ug/L	81	3			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	44.6	ug/L	89	5			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	45.1	ug/L	90	4			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	44.2	ug/L	88	3			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	25.4	ug/L	51	7	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	41.9	ug/L	84	4			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	79.0	ug/L	79	1			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	70.6	ug/L	71	4			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	41.4	ug/L	83	4			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	44.8	ug/L	90	5			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.8	ug/L	88	5			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.4	ug/L	89	4			70 (61)	130 (104)	20 (20)
	Fluorene	50	43.4	ug/L	87	4			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	40.8	ug/L	82	6			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	41.5	ug/L	83	7			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	45.1	ug/L	90	4			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	45.4	ug/L	91	5			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141782.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BSD	Hexachlorobenzene	50	46.7	ug/L	93	6			70 (73)	130 (106)	20 (20)
	Atrazine	50	58.7	ug/L	117	5			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	70.3	ug/L	70	5			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	44.7	ug/L	89	5			70 (62)	130 (109)	20 (20)
	Anthracene	50	45.3	ug/L	91	3			70 (65)	130 (110)	20 (20)
	Carbazole	50	43.3	ug/L	87	4			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	47.0	ug/L	94	6			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	42.8	ug/L	86	4			70 (64)	130 (110)	20 (20)
	Pyrene	50	46.1	ug/L	92	2			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	51.5	ug/L	103	4			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	32.8	ug/L	66	4	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	45.1	ug/L	90	2			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.4	ug/L	89	3			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	58.8	ug/L	118	4			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	59.6	ug/L	119	3			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	44.9	ug/L	90	18			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	40.8	ug/L	82	7			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	47.3	ug/L	95	7			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	49.1	ug/L	98	5			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	49.3	ug/L	99	5			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	44.2	ug/L	88	4			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	47.2	ug/L	94	2			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	41.9	ug/L	84	5			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	41.3	ug/L	83	3			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166853BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141776.D Lab Sample ID: PB166853BL

Instrument ID: BNA_F Date Extracted: 02/25/2025

Matrix: (soil/water) SOIL Date Analyzed: 02/26/2025

Level: (low/med) LOW Time Analyzed: 11:49

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166853BS	PB166853BS	BF141777.D	02/26/2025
B-163-SB01	Q1415-01	BF141769.D	02/25/2025
B-172-SB01	Q1415-02	BF141768.D	02/25/2025
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025
B-172-SB02	Q1415-04	BF141766.D	02/25/2025
B-163-SB02	Q1415-03	BF141767.D	02/25/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166875BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141780.D Lab Sample ID: PB166875BL

Instrument ID: BNA_F Date Extracted: 02/26/2025

Matrix: (soil/water) Water Date Analyzed: 02/26/2025

Level: (low/med) LOW Time Analyzed: 13:55

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166875BS	PB166875BS	BF141781.D	02/26/2025
PB166875BSD	PB166875BSD	BF141782.D	02/26/2025
B-173-GW01	Q1415-06	BF141787.D	02/26/2025
FB02222025	Q1415-05	BF141788.D	02/26/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141471.D DFTPP Injection Date: 02/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	12.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.4 (18.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141472.D	02/06/2025	11:07
SSTDICC005	SSTDICC005	BF141473.D	02/06/2025	11:34
SSTDICC010	SSTDICC010	BF141474.D	02/06/2025	12:00
SSTDICC020	SSTDICC020	BF141475.D	02/06/2025	12:26
SSTDICCC040	SSTDICCC040	BF141476.D	02/06/2025	12:55
SSTDICC050	SSTDICC050	BF141477.D	02/06/2025	13:21
SSTDICC060	SSTDICC060	BF141478.D	02/06/2025	13:47
SSTDICC080	SSTDICC080	BF141479.D	02/06/2025	14:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141754.D DFTPP Injection Date: 02/25/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (19.2) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141755.D	02/25/2025	10:34
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025	14:07
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025	14:36
B-172-SB02	Q1415-04	BF141766.D	02/25/2025	16:05
B-163-SB02	Q1415-03	BF141767.D	02/25/2025	16:35
B-172-SB01	Q1415-02	BF141768.D	02/25/2025	17:05
B-163-SB01	Q1415-01	BF141769.D	02/25/2025	17:34

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141774.D DFTPP Injection Date: 02/26/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	47.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141775.D	02/26/2025	10:45
PB166853BL	PB166853BL	BF141776.D	02/26/2025	11:49
PB166853BS	PB166853BS	BF141777.D	02/26/2025	12:19
PB166875BL	PB166875BL	BF141780.D	02/26/2025	13:55
PB166875BS	PB166875BS	BF141781.D	02/26/2025	14:24
PB166875BSD	PB166875BSD	BF141782.D	02/26/2025	14:54
B-173-GW01	Q1415-06	BF141787.D	02/26/2025	17:27
FB02222025	Q1415-05	BF141788.D	02/26/2025	17:56

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	83876	6.781	333850	8.06	179797	9.82
	UPPER LIMIT	167752	7.281	667700	8.563	359594	10.316
	LOWER LIMIT	41938	6.281	166925	7.563	89898.5	9.316
	EPA SAMPLE NO.						
01	B-163-SB01	65687	6.78	241105	8.06	115261	9.82
02	B-172-SB01	68668	6.78	275032	8.06	146934	9.81
03	B-163-SB02	74409	6.78	292573	8.06	153922	9.81
04	B-172-SB02	71117	6.78	279572	8.06	151408	9.81
05	P001-CLAY-CF01-01MS	88792	6.78	356048	8.06	194554	9.82
06	P001-CLAY-CF01-01MSD	75675	6.78	299933	8.06	161806	9.82

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	280239	11.304	152344	13.939	167961	15.386
	UPPER LIMIT	560478	11.804	304688	14.439	335922	15.886
	LOWER LIMIT	140120	10.804	76172	13.439	83980.5	14.886
	EPA SAMPLE NO.						
01	B-163-SB01	181981	11.30	152705	13.94	176440	15.38
02	B-172-SB01	243302	11.30	170277	13.94	176972	15.39
03	B-163-SB02	248859	11.30	169140	13.94	184984	15.39
04	B-172-SB02	244202	11.30	165983	13.94	176431	15.39
05	P001-CLAY-CF01-01MS	323859	11.30	195463	13.95	188853	15.39
06	P001-CLAY-CF01-01MSD	253973	11.30	171769	13.94	186973	15.39

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	85384	6.781	345346	8.06	188350	9.82
	UPPER LIMIT	170768	7.281	690692	8.563	376700	10.316
	LOWER LIMIT	42692	6.281	172673	7.563	94175	9.316
	EPA SAMPLE NO.						
01	PB166853BL	81286	6.78	323646	8.06	177621	9.82
02	PB166853BS	81688	6.78	331787	8.06	180365	9.82
03	PB166875BL	76736	6.78	309972	8.06	172156	9.82
04	PB166875BS	82911	6.78	323947	8.06	182265	9.82
05	PB166875BSD	81030	6.78	321539	8.06	179613	9.82
06	FB02222025	78152	6.78	311819	8.06	173235	9.82
07	B-173-GW01	70131	6.78	281804	8.06	154242	9.81

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	315416	11.304	190171	13.945	189428	15.392
	UPPER LIMIT	630832	11.804	380342	14.445	378856	15.892
	LOWER LIMIT	157708	10.804	95085.5	13.445	94714	14.892
	EPA SAMPLE NO.						
01	PB166853BL	318142	11.30	217249	13.94	172479	15.39
02	PB166853BS	319305	11.30	191917	13.95	177241	15.39
03	PB166875BL	297565	11.30	205070	13.94	168978	15.39
04	PB166875BS	312748	11.30	195301	13.95	182516	15.39
05	PB166875BSD	311091	11.30	197944	13.95	175575	15.39
06	FB02222025	306559	11.30	234571	13.94	196458	15.39
07	B-173-GW01	262674	11.30	181385	13.94	166658	15.39

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		30 (18) - 130 (112)	94%	SPK: 150
13127-88-3	Phenol-d6	133		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.7		30 (18) - 130 (107)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.0		30 (20) - 130 (109)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	104		30 (10) - 130 (105)	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81300	6.781			
1146-65-2	Naphthalene-d8	324000	8.063			
15067-26-2	Acenaphthene-d10	178000	9.816			
1517-22-2	Phenanthrene-d10	318000	11.298			
1719-03-5	Chrysene-d12	217000	13.939			
1520-96-3	Perylene-d12	172000	15.386			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	141		15 (10) - 110 (139)	94%	SPK: 150
13127-88-3	Phenol-d6	136		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.5		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.6		30 (52) - 130 (132)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (48) - 130 (125)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76700	6.781			
1146-65-2	Naphthalene-d8	310000	8.063			
15067-26-2	Acenaphthene-d10	172000	9.816			
1517-22-2	Phenanthrene-d10	298000	11.298			
1719-03-5	Chrysene-d12	205000	13.939			
1520-96-3	Perylene-d12	169000	15.386			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	950		180	330	ug/Kg
108-95-2	Phenol	1400		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		90.9	170	ug/Kg
98-86-2	Acetophenone	1600		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1500		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1500		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.5	170	ug/Kg
91-20-3	Naphthalene	1400		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	740		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4300	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1400		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.7	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	910		89.2	170	ug/Kg
83-32-9	Acenaphthene	1400		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	2600		120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.6	170	ug/Kg
86-73-7	Fluorene	1500		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1500		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	2000		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	2400		77.3	330	ug/Kg
85-01-8	Phenanthrene	1500		84.0	170	ug/Kg
120-12-7	Anthracene	1600		84.4	170	ug/Kg
86-74-8	Carbazole	1500		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1500		81.7	170	ug/Kg
129-00-0	Pyrene	1700		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.7	170	ug/Kg
218-01-9	Chrysene	1600		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	131		30 (15) - 130 (107)	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.9		30 (18) - 130 (107)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.9		30 (20) - 130 (109)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		30 (10) - 130 (116)	96%	SPK: 150
1718-51-0	Terphenyl-d14	116		30 (10) - 130 (105)	116%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81700	6.781			
1146-65-2	Naphthalene-d8	332000	8.063			
15067-26-2	Acenaphthene-d10	180000	9.816			
1517-22-2	Phenanthrene-d10	319000	11.304			
1719-03-5	Chrysene-d12	192000	13.945			
1520-96-3	Perylene-d12	177000	15.386			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	25.9		4.00	10.0	ug/L
108-95-2	Phenol	40.2		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.6		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	41.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	40.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	36.5		1.40	5.00	ug/L
98-86-2	Acetophenone	45.6		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.6		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.8		1.50	2.50	ug/L
67-72-1	Hexachloroethane	41.0		1.00	5.00	ug/L
98-95-3	Nitrobenzene	39.9		1.30	5.00	ug/L
78-59-1	Isophorone	43.9		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	43.6		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.7		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.5		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.6		0.88	5.00	ug/L
91-20-3	Naphthalene	40.6		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	17.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.6		1.30	5.00	ug/L
105-60-2	Caprolactam	47.0		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.0		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.5		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	40.9		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	45.7		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.1		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	39.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	42.5		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	43.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.9		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	23.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	40.1		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	78.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	67.7		2.00	10.0	ug/L
132-64-9	Dibenzofuran	39.6		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	41.6		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	42.5		0.98	5.00	ug/L
86-73-7	Fluorene	41.7		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	38.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	38.6		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.3		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.2		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	44.2		1.10	5.00	ug/L
1912-24-9	Atrazine	55.6		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	67.2		1.90	10.0	ug/L
85-01-8	Phenanthrene	42.4		0.89	5.00	ug/L
120-12-7	Anthracene	43.9		1.10	5.00	ug/L
86-74-8	Carbazole	41.5		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	41.2		1.30	5.00	ug/L
129-00-0	Pyrene	45.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.6		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.4		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.2		0.94	5.00	ug/L
218-01-9	Chrysene	42.9		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	56.5		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.6		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	37.5		1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	43.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	44.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.7		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.7		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.3		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.4		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.0		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40.0		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	127		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.5		30 (49) - 130 (133)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.2		30 (52) - 130 (132)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82900	6.781			
1146-65-2	Naphthalene-d8	324000	8.063			
15067-26-2	Acenaphthene-d10	182000	9.816			
1517-22-2	Phenanthrene-d10	313000	11.304			
1719-03-5	Chrysene-d12	195000	13.945			
1520-96-3	Perylene-d12	183000	15.386			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	27.2		4.00	10.0	ug/L
108-95-2	Phenol	42.1		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.7		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	43.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	42.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.7		1.40	5.00	ug/L
98-86-2	Acetophenone	46.7		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.2		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	43.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	40.9		1.30	5.00	ug/L
78-59-1	Isophorone	45.0		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	44.3		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.4		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.1		0.88	5.00	ug/L
91-20-3	Naphthalene	42.4		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	18.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.9		1.30	5.00	ug/L
105-60-2	Caprolactam	49.7		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	42.1		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.3		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.4		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	42.1		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.6		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	40.5		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.6		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	45.1		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	44.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	25.4		1.40	5.00	ug/L
83-32-9	Acenaphthene	41.9		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	79.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	70.6		2.00	10.0	ug/L
132-64-9	Dibenzofuran	41.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	44.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.8		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.4		0.98	5.00	ug/L
86-73-7	Fluorene	43.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	40.8		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	41.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.1		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.7		1.10	5.00	ug/L
1912-24-9	Atrazine	58.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	70.3		1.90	10.0	ug/L
85-01-8	Phenanthrene	44.7		0.89	5.00	ug/L
120-12-7	Anthracene	45.3		1.10	5.00	ug/L
86-74-8	Carbazole	43.3		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	47.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	42.8		1.30	5.00	ug/L
129-00-0	Pyrene	46.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	51.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	32.8		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.1		0.94	5.00	ug/L
218-01-9	Chrysene	44.4		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	58.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	59.6		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.9		1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	40.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.2		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	41.9		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		15 (10) - 110 (139)	88%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (49) - 130 (133)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.7		30 (52) - 130 (132)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (48) - 130 (125)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81000	6.781			
1146-65-2	Naphthalene-d8	322000	8.063			
15067-26-2	Acenaphthene-d10	180000	9.816			
1517-22-2	Phenanthrene-d10	311000	11.304			
1719-03-5	Chrysene-d12	198000	13.945			
1520-96-3	Perylene-d12	176000	15.386			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		260	470	ug/Kg
108-95-2	Phenol	2100		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2100		120	240	ug/Kg
95-57-8	2-Chlorophenol	2100		120	240	ug/Kg
95-48-7	2-Methylphenol	2100		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		130	240	ug/Kg
98-86-2	Acetophenone	2200		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2000		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2100		120	240	ug/Kg
98-95-3	Nitrobenzene	2000		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2000		120	240	ug/Kg
106-47-8	4-Chloroaniline	850		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2100		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6200	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2300		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2100		120	240	ug/Kg
88-74-4	2-Nitroaniline	2000		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1300		130	240	ug/Kg
83-32-9	Acenaphthene	2000		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	3000		340	470	ug/Kg
100-02-7	4-Nitrophenol	3700		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2200		120	240	ug/Kg
1912-24-9	Atrazine	2700		130	240	ug/Kg
87-86-5	Pentachlorophenol	3200		110	470	ug/Kg
85-01-8	Phenanthrene	2100		120	240	ug/Kg
120-12-7	Anthracene	2200		120	240	ug/Kg
86-74-8	Carbazole	2100		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2100		120	240	ug/Kg
206-44-0	Fluoranthene	2000		120	240	ug/Kg
129-00-0	Pyrene	2200		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2200		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2600		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	2800		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		120	240	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2200		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2400		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2400		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2300		120	240	ug/Kg
123-91-1	1,4-Dioxane	2100		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		30 (18) - 130 (112)	67%	SPK: 150
13127-88-3	Phenol-d6	98.8		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.3		30 (18) - 130 (107)	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.2		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.2		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	74.9		30 (10) - 130 (105)	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88800	6.781			
1146-65-2	Naphthalene-d8	356000	8.063			
15067-26-2	Acenaphthene-d10	195000	9.816			
1517-22-2	Phenanthrene-d10	324000	11.304			
1719-03-5	Chrysene-d12	195000	13.945			
1520-96-3	Perylene-d12	189000	15.386			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		260	470	ug/Kg
108-95-2	Phenol	2200		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		120	240	ug/Kg
95-57-8	2-Chlorophenol	2200		120	240	ug/Kg
95-48-7	2-Methylphenol	2200		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		130	240	ug/Kg
98-86-2	Acetophenone	2400		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2200		120	240	ug/Kg
98-95-3	Nitrobenzene	2100		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2800		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2100		120	240	ug/Kg
106-47-8	4-Chloroaniline	940		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2200		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6400	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2100		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2400		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2200		120	240	ug/Kg
88-74-4	2-Nitroaniline	2100		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1200		130	240	ug/Kg
83-32-9	Acenaphthene	2100		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	2900		350	470	ug/Kg
100-02-7	4-Nitrophenol	3500		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2300		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2300		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2400		120	240	ug/Kg
1912-24-9	Atrazine	2800		130	240	ug/Kg
87-86-5	Pentachlorophenol	3400		110	470	ug/Kg
85-01-8	Phenanthrene	2200		120	240	ug/Kg
120-12-7	Anthracene	2300		120	240	ug/Kg
86-74-8	Carbazole	2200		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2200		120	240	ug/Kg
206-44-0	Fluoranthene	2100		120	240	ug/Kg
129-00-0	Pyrene	2100		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2300		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2700		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	3200		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		120	240	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2300		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2500		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2500		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2300		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		120	240	ug/Kg
123-91-1	1,4-Dioxane	2200		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.9		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.5		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.1		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	71.3		30 (10) - 130 (105)	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75700	6.781			
1146-65-2	Naphthalene-d8	300000	8.063			
15067-26-2	Acenaphthene-d10	162000	9.816			
1517-22-2	Phenanthrene-d10	254000	11.304			
1719-03-5	Chrysene-d12	172000	13.939			
1520-96-3	Perylene-d12	187000	15.386			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141472.D 5 =BF141473.D 10 =BF141474.D 20 =BF141475.D 40 =BF141476.D 50 =BF141477.D 60 =BF141478.D 80 =BF1414
79.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.511	0.519	0.523	0.517	0.502	0.521	0.501	0.513	1.73
3)		Pyridine		1.053	1.205	1.311	1.263	1.256	1.261	1.204	1.222	6.79
4)		n-Nitrosodimet...		0.737	0.774	0.820	0.818	0.835	0.846	0.833	0.809	4.83
5)	S	2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.264	1.214	1.276	3.77
6)		Aniline		1.476	1.545	1.650	1.538	1.506	1.494	1.379	1.513	5.42
7)	S	Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.585	1.538	1.612	3.13
8)		2-Chlorophenol		1.399	1.410	1.446	1.379	1.368	1.345	1.302	1.378	3.38
9)		Benzaldehyde		0.892	0.993	0.981	0.821	0.747	0.706		0.857	13.92
10)	C	Phenol		1.693	1.681	1.817	1.685	1.659	1.644	1.569	1.678	4.42
11)		bis(2-Chloroet...		1.262	1.229	1.296	1.266	1.252	1.262	1.256	1.261	1.59
12)		1,3-Dichlorobe...		1.473	1.482	1.554	1.441	1.441	1.430	1.366	1.455	3.95
13)	C	1,4-Dichlorobe...		1.546	1.538	1.571	1.471	1.465	1.439	1.379	1.487	4.59
14)		1,2-Dichlorobe...		1.393	1.439	1.473	1.374	1.351	1.345	1.285	1.380	4.55
15)		Benzyl Alcohol		1.191	1.251	1.322	1.262	1.248	1.218	1.163	1.236	4.19
16)		2,2'-oxybis(1-...		2.222	2.245	2.313	2.165	2.119	2.082	1.959	2.158	5.45
17)		2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.066	1.024	1.079	3.15
18)		Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.544	0.526	0.550	3.59
19)	P	n-Nitroso-di-n...	0.950	0.978	0.985	1.039	0.969	0.947	0.941	0.907	0.964	4.03
20)		3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.319	1.244	1.371	5.52
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.517	0.502	0.521	0.493	0.483	0.488	0.478	0.498	3.35
23)	S	Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.381	0.384	0.383	1.58
24)		Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.375	0.376	0.374	1.29
25)		Isophorone		0.611	0.594	0.633	0.611	0.601	0.617	0.614	0.611	2.04
26)	C	2-Nitrophenol		0.171	0.175	0.190	0.193	0.190	0.193	0.191	0.186	4.91
27)		2,4-Dimethylph...		0.208	0.212	0.221	0.223	0.218	0.220	0.220	0.217	2.46
28)		bis(2-Chloroet...		0.384	0.390	0.408	0.394	0.387	0.391	0.388	0.392	2.03
29)	C	2,4-Dichloroph...		0.286	0.287	0.312	0.296	0.290	0.292	0.292	0.294	2.95
30)		1,2,4-Trichlor...		0.327	0.321	0.331	0.317	0.312	0.317	0.314	0.320	2.12
31)		Naphthalene		1.067	1.041	1.096	1.037	1.012	1.022	1.012	1.041	2.98
32)		Benzoic acid			0.186	0.217	0.229	0.233	0.243	0.246	0.226	9.70
33)		4-Chloroaniline		0.354	0.352	0.382	0.364	0.360	0.364	0.370	0.363	2.82
34)	C	Hexachlorobuta...		0.193	0.191	0.200	0.192	0.188	0.191	0.189	0.192	2.01
35)		Caprolactam		0.083	0.085	0.094	0.093	0.088	0.091	0.092	0.089	4.75
36)	C	4-Chloro-3-met...		0.310	0.324	0.342	0.329	0.324	0.325	0.324	0.325	2.91
37)		2-Methylnaphth...		0.688	0.689	0.719	0.669	0.659	0.666	0.652	0.677	3.42
38)		1-Methylnaphth...		0.680	0.657	0.691	0.656	0.637	0.640	0.631	0.656	3.40

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.582	0.588	0.600	0.584	0.560	0.574	0.562	0.579	2.50
41)	P	Hexachlorocycl...		0.138	0.180	0.204	0.205	0.214	0.214	0.192	15.36
42)	S	2,4,6-Tribromo...	0.201	0.200	0.210	0.200	0.199	0.201	0.196	0.201	2.08
43)	C	2,4,6-Trichlor...	0.364	0.365	0.389	0.377	0.373	0.378	0.372	0.374	2.28
44)		2,4,5-Trichlor...	0.385	0.407	0.430	0.410	0.394	0.409	0.401	0.405	3.51
45)	S	2-Fluorobiphenyl	1.373	1.360	1.385	1.269	1.241	1.259	1.201	1.298	5.62
46)		1,1'-Biphenyl	1.582	1.564	1.632	1.545	1.517	1.537	1.478	1.551	3.16
47)		2-Chloronaphth...	1.167	1.161	1.211	1.135	1.114	1.136	1.103	1.147	3.18
48)		2-Nitroaniline	0.371	0.371	0.394	0.390	0.382	0.401	0.385	0.385	2.92
49)		Acenaphthylene	1.739	1.736	1.791	1.696	1.660	1.689	1.626	1.705	3.21
50)		Dimethylphthalate	1.382	1.359	1.408	1.345	1.324	1.341	1.345	1.358	2.09
51)		2,6-Dinitrotol...	0.289	0.290	0.314	0.301	0.295	0.299	0.290	0.297	3.06
52)	C	Acenaphthene	1.186	1.164	1.188	1.152	1.108	1.127	1.101	1.147	3.10
53)		3-Nitroaniline	0.312	0.313	0.335	0.319	0.320	0.321	0.316	0.319	2.35
54)	P	2,4-Dinitrophenol		0.133	0.167	0.177	0.185	0.198	0.198	0.176	13.83
55)		Dibenzofuran	1.768	1.722	1.774	1.673	1.633	1.634	1.576	1.683	4.44
56)	P	4-Nitrophenol	0.190	0.216	0.247	0.249	0.249	0.257	0.251	0.237	10.43
57)		2,4-Dinitrotol...	0.383	0.403	0.414	0.398	0.390	0.396	0.383	0.395	2.83
58)		Fluorene	1.359	1.361	1.377	1.290	1.239	1.263	1.221	1.301	4.90
59)		2,3,4,6-Tetrac...	0.332	0.361	0.359	0.348	0.348	0.355	0.340	0.349	2.95
60)		Diethylphthalate	1.400	1.346	1.398	1.330	1.300	1.308	1.269	1.336	3.71
61)		4-Chlorophenyl...	0.661	0.643	0.659	0.622	0.602	0.611	0.585	0.626	4.66
62)		4-Nitroaniline	0.315	0.319	0.333	0.335	0.319	0.327	0.324	0.324	2.28
63)		Azobenzene	1.348	1.329	1.385	1.326	1.295	1.320	1.294	1.328	2.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.116	0.140	0.142	0.142	0.146	0.148	0.139	8.48
66)	c	n-Nitrosodiphe...	0.650	0.653	0.674	0.627	0.625	0.625	0.627	0.640	2.97
67)		4-Bromophenyl-...	0.228	0.220	0.234	0.221	0.220	0.221	0.221	0.224	2.46
68)		Hexachlorobenzene	0.229	0.234	0.241	0.227	0.224	0.228	0.228	0.230	2.46
69)		Atrazine	0.200	0.203	0.214	0.185	0.185	0.182	0.176	0.192	7.12
70)	C	Pentachlorophenol	0.116	0.131	0.151	0.154	0.158	0.159	0.160	0.147	11.68
71)		Phenanthrene	1.141	1.132	1.161	1.084	1.071	1.069	1.049	1.101	3.91
72)		Anthracene	1.168	1.126	1.158	1.082	1.084	1.071	1.057	1.107	3.99
73)		Carbazole	1.022	1.026	1.076	0.986	0.966	0.961	0.933	0.996	4.87
74)		Di-n-butylphth...	1.165	1.156	1.223	1.141	1.132	1.126	1.105	1.150	3.29
75)	C	Fluoranthene	1.251	1.239	1.243	1.151	1.129	1.091	1.065	1.167	6.63
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.474	0.487	0.334	0.528	0.432	0.351	0.481	0.441	16.58
78)		Pyrene	1.528	1.557	1.717	1.745	1.774	1.807	1.789	1.703	6.67
79)	S	Terphenyl-d14	1.129	1.104	1.211	1.198	1.209	1.234	1.208	1.185	4.07
80)		Butylbenzylpht...	0.525	0.540	0.605	0.609	0.603	0.623	0.624	0.590	6.83
81)		Benzo(a)anthra...	1.381	1.332	1.350	1.345	1.309	1.309	1.279	1.329	2.51
82)		3,3'-Dichlorob...	0.397	0.411	0.407	0.377	0.363	0.353	0.358	0.381	6.31
83)		Chrysene	1.187	1.223	1.314	1.201	1.215	1.224	1.229	1.228	3.34
84)		Bis(2-ethylhex...	0.593	0.610	0.685	0.689	0.680	0.697	0.702	0.665	6.68
85)	c	Di-n-octyl pht...	0.802	0.814	0.910	0.965	1.010	1.051	1.090	0.949	11.82

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.987	1.029	1.186	1.288	1.341	1.410	1.408	1.236	14.06
88)		Benzo(b)fluora...	1.286	1.407	1.398	1.336	1.350	1.356	1.268	1.343	3.88
89)		Benzo(k)fluora...	1.113	1.216	1.247	1.142	1.074	1.098	1.138	1.147	5.49
90)	C	Benzo(a)pyrene	1.085	1.074	1.115	1.080	1.069	1.094	1.089	1.087	1.41
91)		Dibenzo(a,h)an...	0.796	0.828	0.970	1.051	1.092	1.138	1.134	1.001	14.13
92)		Benzo(g,h,i)pe...	0.805	0.864	1.001	1.100	1.144	1.203	1.218	1.048	15.60

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.379		8.1	
Benzaldehyde	0.857	0.938		9.5	
Phenol-d6	1.612	1.672		3.7	
Phenol	1.678	1.745		4.0	20.0
bis(2-Chloroethyl)ether	1.261	1.311		4.0	
2-Chlorophenol	1.378	1.463		6.2	
2-Methylphenol	1.079	1.115		3.3	
2,2-oxybis(1-Chloropropane)	2.158	2.073		-3.9	
Acetophenone	0.498	0.506		1.6	
3+4-Methylphenols	1.371	1.442		5.2	
n-Nitroso-di-n-propylamine	0.964	0.992	0.050	2.9	
Nitrobenzene-d5	0.383	0.384		0.3	
Hexachloroethane	0.550	0.581		5.6	
Nitrobenzene	0.374	0.377		0.8	
Isophorone	0.611	0.618		1.1	
2-Nitrophenol	0.186	0.199		7.0	20.0
2,4-Dimethylphenol	0.217	0.228		5.1	
bis(2-Chloroethoxy)methane	0.392	0.410		4.6	
2,4-Dichlorophenol	0.294	0.307		4.4	20.0
Naphthalene	1.041	1.073		3.1	
4-Chloroaniline	0.363	0.379		4.4	
Hexachlorobutadiene	0.192	0.201		4.7	20.0
Caprolactam	0.089	0.086		-3.4	
4-Chloro-3-methylphenol	0.325	0.325		0.0	20.0
2-Methylnaphthalene	0.677	0.700		3.4	
Hexachlorocyclopentadiene	0.192	0.198	0.050	3.1	
2,4,6-Trichlorophenol	0.374	0.383		2.4	20.0
2-Fluorobiphenyl	1.298	1.344		3.5	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.613		4.0	
2-Chloronaphthalene	1.147	1.203		4.9	
2-Nitroaniline	0.385	0.362		-6.0	
Dimethylphthalate	1.358	1.384		1.9	
Acenaphthylene	1.705	1.736		1.8	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.319	0.305		-4.4	
Acenaphthene	1.147	1.127		-1.7	20.0
2,4-Dinitrophenol	0.176	0.155	0.050	-11.9	
4-Nitrophenol	0.237	0.207	0.050	-12.7	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.672		-0.7	
2,4-Dinitrotoluene	0.395	0.376		-4.8	
Diethylphthalate	1.336	1.323		-1.0	
4-Chlorophenyl-phenylether	0.626	0.644		2.9	
Fluorene	1.301	1.287		-1.1	
4-Nitroaniline	0.324	0.286		-11.7	
4,6-Dinitro-2-methylphenol	0.139	0.136		-2.2	
n-Nitrosodiphenylamine	0.640	0.696		8.8	20.0
2,4,6-Tribromophenol	0.201	0.191		-5.0	
4-Bromophenyl-phenylether	0.224	0.247		10.3	
Hexachlorobenzene	0.230	0.252		9.6	
Atrazine	0.192	0.172		-10.4	
Pentachlorophenol	0.147	0.146		-0.7	20.0
Phenanthrene	1.101	1.126		2.3	
Anthracene	1.107	1.148		3.7	
Carbazole	0.996	0.955		-4.1	
Di-n-butylphthalate	1.150	1.169		1.7	
Fluoranthene	1.167	1.071		-8.2	20.0
Pyrene	1.703	1.941		14.0	
Terphenyl-d14	1.185	1.341		13.2	
Butylbenzylphthalate	0.590	0.653		10.7	
3,3-Dichlorobenzidine	0.381	0.421		10.5	
Benzo(a)anthracene	1.329	1.394		4.9	
Chrysene	1.228	1.271		3.5	
Bis(2-ethylhexyl)phthalate	0.665	0.826		24.2	
Di-n-octyl phthalate	0.949	1.341		41.3	20.0
Benzo(b)fluoranthene	1.343	1.171		-12.8	
Benzo(k)fluoranthene	1.147	0.994		-13.3	
Benzo(a)pyrene	1.087	1.099		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.236	1.495		21.0	
Dibenzo(a,h)anthracene	1.001	1.227		22.6	
Benzo(g,h,i)perylene	1.048	1.273		21.5	
1,2,4,5-Tetrachlorobenzene	0.579	0.620		7.1	
1,4-Dioxane	0.513	0.521		1.6	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.331		-5.2	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.366		7.1	
Benzaldehyde	0.857	0.907		5.8	
Phenol-d6	1.612	1.663		3.2	
Phenol	1.678	1.722		2.6	20.0
bis(2-Chloroethyl)ether	1.261	1.285		1.9	
2-Chlorophenol	1.378	1.467		6.5	
2-Methylphenol	1.079	1.099		1.9	
2,2-oxybis(1-Chloropropane)	2.158	2.011		-6.8	
Acetophenone	0.498	0.499		0.2	
3+4-Methylphenols	1.371	1.432		4.4	
n-Nitroso-di-n-propylamine	0.964	0.977	0.050	1.3	
Nitrobenzene-d5	0.383	0.375		-2.1	
Hexachloroethane	0.550	0.572		4.0	
Nitrobenzene	0.374	0.361		-3.5	
Isophorone	0.611	0.607		-0.7	
2-Nitrophenol	0.186	0.196		5.4	20.0
2,4-Dimethylphenol	0.217	0.221		1.8	
bis(2-Chloroethoxy)methane	0.392	0.404		3.1	
2,4-Dichlorophenol	0.294	0.303		3.1	20.0
Naphthalene	1.041	1.050		0.9	
4-Chloroaniline	0.363	0.381		5.0	
Hexachlorobutadiene	0.192	0.196		2.1	20.0
Caprolactam	0.089	0.090		1.1	
4-Chloro-3-methylphenol	0.325	0.327		0.6	20.0
2-Methylnaphthalene	0.677	0.692		2.2	
Hexachlorocyclopentadiene	0.192	0.186	0.050	-3.1	
2,4,6-Trichlorophenol	0.374	0.378		1.1	20.0
2-Fluorobiphenyl	1.298	1.311		1.0	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.592		2.6	
2-Chloronaphthalene	1.147	1.179		2.8	
2-Nitroaniline	0.385	0.371		-3.6	
Dimethylphthalate	1.358	1.404		3.4	
Acenaphthylene	1.705	1.716		0.6	
2,6-Dinitrotoluene	0.297	0.311		4.7	
3-Nitroaniline	0.319	0.316		-0.9	
Acenaphthene	1.147	1.148		0.1	20.0
2,4-Dinitrophenol	0.176	0.165	0.050	-6.3	
4-Nitrophenol	0.237	0.220	0.050	-7.2	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.683		0.0	
2,4-Dinitrotoluene	0.395	0.392		-0.8	
Diethylphthalate	1.336	1.362		1.9	
4-Chlorophenyl-phenylether	0.626	0.660		5.4	
Fluorene	1.301	1.325		1.8	
4-Nitroaniline	0.324	0.308		-4.9	
4,6-Dinitro-2-methylphenol	0.139	0.138		-0.7	
n-Nitrosodiphenylamine	0.640	0.669		4.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.224	0.239		6.7	
Hexachlorobenzene	0.230	0.248		7.8	
Atrazine	0.192	0.176		-8.3	
Pentachlorophenol	0.147	0.154		4.8	20.0
Phenanthrene	1.101	1.138		3.4	
Anthracene	1.107	1.135		2.5	
Carbazole	0.996	0.991		-0.5	
Di-n-butylphthalate	1.150	1.240		7.8	
Fluoranthene	1.167	1.148		-1.6	20.0
Pyrene	1.703	1.867		9.6	
Terphenyl-d14	1.185	1.316		11.1	
Butylbenzylphthalate	0.590	0.688		16.6	
3,3-Dichlorobenzidine	0.381	0.427		12.1	
Benzo(a)anthracene	1.329	1.363		2.6	
Chrysene	1.228	1.285		4.6	
Bis(2-ethylhexyl)phthalate	0.665	0.883		32.8	
Di-n-octyl phthalate	0.949	1.339		41.1	20.0
Benzo(b)fluoranthene	1.343	1.304		-2.9	
Benzo(k)fluoranthene	1.147	1.152		0.4	
Benzo(a)pyrene	1.087	1.110		2.1	20.0
Indeno(1,2,3-cd)pyrene	1.236	1.406		13.8	
Dibenzo(a,h)anthracene	1.001	1.141		14.0	
Benzo(g,h,i)perylene	1.048	1.186		13.2	
1,2,4,5-Tetrachlorobenzene	0.579	0.600		3.6	
1,4-Dioxane	0.513	0.531		3.5	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.345		-1.1	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Time: Feb 26 00:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

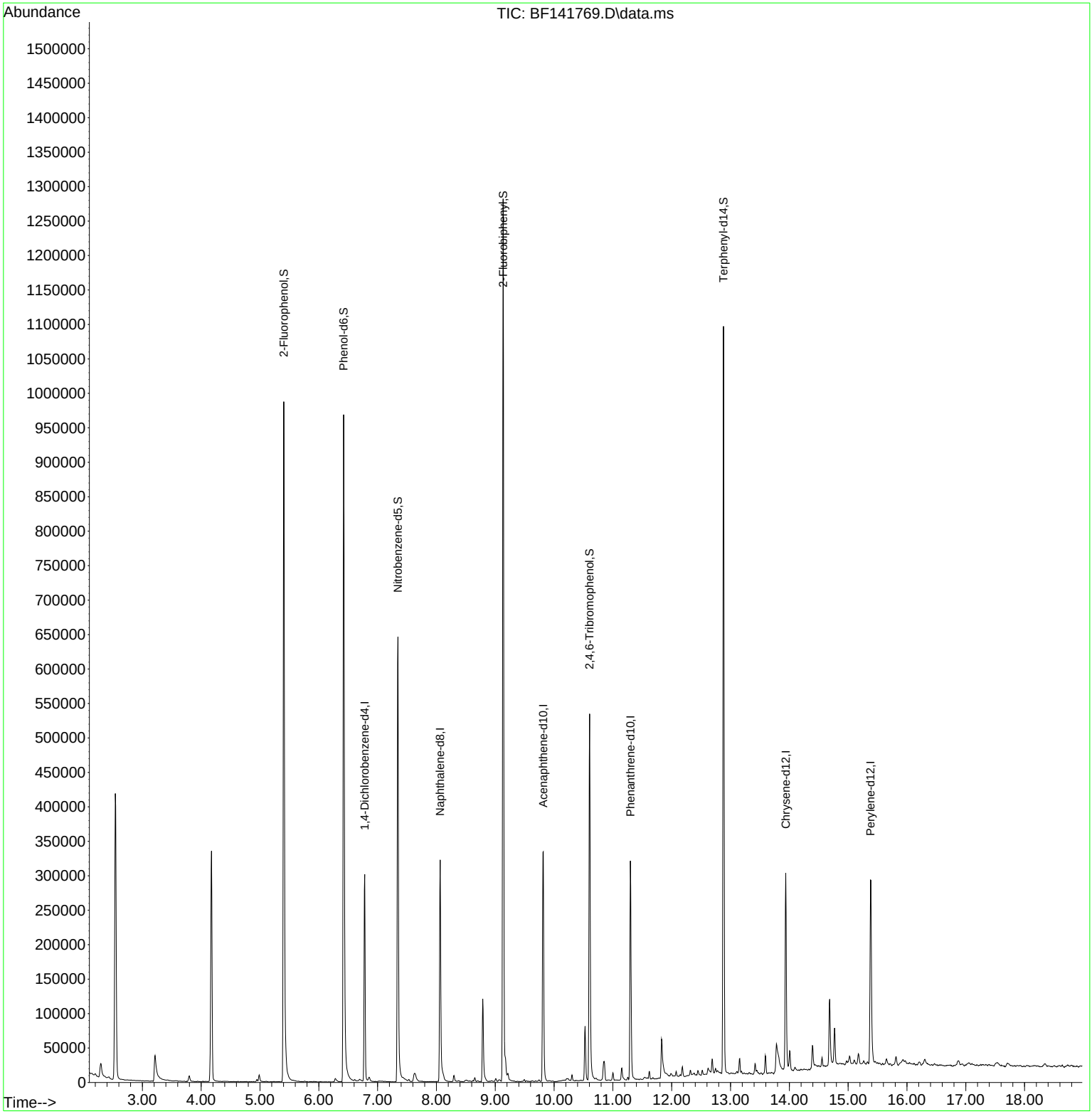
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	65687	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	241105	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	115261	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	181981	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	152705	20.000	ng	-0.02
86) Perylene-d12	15.380	264	176440	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	416394	99.380	ng	0.00
7) Phenol-d6	6.422	99	492798	93.056	ng	-0.02
23) Nitrobenzene-d5	7.345	82	318531	68.908	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	97463	84.176	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	578204	77.286	ng	-0.02
79) Terphenyl-d14	12.880	244	529478	58.534	ng	-0.02
Target Compounds						Qvalue

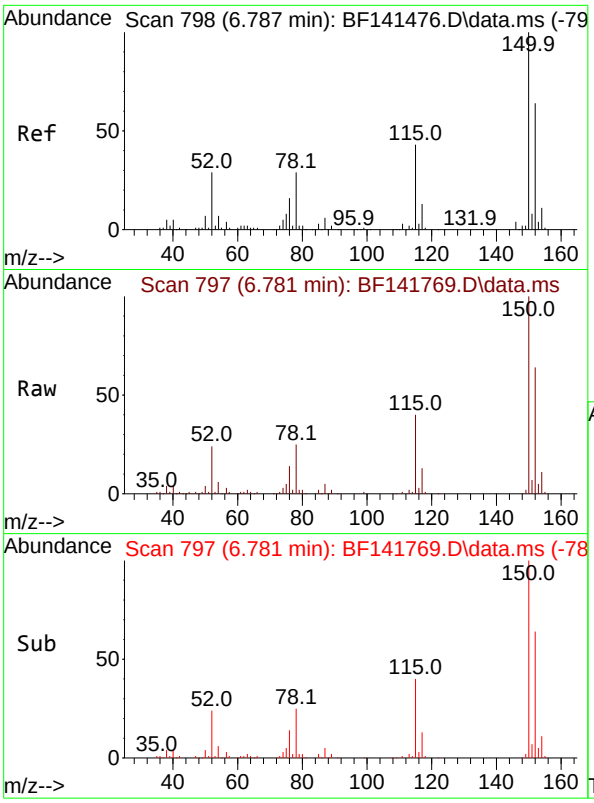
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Time: Feb 26 00:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



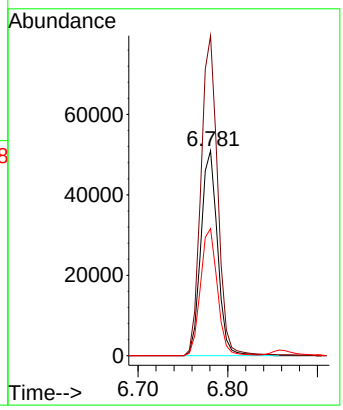


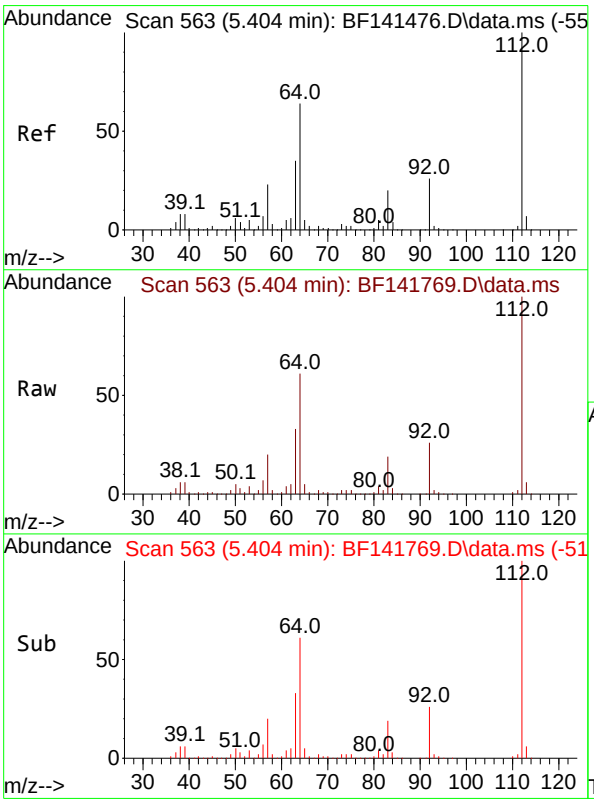
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:152 Resp: 65687

Ion	Ratio	Lower	Upper
152	100		
150	156.1	125.0	187.4
115	62.0	53.6	80.4

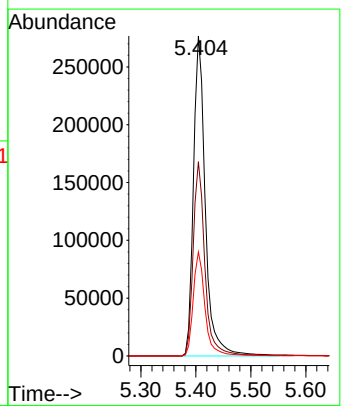


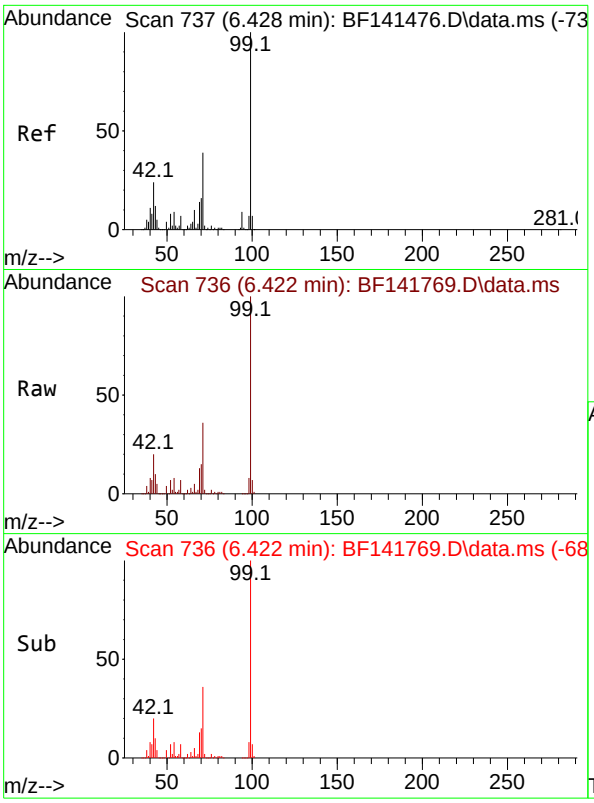


#5
2-Fluorophenol
Concen: 99.380 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:112 Resp: 416394

Ion	Ratio	Lower	Upper
112	100		
64	60.7	51.1	76.7
63	32.5	28.4	42.6



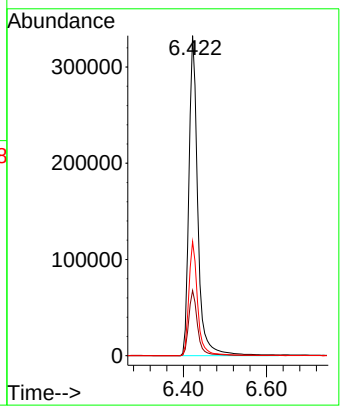


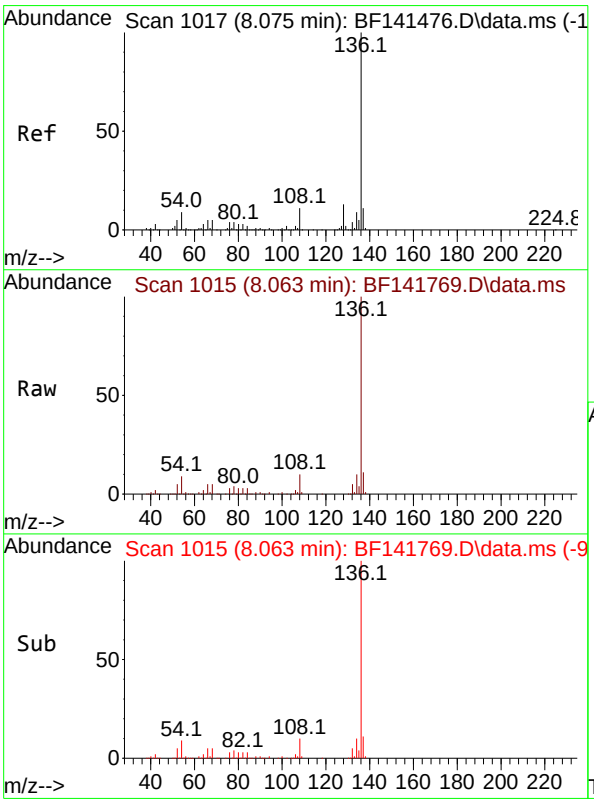
#7
Phenol-d6
Concen: 93.056 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion: 99 Resp: 492798

Ion	Ratio	Lower	Upper
99	100		
42	20.4	19.1	28.7
71	35.6	31.1	46.7

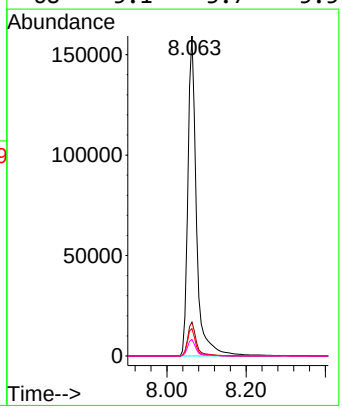


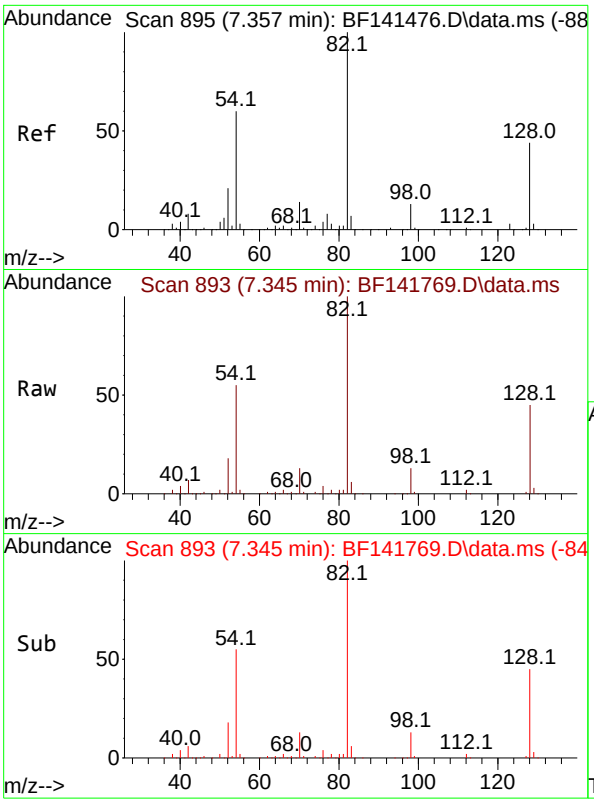


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:136 Resp: 241105

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	8.6	7.2	10.8
68	5.1	3.7	5.5



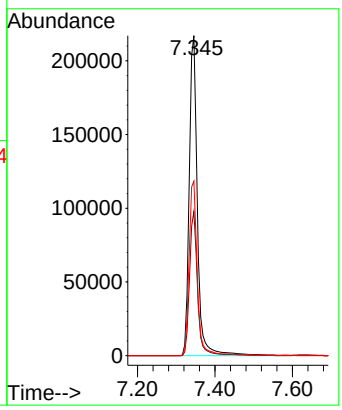


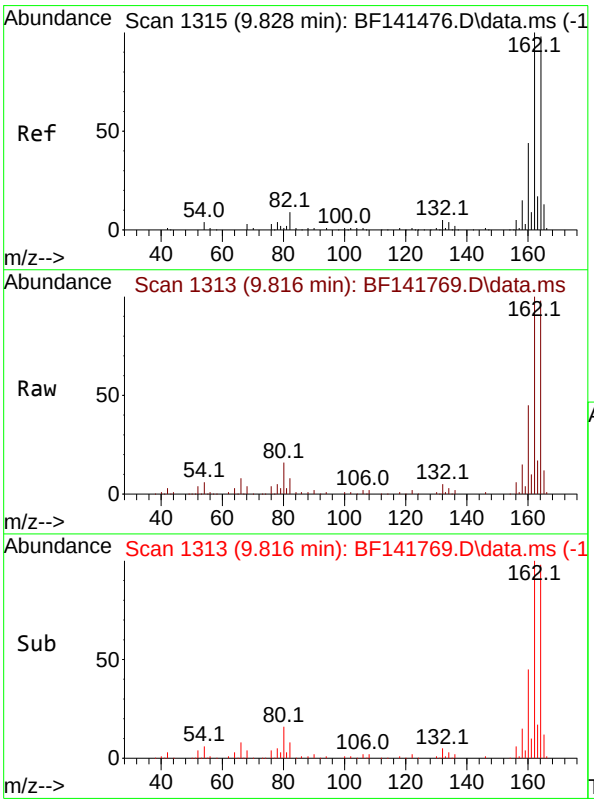
#23
Nitrobenzene-d5
Concen: 68.908 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion: 82 Resp: 318531

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.8	52.2
54	54.5	48.2	72.4

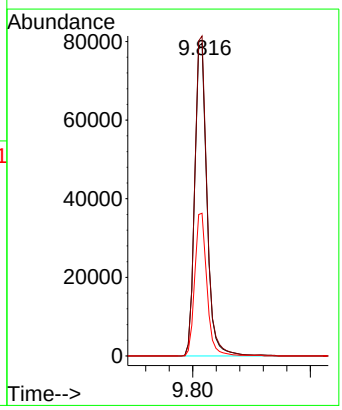


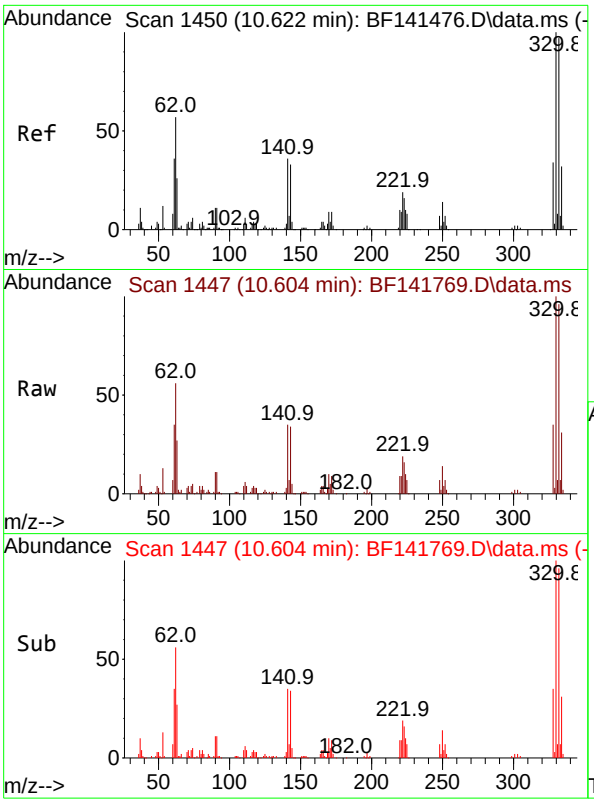


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:164 Resp: 115261

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.3	121.9
160	45.7	35.9	53.9



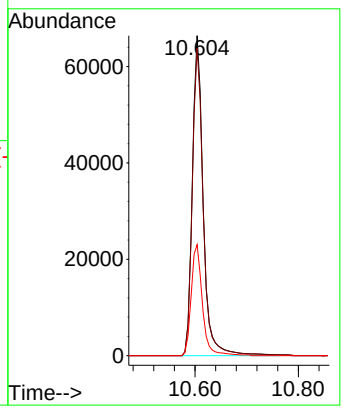


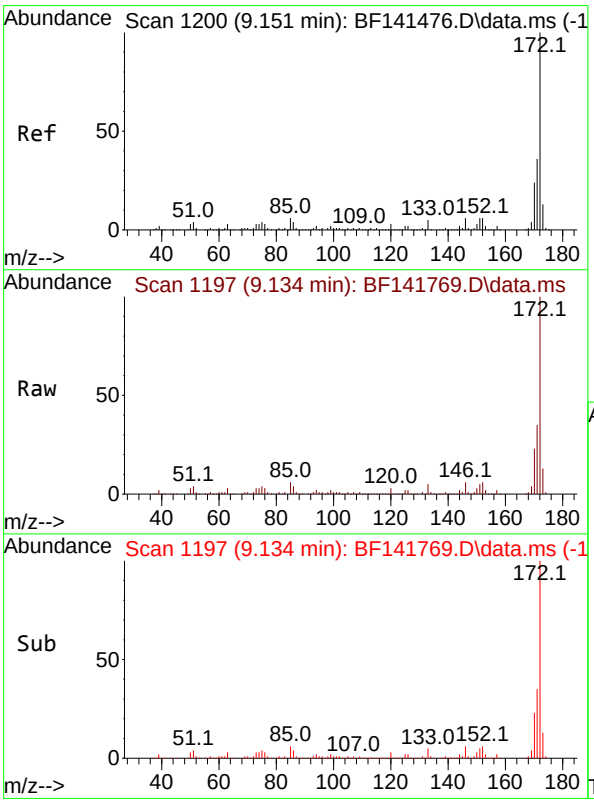
#42
2,4,6-Tribromophenol
Concen: 84.176 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:330 Resp: 97463

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.5	117.7
141	35.6	31.0	46.4

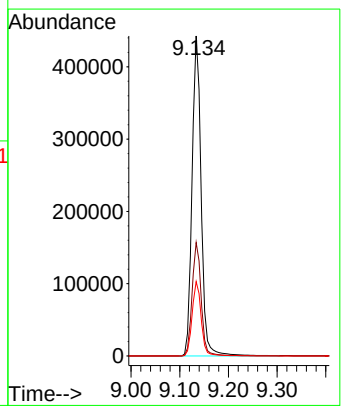


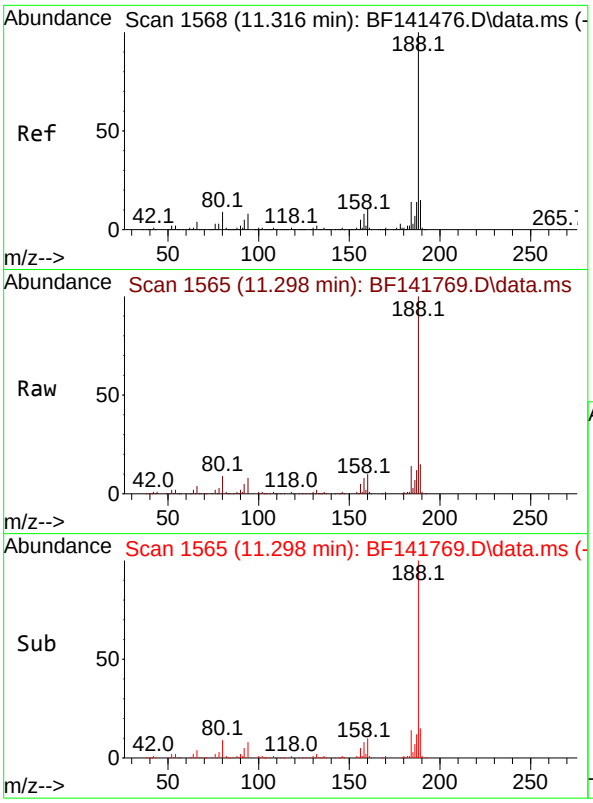


#45
2-Fluorobiphenyl
Concen: 77.286 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:172 Resp: 578204

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.7	43.1
170	23.3	18.9	28.3



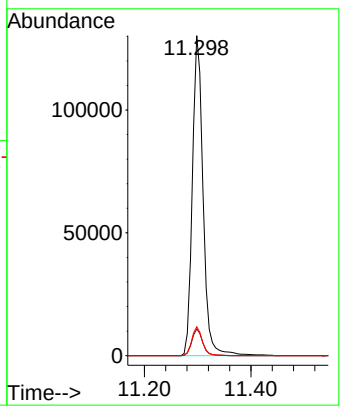


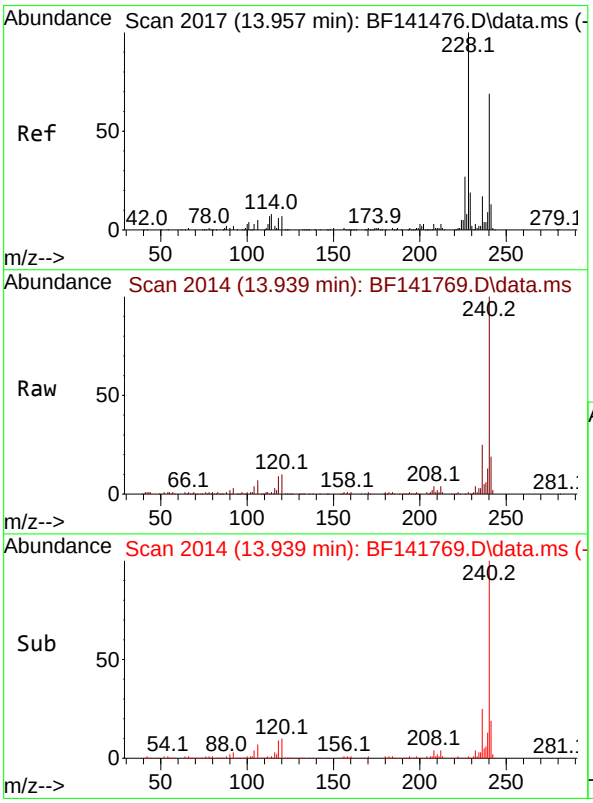
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:188 Resp: 181981

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.1	7.3	10.9

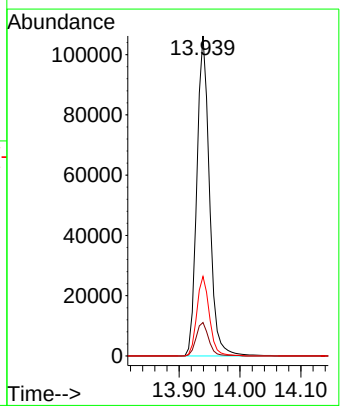


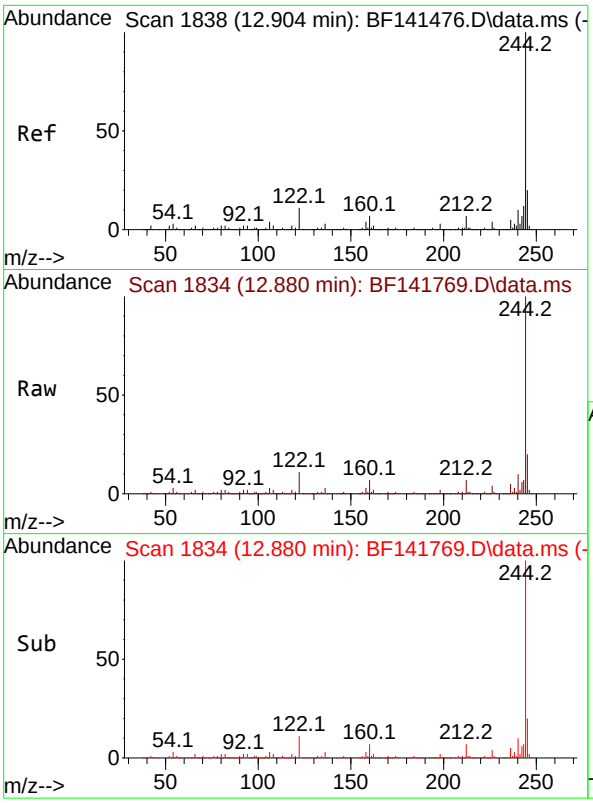


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:240 Resp: 152705

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.0	12.0
236	24.9	19.8	29.8



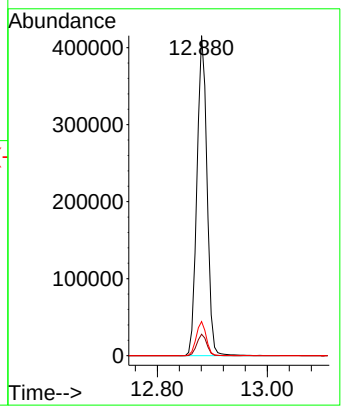


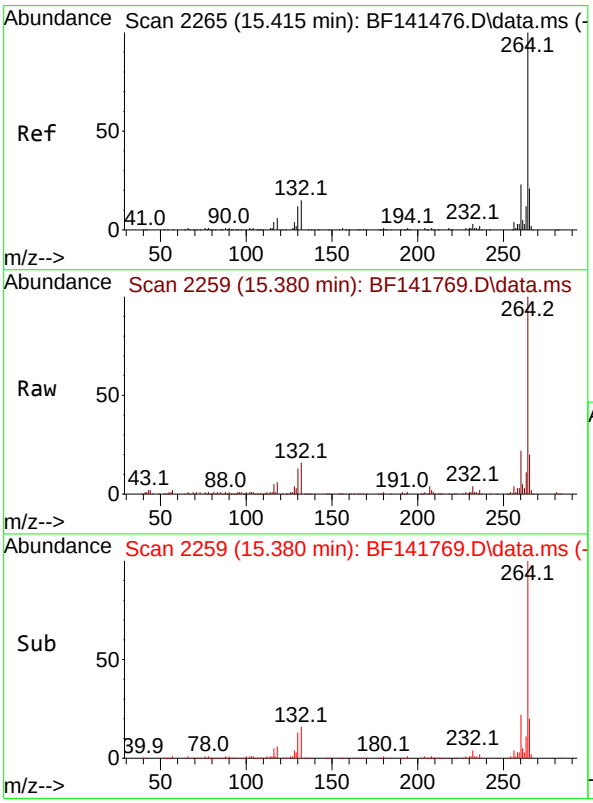
#79
Terphenyl-d14
Concen: 58.534 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:244 Resp: 529478

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.7	8.4	12.6

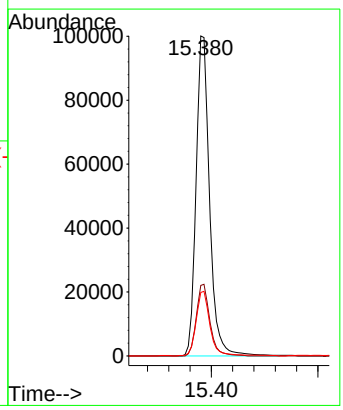




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.380 min Scan# 2259
Delta R.T. -0.035 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:264 Resp: 176440

Ion	Ratio	Lower	Upper
264	100		
260	22.0	18.6	28.0
265	19.9	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141769.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.293	28	34	52	rVB	20550	53463	3.20%	0.412%
2	2.540	69	76	92	rVB	414683	724892	43.36%	5.584%
3	3.216	186	191	220	rBV	37280	118915	7.11%	0.916%
4	4.175	346	354	371	rBV	334532	527025	31.52%	4.060%
5	5.404	558	563	587	rBV	986323	1464643	87.61%	11.283%
6	6.422	731	736	766	rBV	968118	1456506	87.12%	11.220%
7	6.781	792	797	805	rBV	299682	386466	23.12%	2.977%
8	7.345	887	893	906	rBV	645709	928964	55.57%	7.156%
9	7.628	931	941	957	rBV3	11951	38369	2.30%	0.296%
10	8.063	1010	1015	1041	rVB	321653	481091	28.78%	3.706%
11	8.787	1134	1138	1155	rBV	120219	179623	10.74%	1.384%
12	9.134	1192	1197	1208	rBV	1280300	1671850	100.00%	12.879%
13	9.216	1208	1211	1222	rVB	10864	19019	1.14%	0.147%
14	9.816	1307	1313	1327	rBV	333249	477546	28.56%	3.679%
15	10.528	1429	1434	1442	rBV	78466	107009	6.40%	0.824%
16	10.604	1442	1447	1462	rBV	531130	769859	46.05%	5.931%
17	10.851	1479	1489	1495	rBV4	27710	56107	3.36%	0.432%
18	11.151	1535	1540	1551	rBV	17440	30084	1.80%	0.232%
19	11.298	1560	1565	1579	rBV	317303	438056	26.20%	3.375%
20	11.828	1650	1655	1667	rBV2	56818	125203	7.49%	0.965%
21	12.180	1711	1715	1721	rVB	14217	18627	1.11%	0.143%
22	12.622	1785	1790	1797	rBV6	9084	21746	1.30%	0.168%
23	12.686	1797	1801	1807	rVB2	20730	29617	1.77%	0.228%
24	12.880	1829	1834	1845	rBV	1084082	1377952	82.42%	10.615%
25	13.157	1876	1881	1884	rBV	20583	26782	1.60%	0.206%
26	13.416	1921	1925	1928	rBV	14634	19654	1.18%	0.151%
27	13.592	1951	1955	1960	rVB	26004	34299	2.05%	0.264%
28	13.780	1982	1987	2004	rBV4	40646	137269	8.21%	1.057%
29	13.939	2009	2014	2021	rVV	286546	415698	24.86%	3.202%
30	14.004	2021	2025	2032	rVB	28187	44363	2.65%	0.342%
31	14.392	2087	2091	2097	rBV2	33174	54244	3.24%	0.418%
32	14.686	2136	2141	2149	rBV2	95243	153482	9.18%	1.182%
33	14.769	2150	2155	2162	rVB	52048	77876	4.66%	0.600%
34	15.174	2220	2224	2232	rVB3	14604	23937	1.43%	0.184%
35	15.380	2254	2259	2271	rBV	266404	471646	28.21%	3.633%
36	15.815	2330	2333	2339	rVB2	12471	18895	1.13%	0.146%

Sample Results: **BF141769.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 12980777

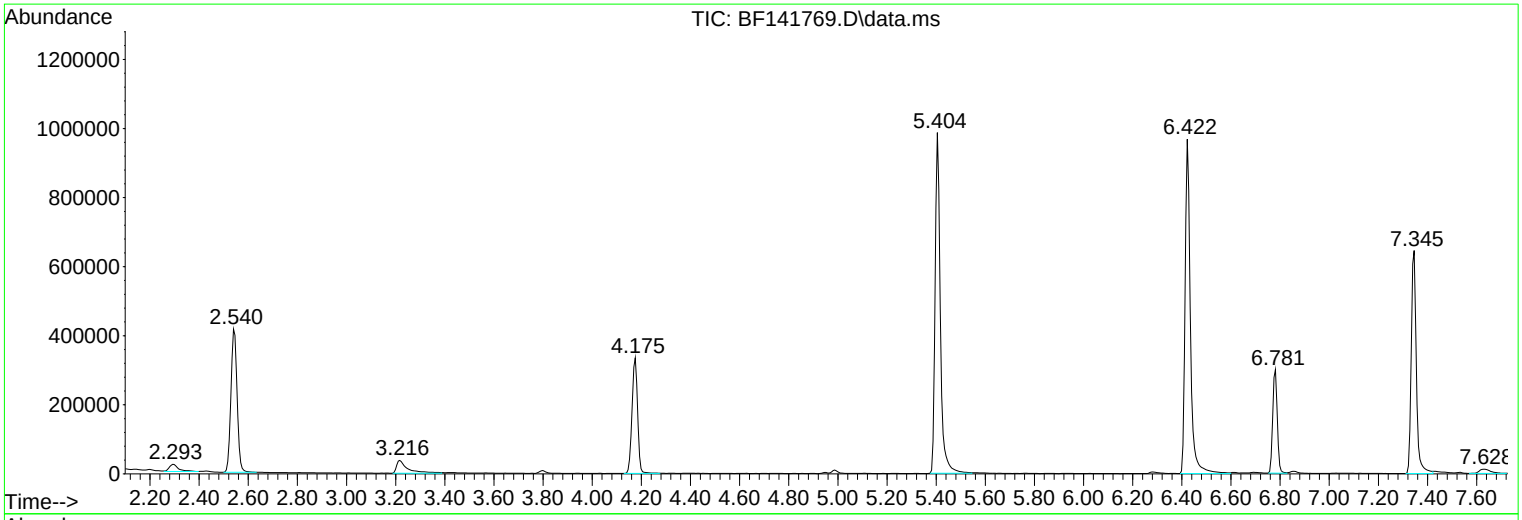
Sample Results: **BF141769.D**

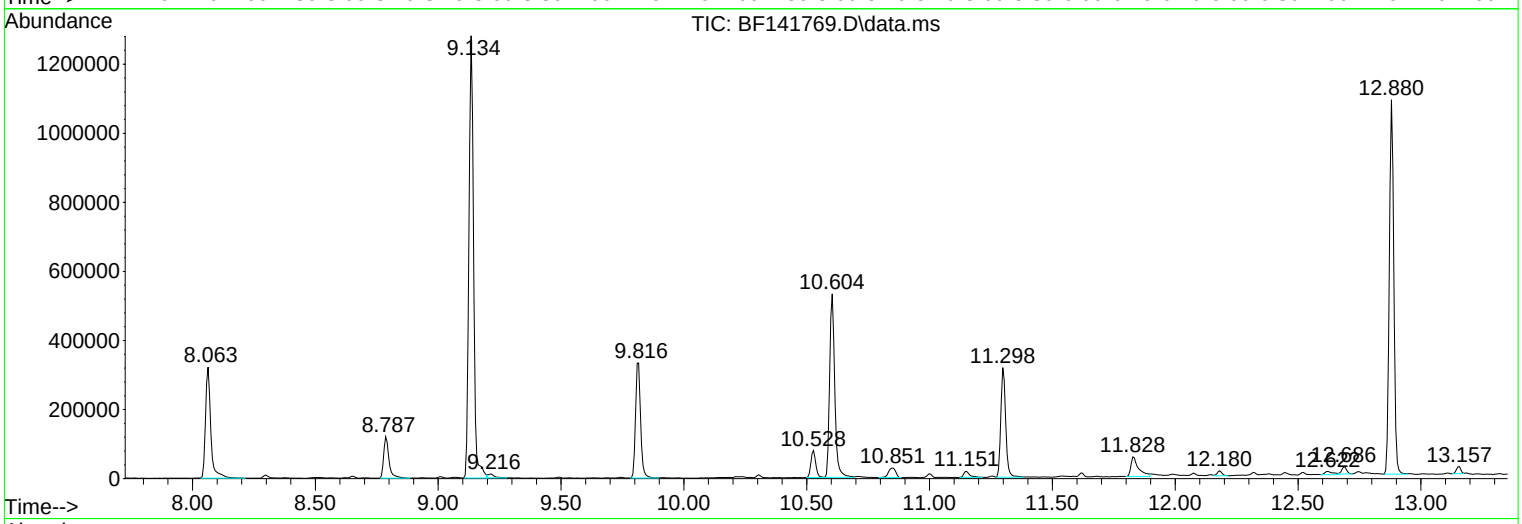
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

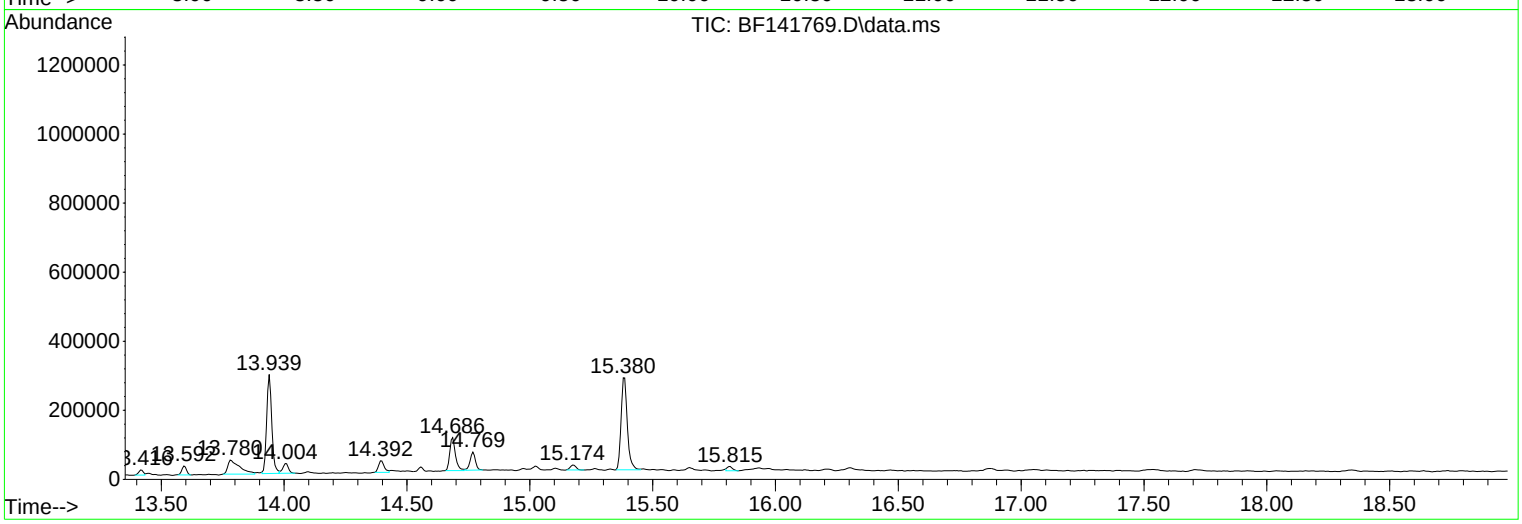
Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

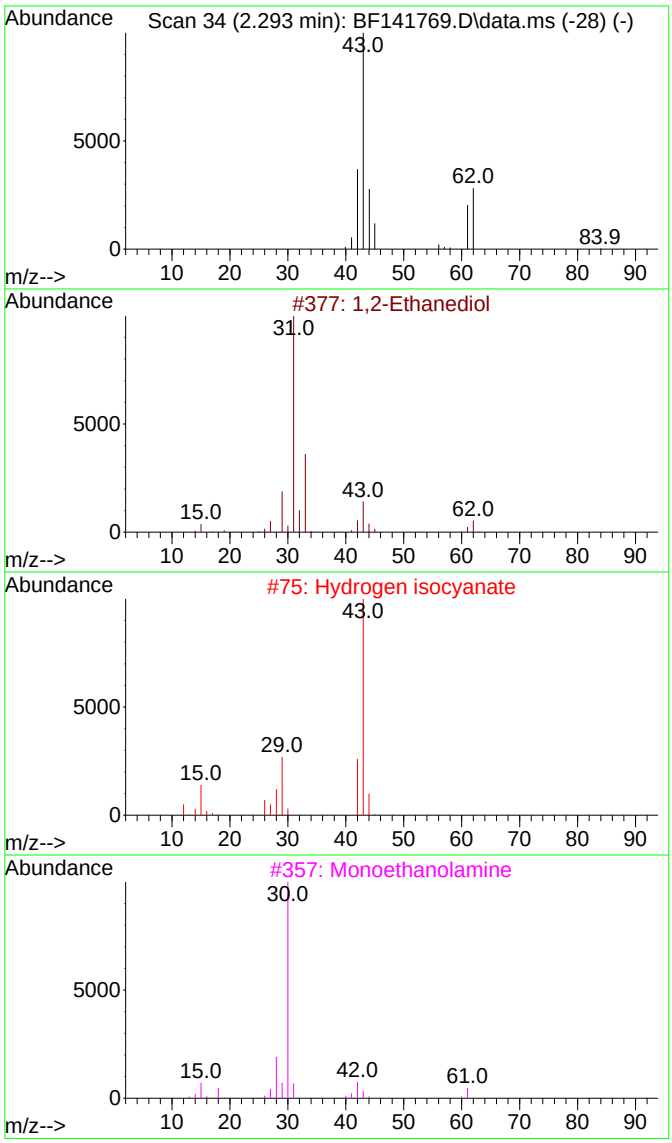
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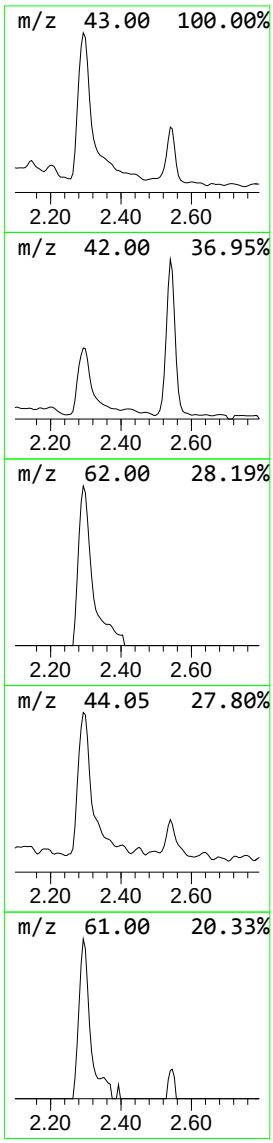
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Peak Number 1 unknown2.293 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.293	2.77 ng	53463	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Ethanediol	62	C2H6O2	000107-21-1	7
2	Hydrogen isocyanate	43	CHNO	000075-13-8	3
3	Monoethanolamine	61	C2H7NO	000141-43-5	3
4	Peroxide, dimethyl	62	C2H6O2	000690-02-8	3
5	n-Propyl fluoride	62	C3H7F	000460-13-9	3





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

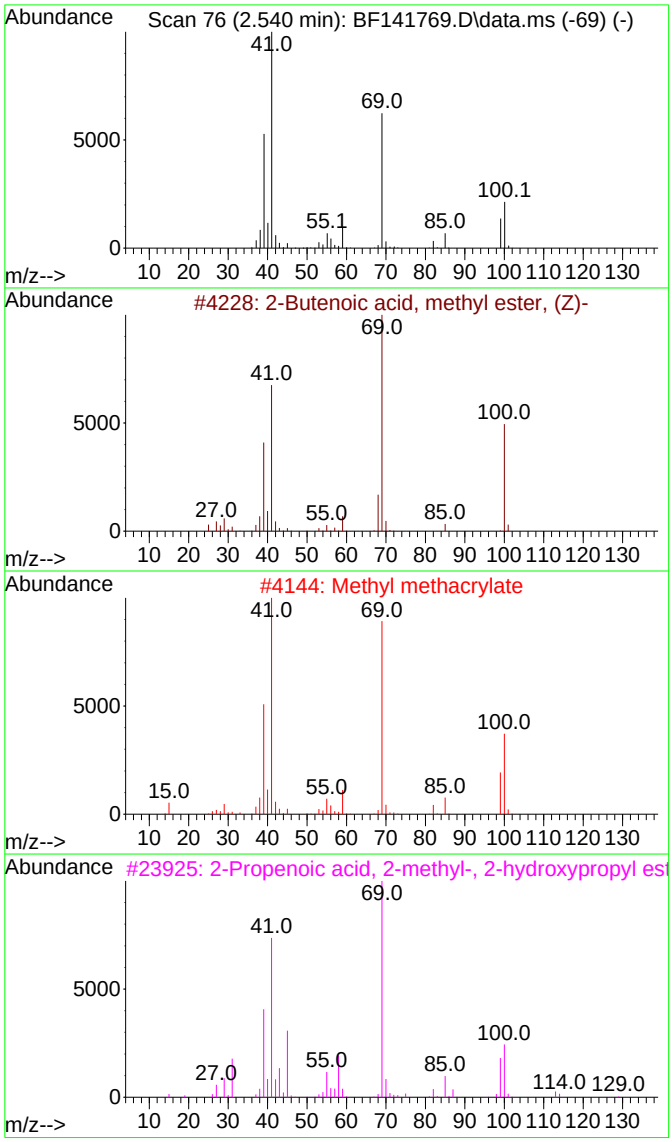
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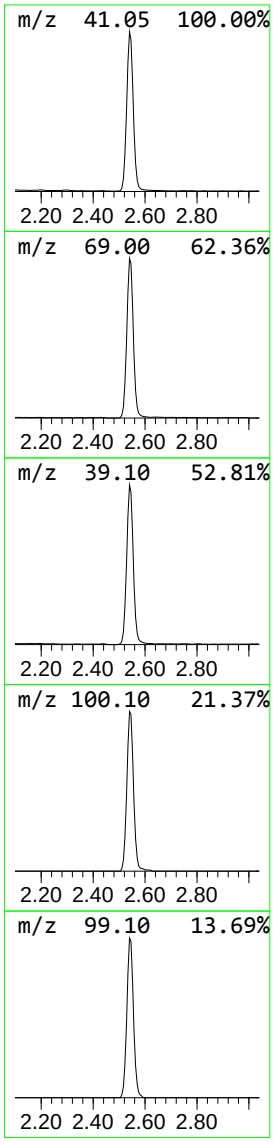
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****
Peak Number 2 2-Butenoic acid, methyl est... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.540	37.51 ng	724892	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butenoic acid, methyl ester, (Z)-	100	C5H8O2	004358-59-2	80
2	Methyl methacrylate	100	C5H8O2	000080-62-6	64
3	2-Propenoic acid, 2-methyl-, 2-h...	144	C7H12O3	000923-26-2	56
4	2-Butenoic acid, methyl ester, (E)-	100	C5H8O2	000623-43-8	47
5	2-Propenoic acid, 2-methyl-, 2-p...	124	C7H8O2	013861-22-8	32





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
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Instrument :
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ClientSampleId :
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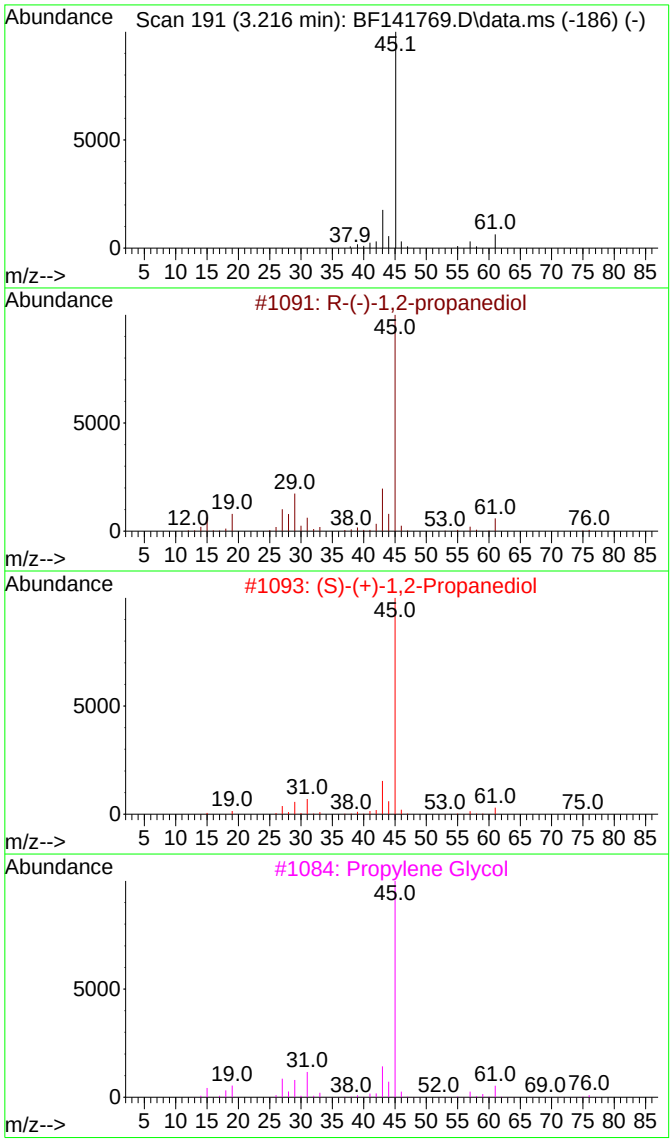
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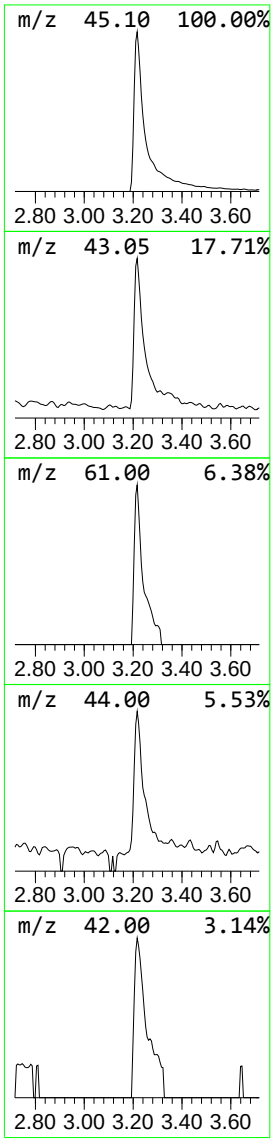
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Peak Number 3 unknown3.216 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.216	6.15 ng	118915	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	43
2	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	9
3	Propylene Glycol	76	C3H8O2	000057-55-6	9
4	Propanoic acid, 2-hydroxy-, meth...	104	C4H8O3	000547-64-8	9
5	L-Lactic acid	90	C3H6O3	000079-33-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
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Misc :
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ClientSampleId :
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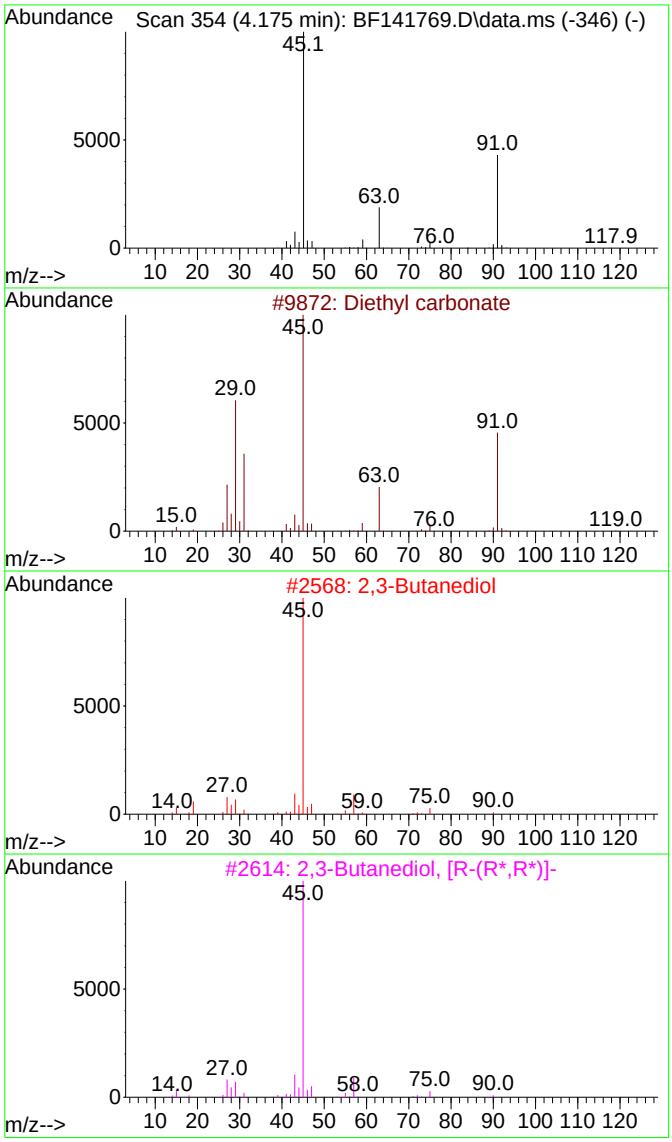
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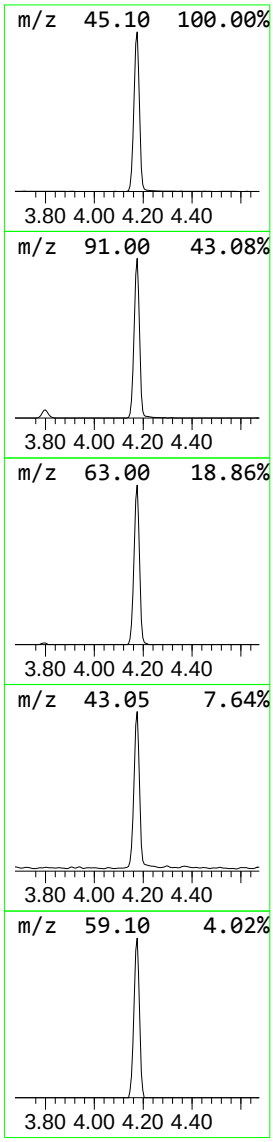
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Peak Number 4 Diethyl carbonate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.175	27.27 ng	527025	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	83
2	2,3-Butanediol	90	C4H10O2	000513-85-9	36
3	2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	9
4	Diethyl pyrocarbonate	162	C6H10O5	001609-47-8	9
5	Butane, 1-methoxy-	88	C5H12O	000628-28-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
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Sample : Q1415-01
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Instrument :
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ClientSampleId :
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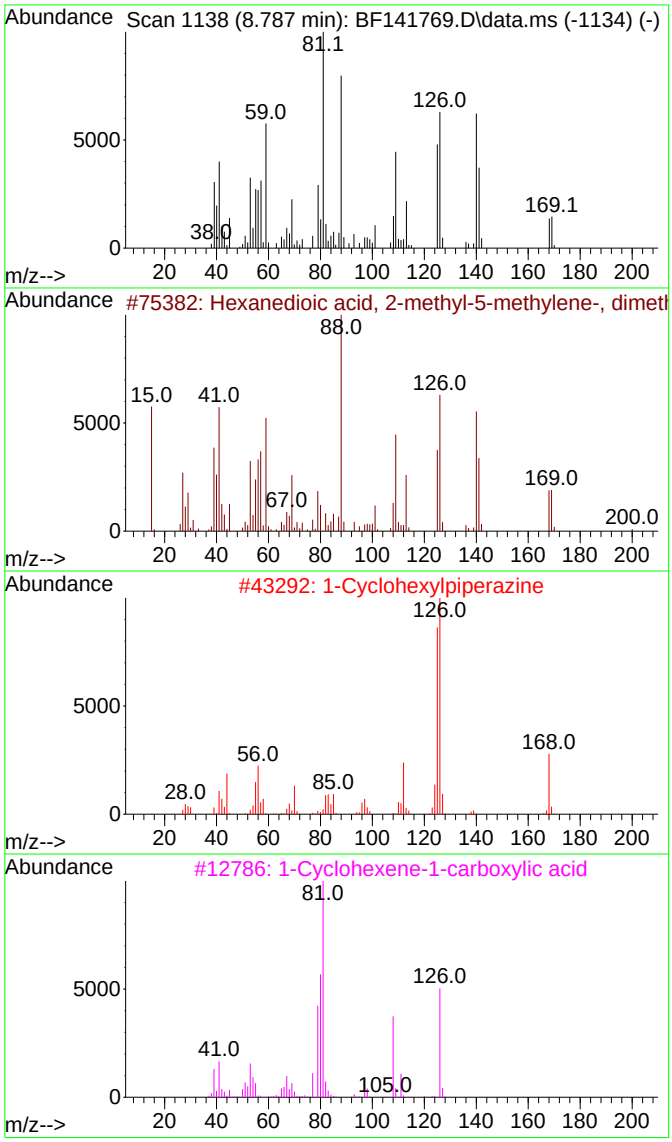
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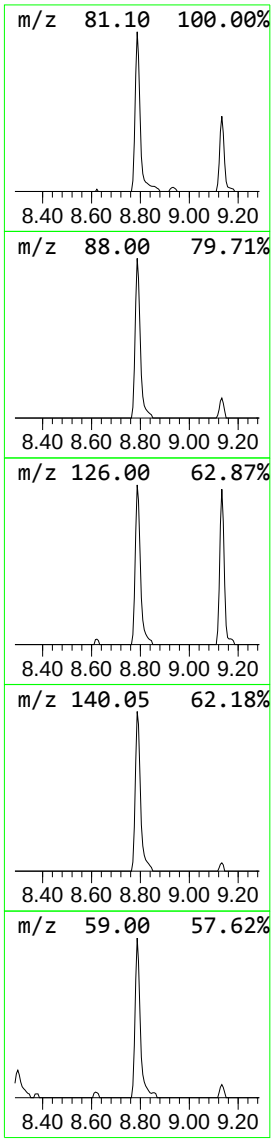
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TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Hexanedioic acid, 2-methyl-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.787	7.47 ng	179623	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, 2-methyl-5-met...	200	C10H16O4	004513-62-6	58
2	1-Cyclohexylpiperazine	168	C10H20N2	1000484-48-8	15
3	1-Cyclohexene-1-carboxylic acid	126	C7H10O2	000636-82-8	14
4	1-Chlorosulfonyl-3-methyl-1-azas...	251	C9H14ClNO3S	016933-89-4	14
5	1-(4-Methylhexahydrocyclopenta[b...	182	C11H18O2	1000186-82-3	14





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
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Instrument :
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ClientSampleId :
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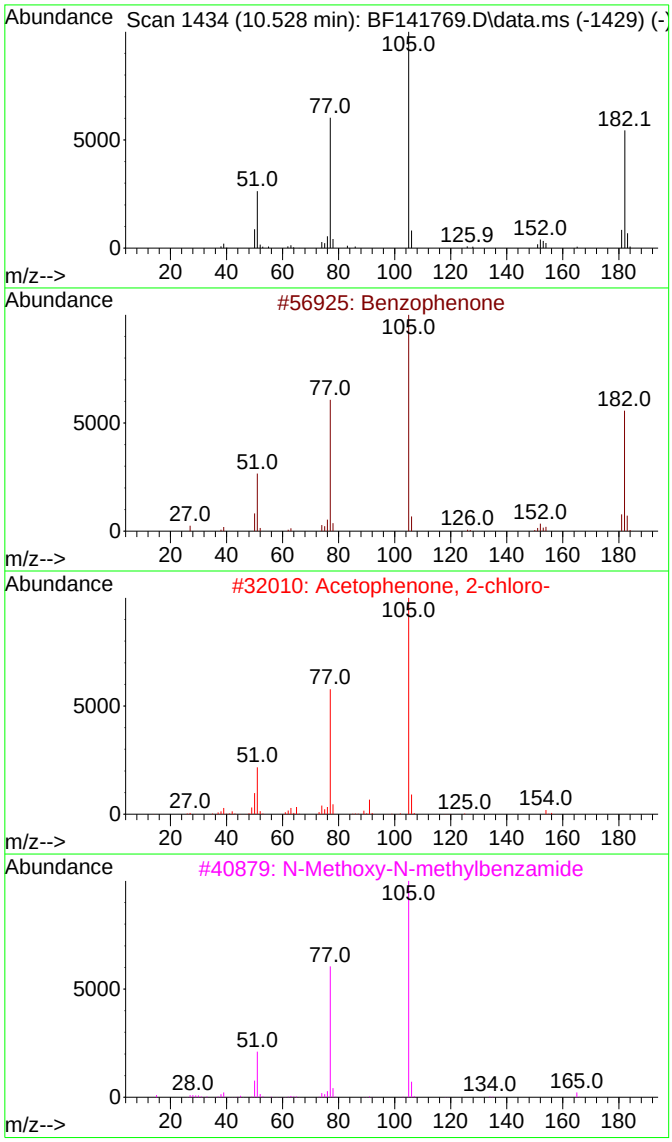
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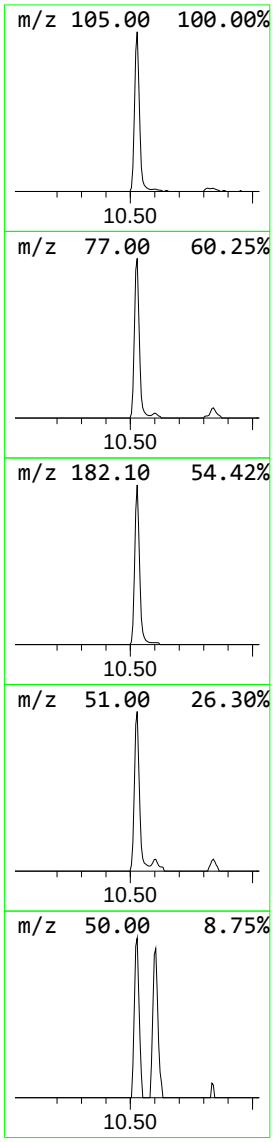
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Peak Number 6 Benzophenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	4.48 ng	107009	Acenaphthene-d10	9.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
4	Benzoyl isothiocyanate	163	C8H5NOS	000532-55-8	47
5	Benzeneacetic acid, .alpha.-oxo-...	178	C10H10O3	001603-79-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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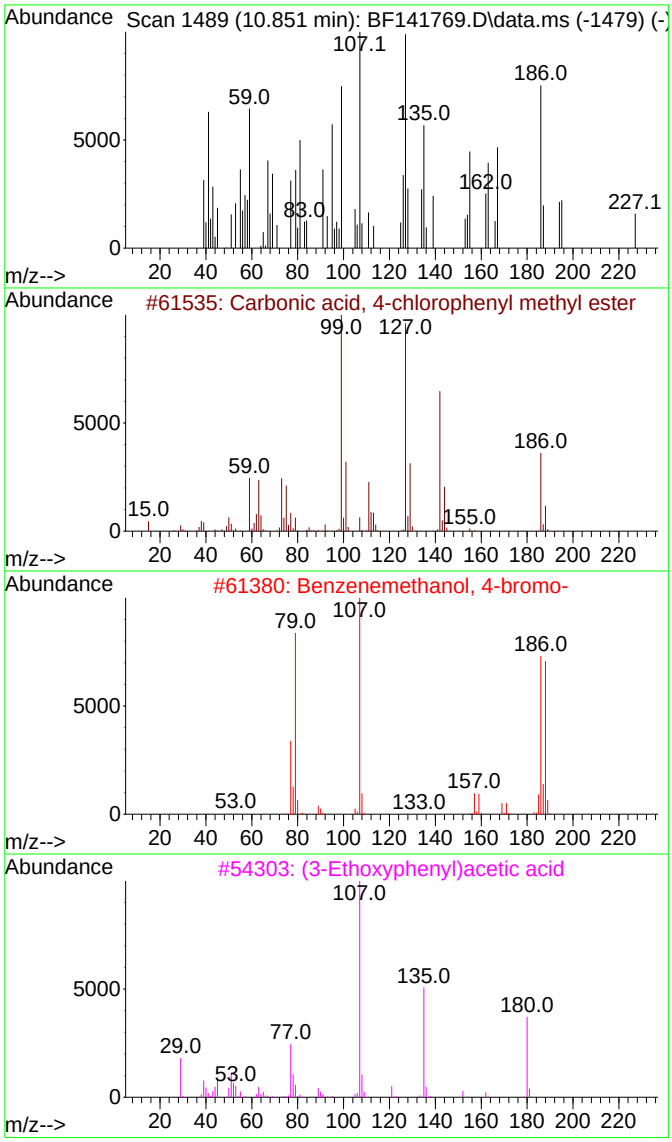
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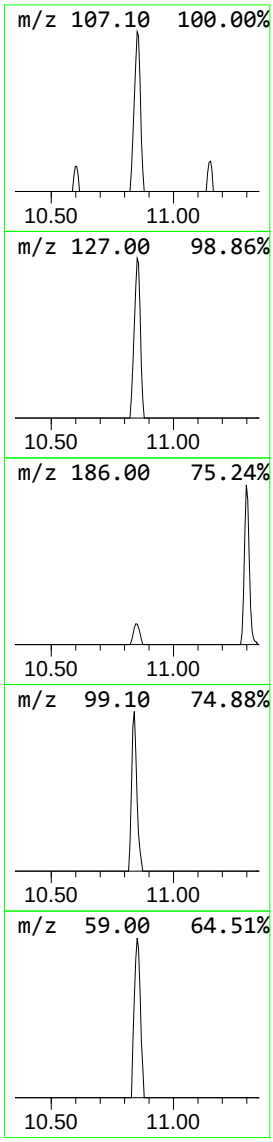
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Peak Number 7 unknown10.851 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.851	2.56 ng	56107	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, 4-chlorophenyl me...	186	C8H7ClO3	024260-28-4	35
2	Benzenemethanol, 4-bromo-	186	C7H7BrO	000873-75-6	10
3	(3-Ethoxyphenyl)acetic acid	180	C10H12O3	072775-83-8	10
4	Ethyl propylphosphonofluoridate	154	C5H12FO2P	1000298-31-3	10
5	1,3-Cyclopentadiene, 1,3-bis(1-m...	150	C11H18	123278-27-3	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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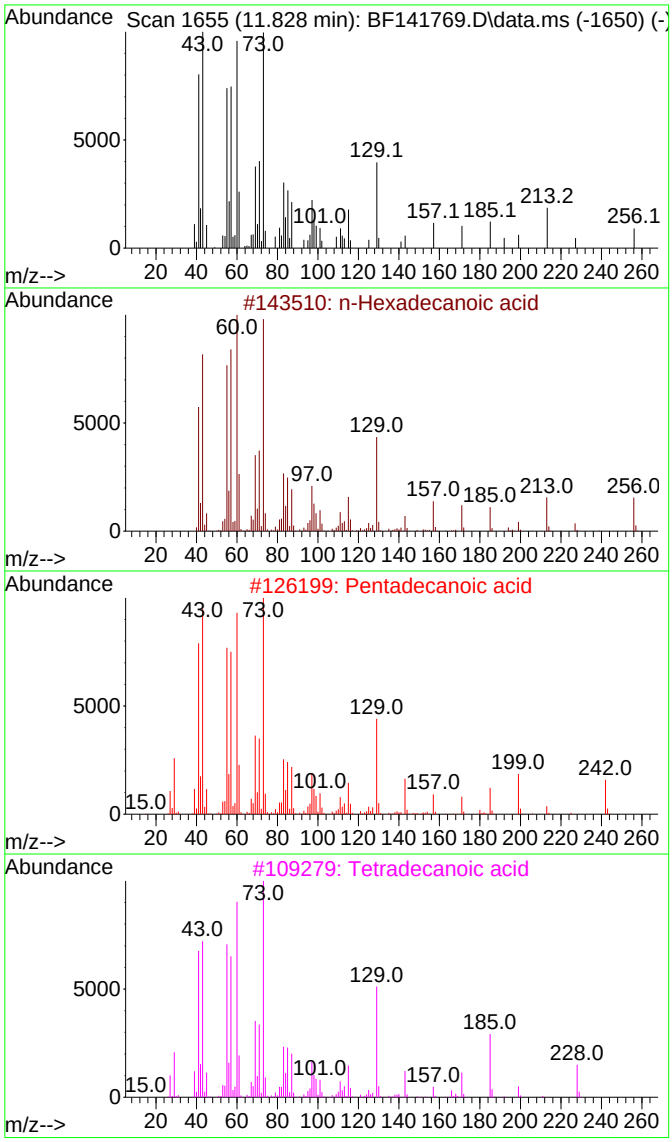
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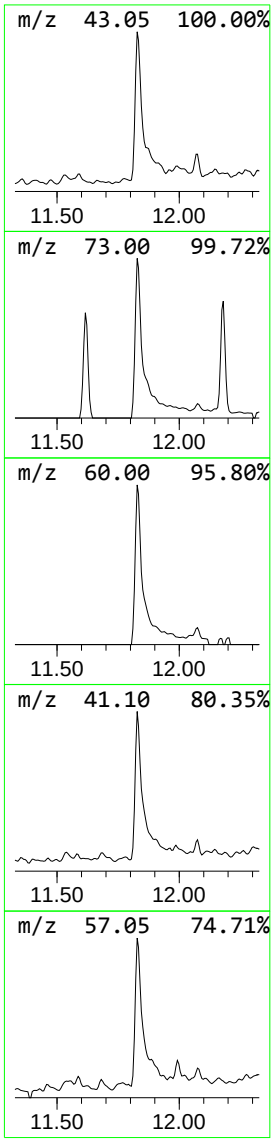
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Peak Number 8 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.828	5.72 ng	125203	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4	Tridecanoic acid	214	C13H26O2	000638-53-9	86
5	Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	11





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
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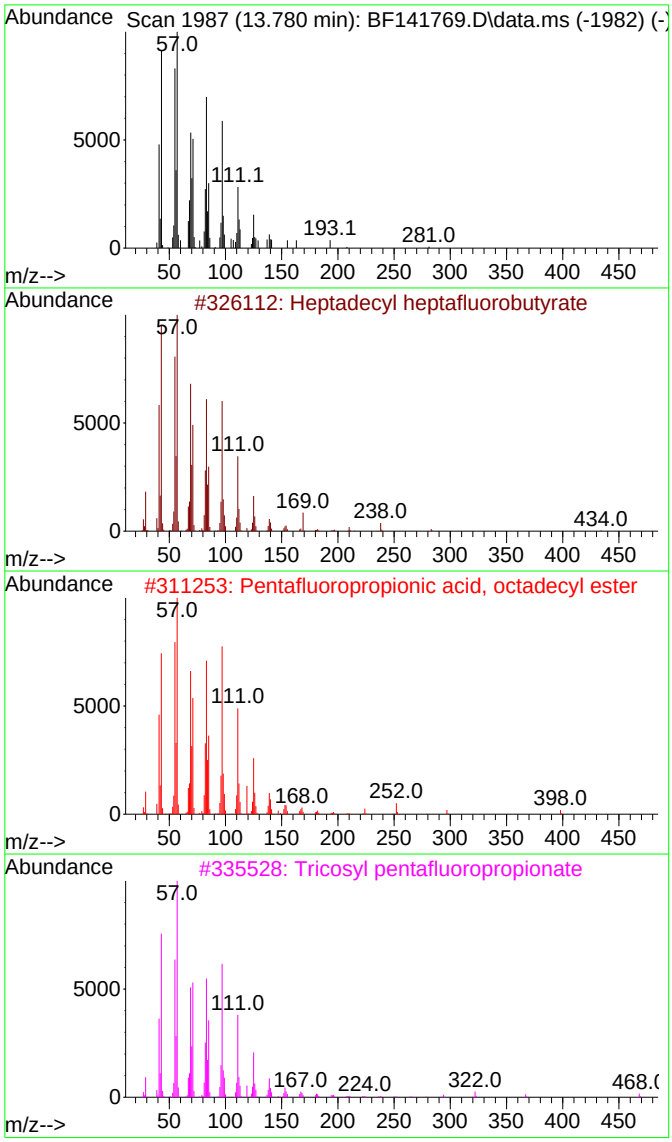
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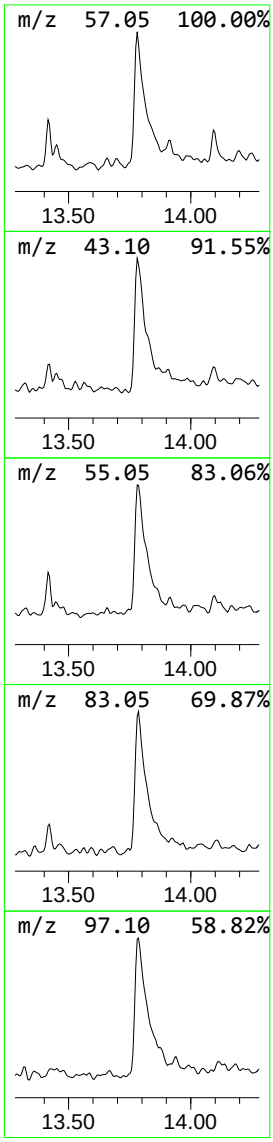
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****
Peak Number 9 Heptadecyl heptafluorobutyrate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.780	6.60 ng	137269	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
2	Pentafluoropropionic acid, octad...	416	C21H37F5O2	959261-25-7	91
3	Tricosyl pentafluoropropionate	486	C26H47F5O2	1000351-81-0	91
4	Docosyl pentafluoropropionate	472	C25H45F5O2	1000351-80-9	91
5	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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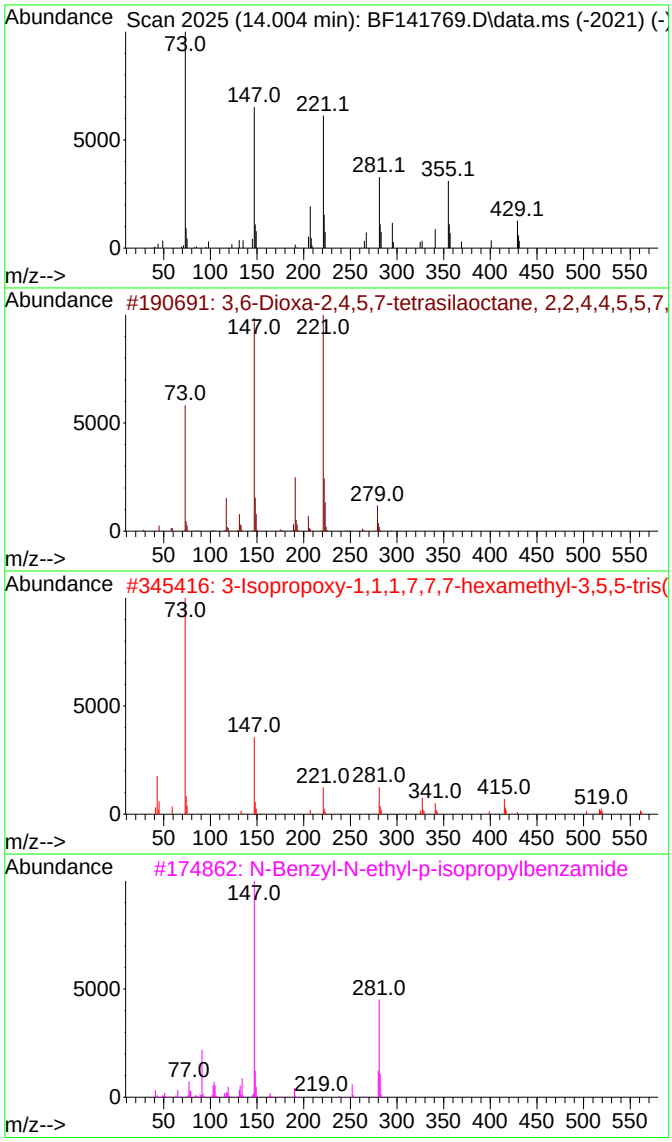
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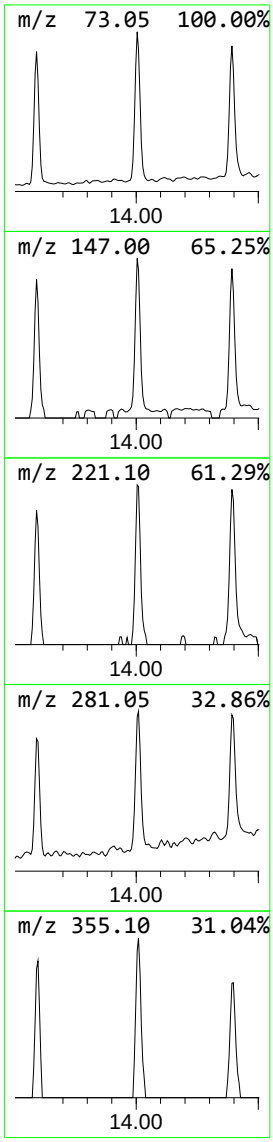
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Peak Number 10 unknown14.004 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.004	2.13 ng	44363	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	35
2	3-Isopropoxy-1,1,1,7,7,7-hexamet...	576	C18H52O7Si7	071579-69-6	32
3	N-Benzyl-N-ethyl-p-isopropylbenz...	281	C19H23NO	015089-22-2	27
4	Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	27
5	Mercaptoacetic acid, 2TMS deriva...	236	C8H20O2SSi2	006398-62-5	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
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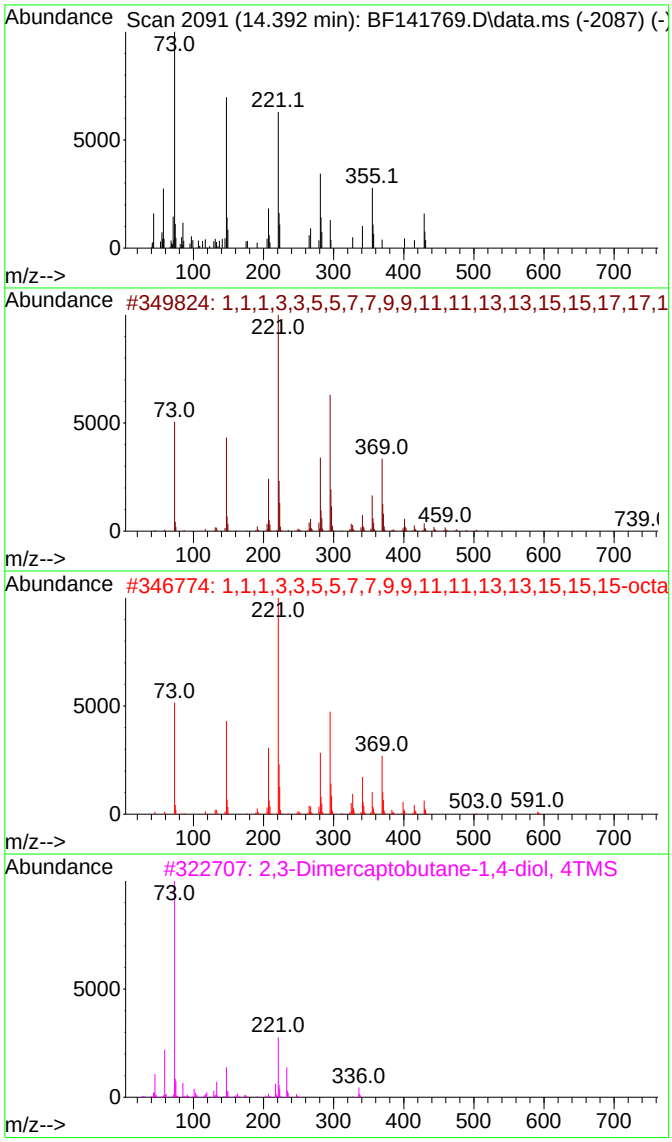
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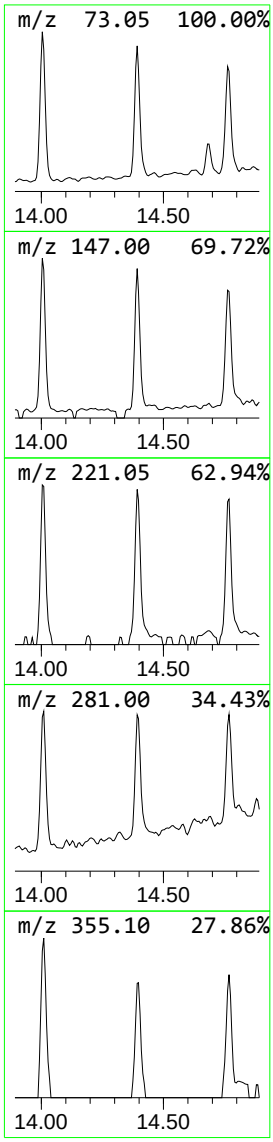
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Peak Number 11 unknown14.392 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.392	2.61 ng	54244	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,1,3,3,5,5,7,7,9,9,11,11,13,1...	754	C22H66O9Si10	000556-70-7	42
2	1,1,1,3,3,5,5,7,7,9,9,11,11,13,1...	606	C18H54O7Si8	000556-69-4	40
3	2,3-Dimercaptobutane-1,4-diol, 4TMS	442	C16H42O2S2Si4	959295-06-8	38
4	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	32
5	Mercaptoacetic acid, 2TMS deriva...	236	C8H20O2SSi2	006398-62-5	32





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
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ALS Vial : 16 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

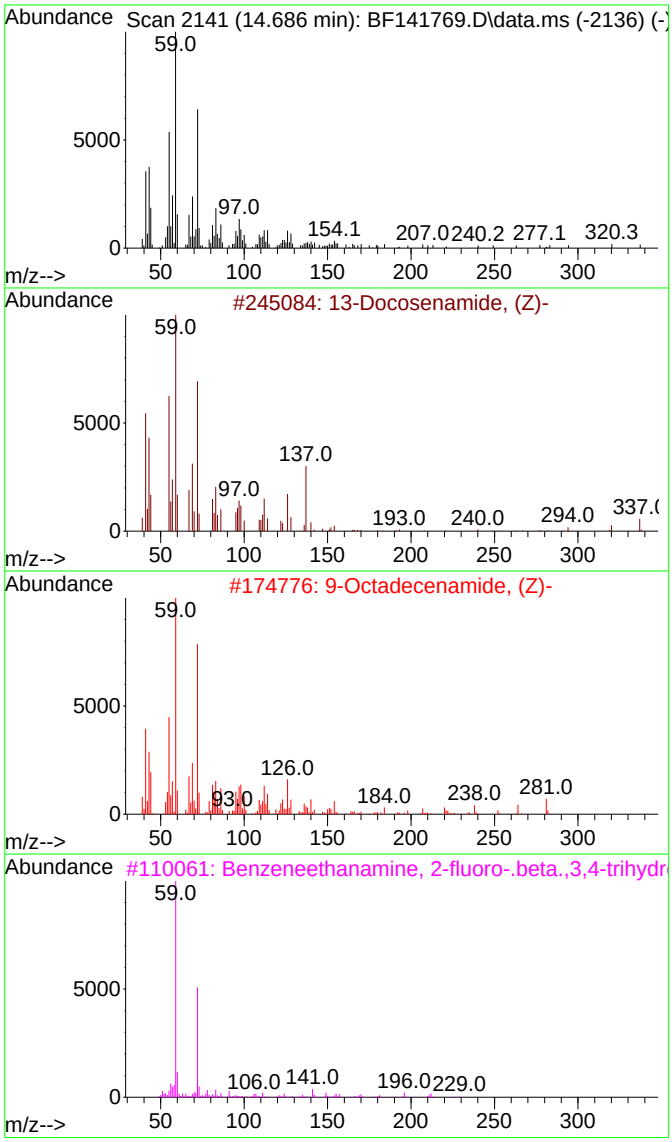
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TIC Integration Parameters: LSCINT.P

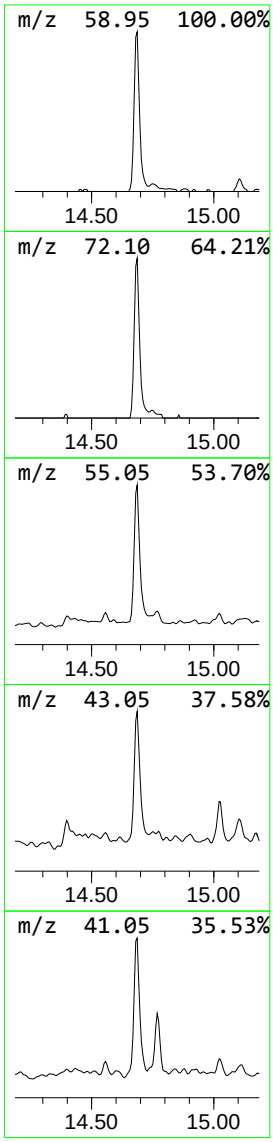
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Peak Number 12 13-Docosenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.686	6.51 ng	153482	Perylene-d12	15.380

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	93
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	91
3	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	64
4	Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	64
5	Palmitoleamide	253	C16H31NO	106010-22-4	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

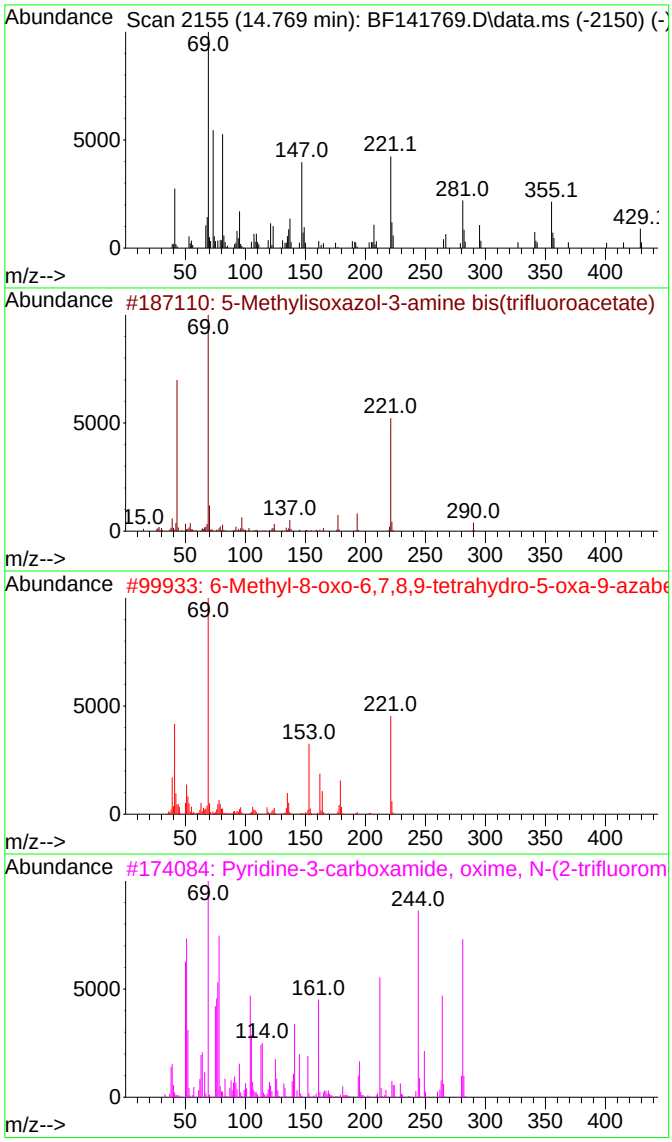
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TIC Integration Parameters: LSCINT.P

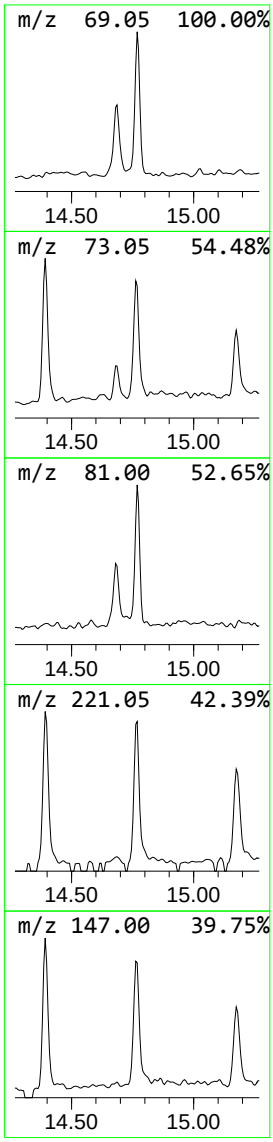
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Peak Number 13 unknown14.769 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	3.30 ng	77876	Perylene-d12	15.380

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Methylisoxazol-3-amine bis(tri...	290	C8H4F6N2O3	1000373-35-6	37
2	6-Methyl-8-oxo-6,7,8,9-tetrahydr...	221	C11H11NO4	134076-69-0	37
3	Pyridine-3-carboxamide, oxime, N...	281	C13H10F3N3O	288246-53-7	27
4	1-Bromo-11-iodoundecane	360	C11H22BrI	139123-69-6	27
5	2-Amino-4,6-dihydroxypyrimidine,...	415	C10H2F9N3O5	1000375-76-1	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown2.293	2.293	2.8	ng	53463	1	6.781	386466	20.0
2-Butenoic acid...	2.540	37.5	ng	724892	1	6.781	386466	20.0
unknown3.216	3.216	6.2	ng	118915	1	6.781	386466	20.0
Diethyl carbonate	4.175	27.3	ng	527025	1	6.781	386466	20.0
Hexanedioic aci...	8.787	7.5	ng	179623	2	8.063	481091	20.0
Benzophenone	10.528	4.5	ng	107009	3	9.816	477546	20.0
unknown10.851	10.851	2.6	ng	56107	4	11.298	438056	20.0
n-Hexadecanoic ...	11.828	5.7	ng	125203	4	11.298	438056	20.0
Heptadecyl hept...	13.780	6.6	ng	137269	5	13.939	415698	20.0
unknown14.004	14.004	2.1	ng	44363	5	13.939	415698	20.0
unknown14.392	14.392	2.6	ng	54244	5	13.939	415698	20.0
13-Docosenamide...	14.686	6.5	ng	153482	6	15.380	471646	20.0
unknown14.769	14.769	3.3	ng	77876	6	15.380	471646	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Time: Feb 25 17:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

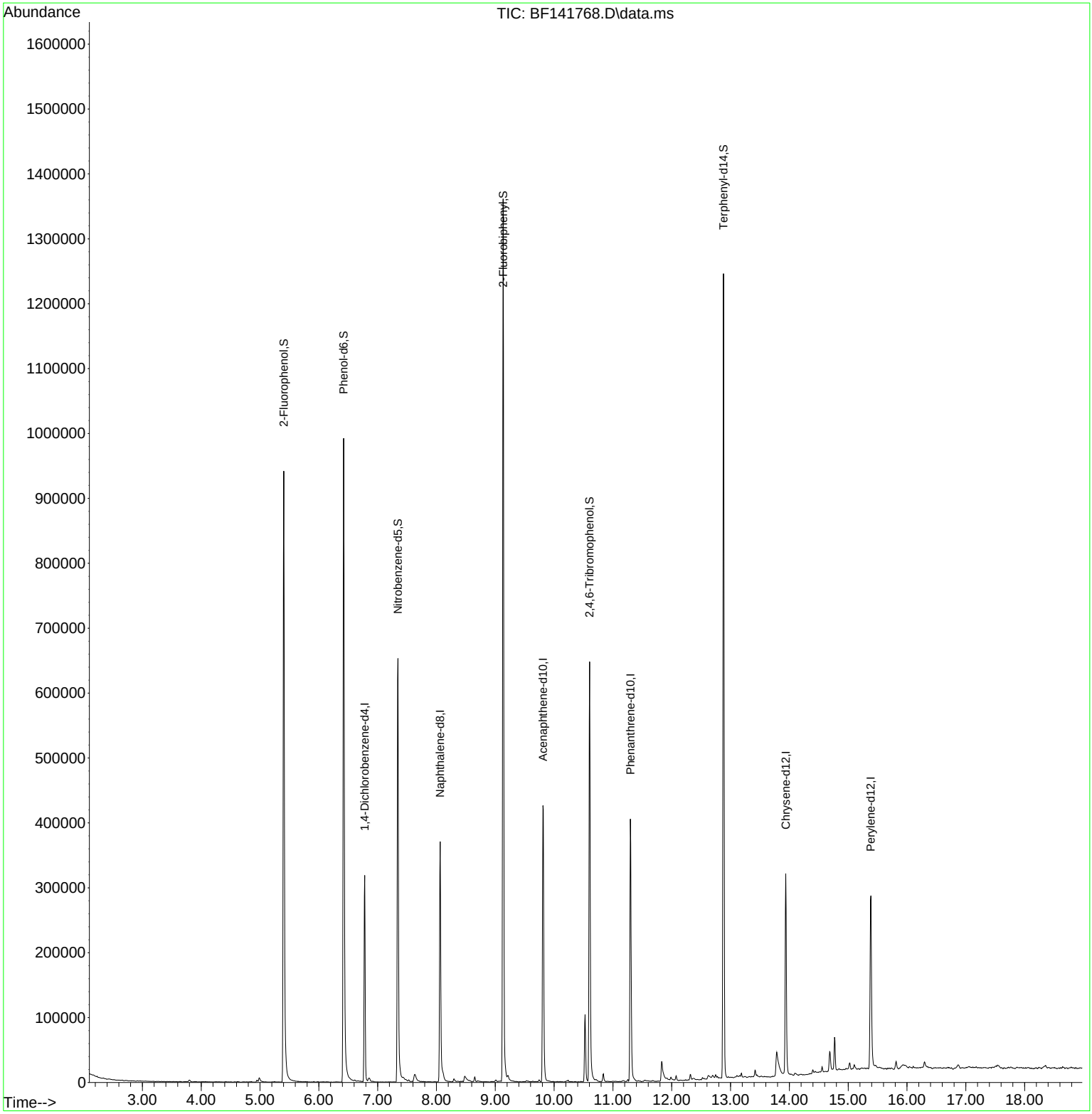
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	68668	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	275032	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	146934	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	243302	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	170277	20.000	ng	-0.02
86) Perylene-d12	15.386	264	176972	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	401011	91.554	ng	0.00
7) Phenol-d6	6.422	99	499893	90.298	ng	-0.02
23) Nitrobenzene-d5	7.345	82	326302	61.881	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	117690	79.735	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	624642	65.495	ng	-0.02
79) Terphenyl-d14	12.880	244	613407	60.815	ng	-0.02
Target Compounds						Qvalue

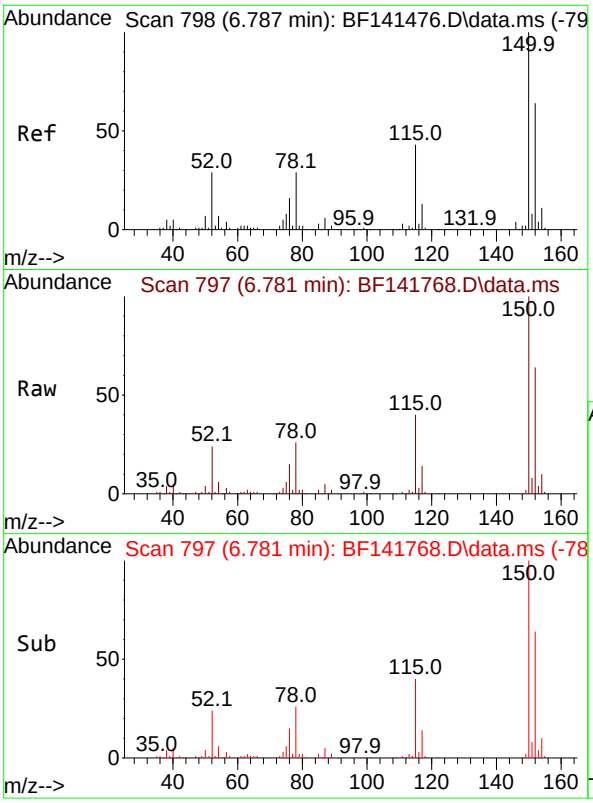
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Time: Feb 25 17:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



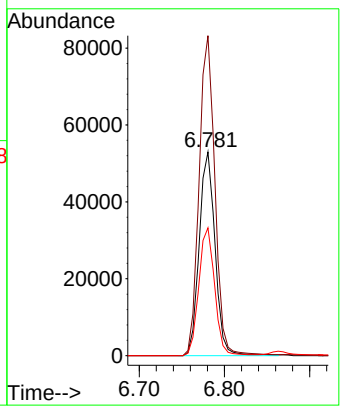


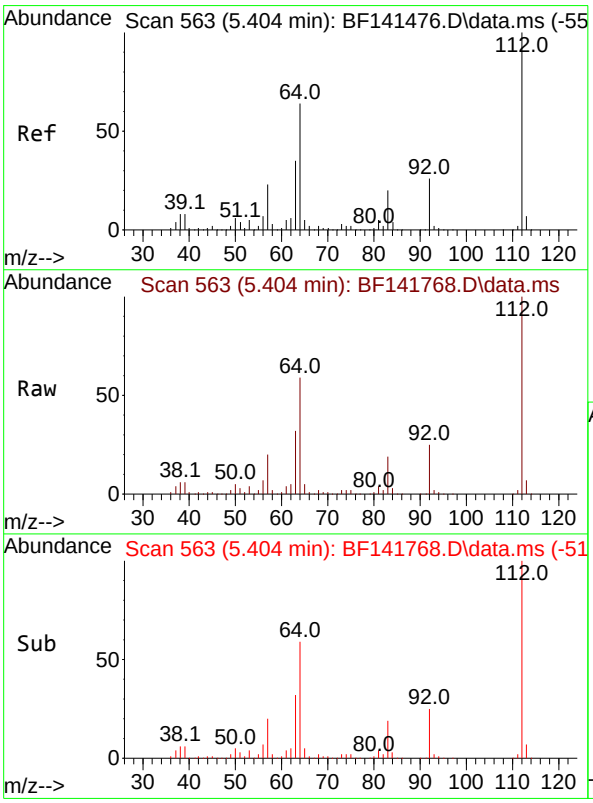
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:152 Resp: 68668

Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.0	187.4
115	62.8	53.6	80.4

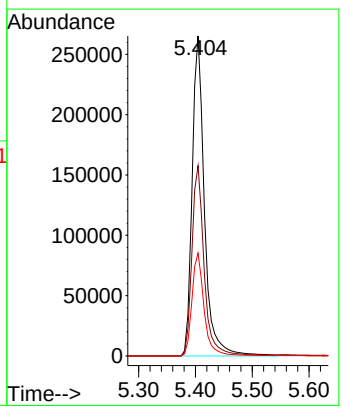


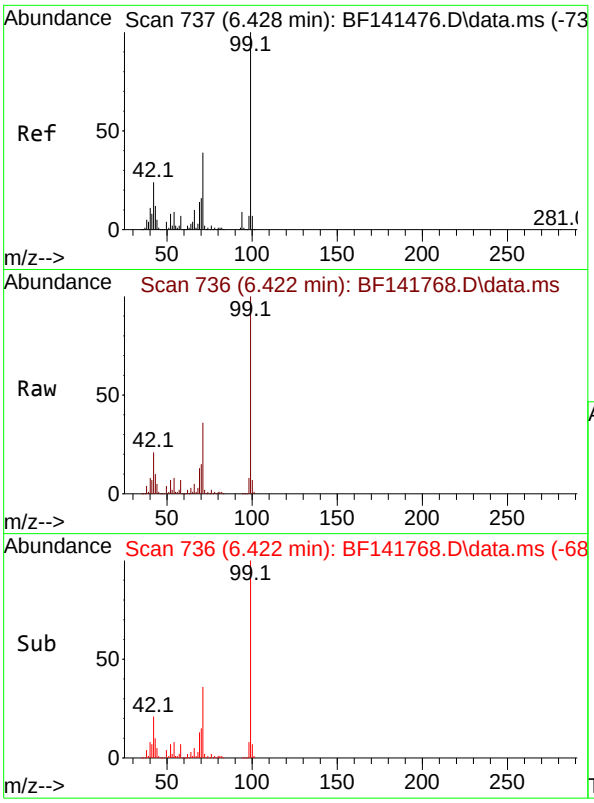


#5
2-Fluorophenol
Concen: 91.554 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:112 Resp: 401011

Ion	Ratio	Lower	Upper
112	100		
64	59.4	51.1	76.7
63	32.2	28.4	42.6



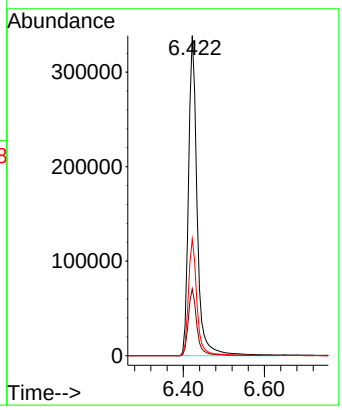


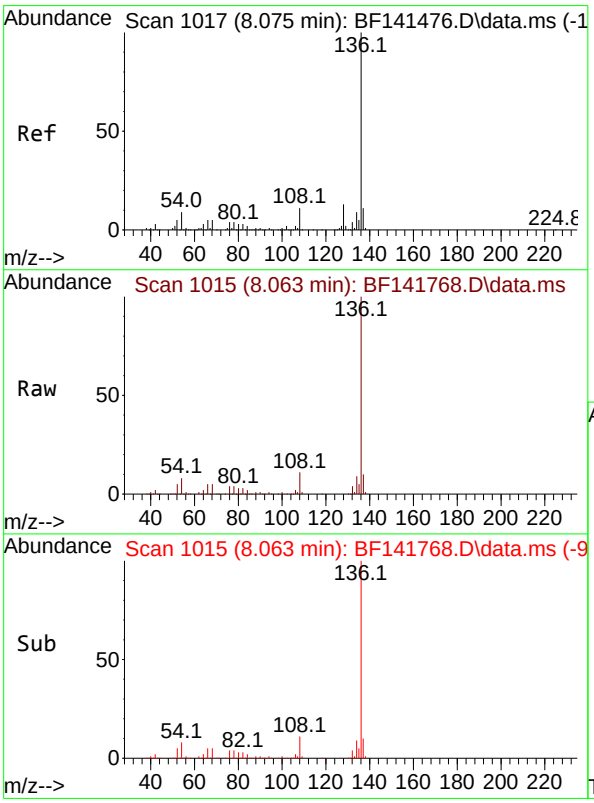
#7
Phenol-d6
Concen: 90.298 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion: 99 Resp: 499893

Ion	Ratio	Lower	Upper
99	100		
42	20.9	19.1	28.7
71	36.5	31.1	46.7

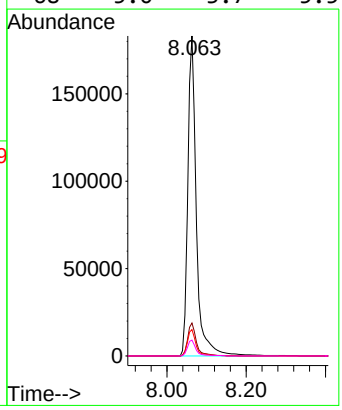


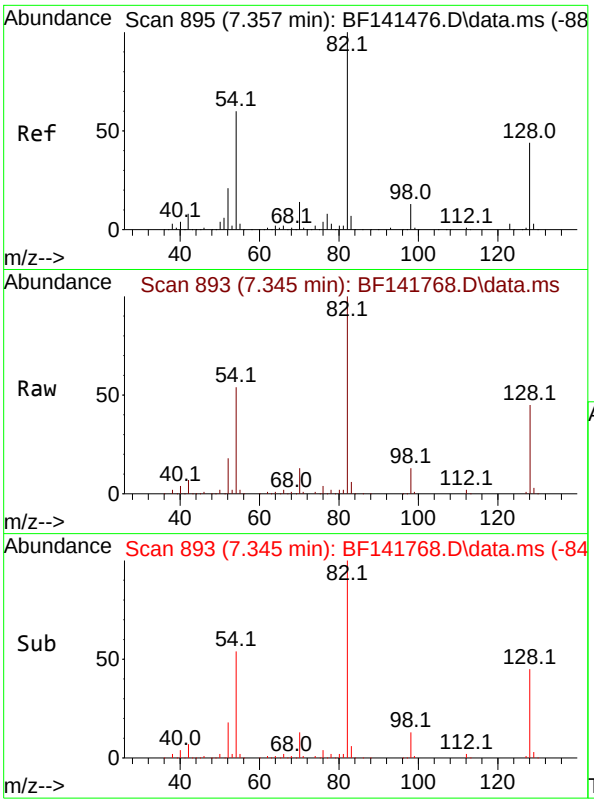


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:136 Resp: 275032

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.6	13.0
54	8.2	7.2	10.8
68	5.0	3.7	5.5



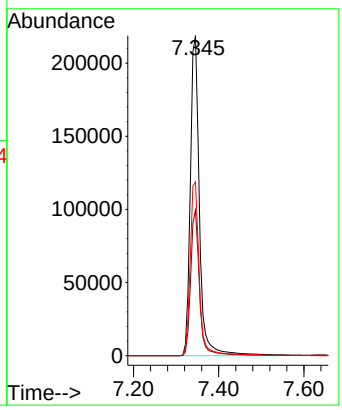


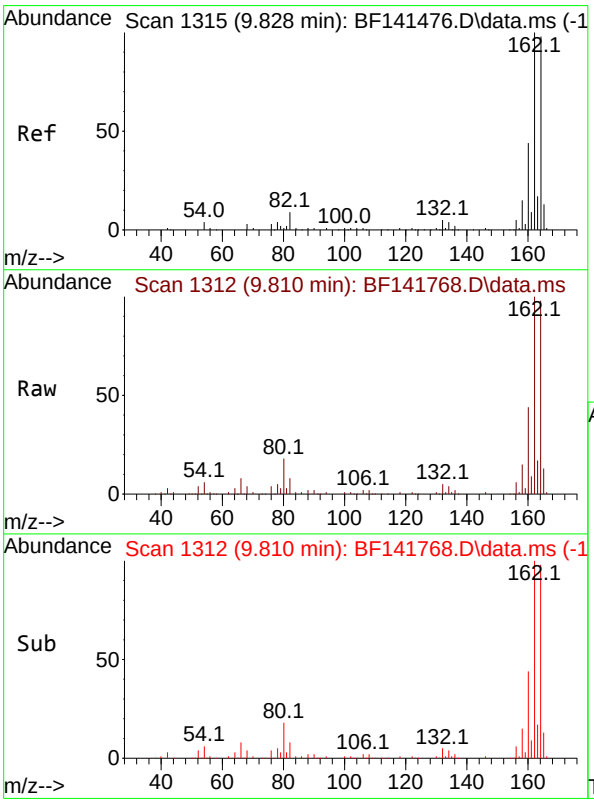
#23
Nitrobenzene-d5
Concen: 61.881 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion: 82 Resp: 326302

Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.8	52.2
54	54.3	48.2	72.4

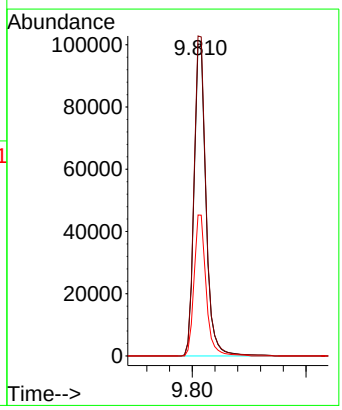


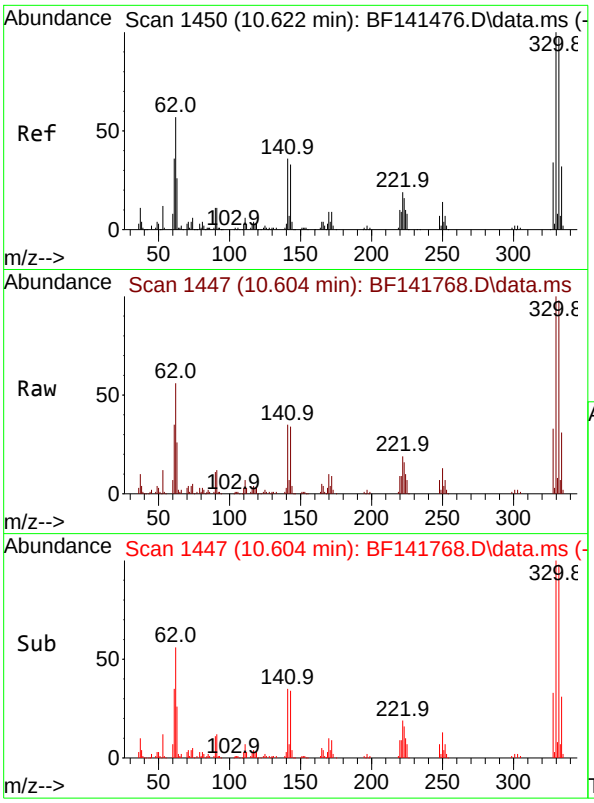


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:164 Resp: 146934

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	45.2	35.9	53.9



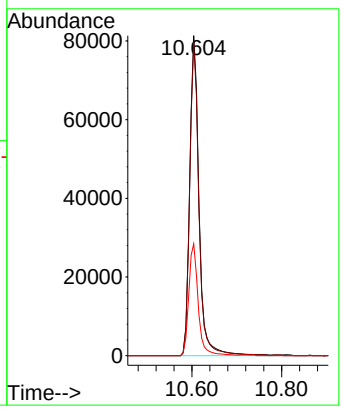


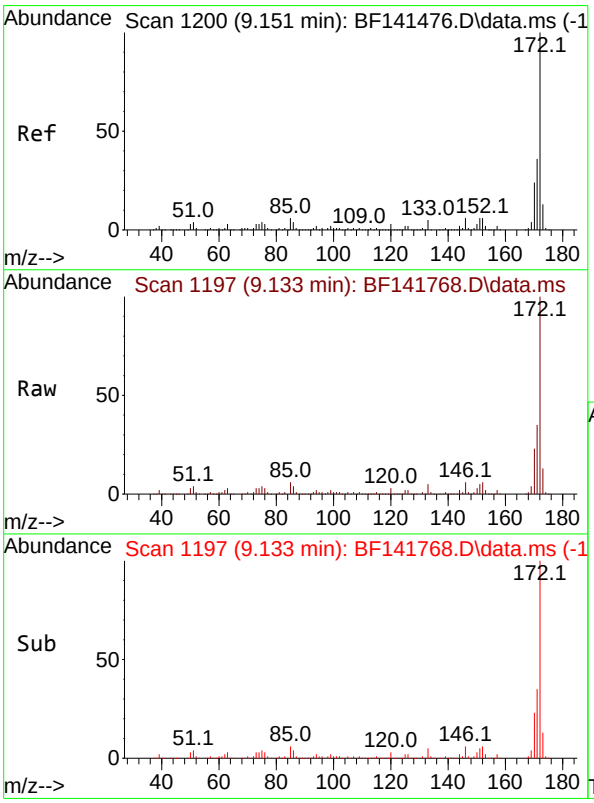
#42
2,4,6-Tribromophenol
Concen: 79.735 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:330 Resp: 117690

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.5	117.7
141	35.2	31.0	46.4

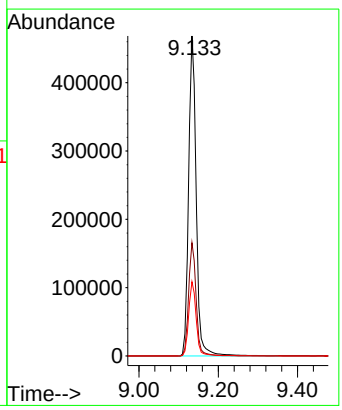


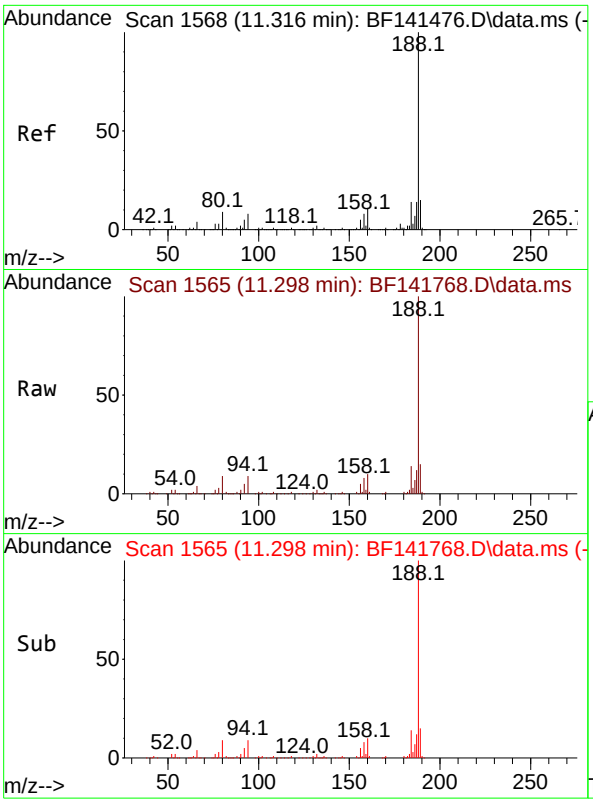


#45
2-Fluorobiphenyl
Concen: 65.495 ng
RT: 9.133 min Scan# 1197
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:172 Resp: 624642

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.7	43.1
170	23.2	18.9	28.3



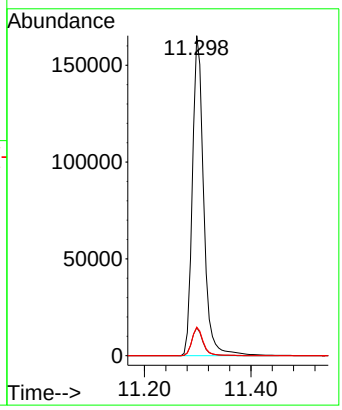


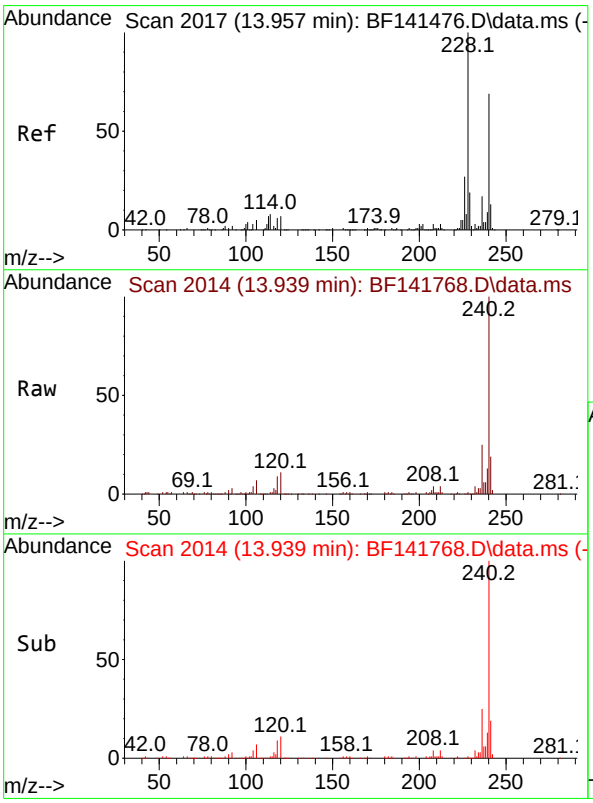
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:188 Resp: 243302

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	8.9	7.3	10.9

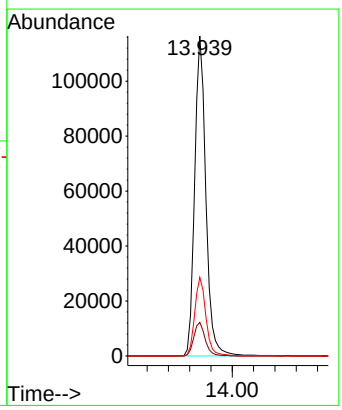


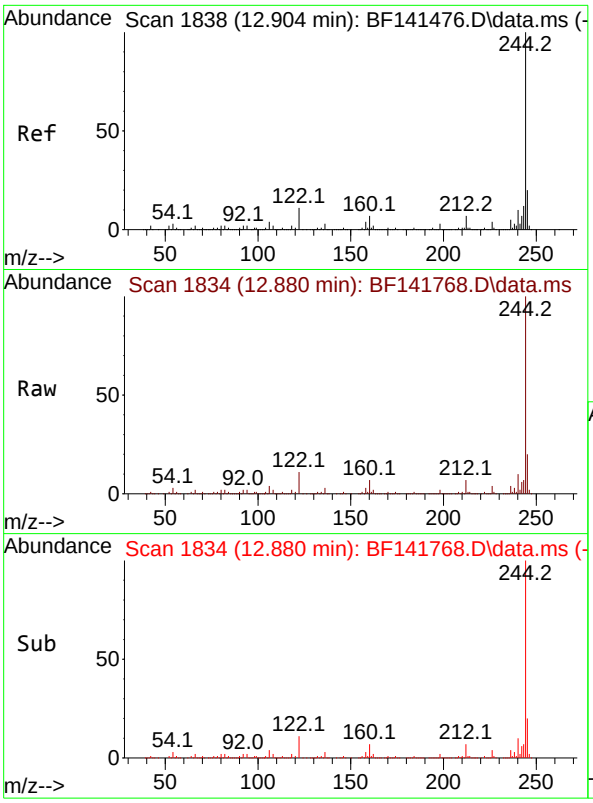


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:240 Resp: 170277

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.0	12.0
236	24.6	19.8	29.8



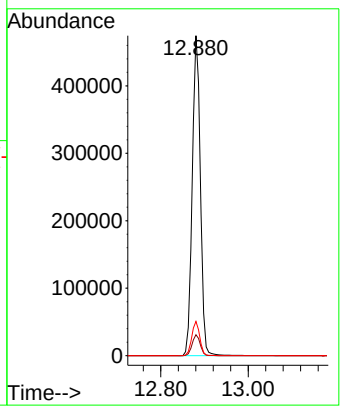


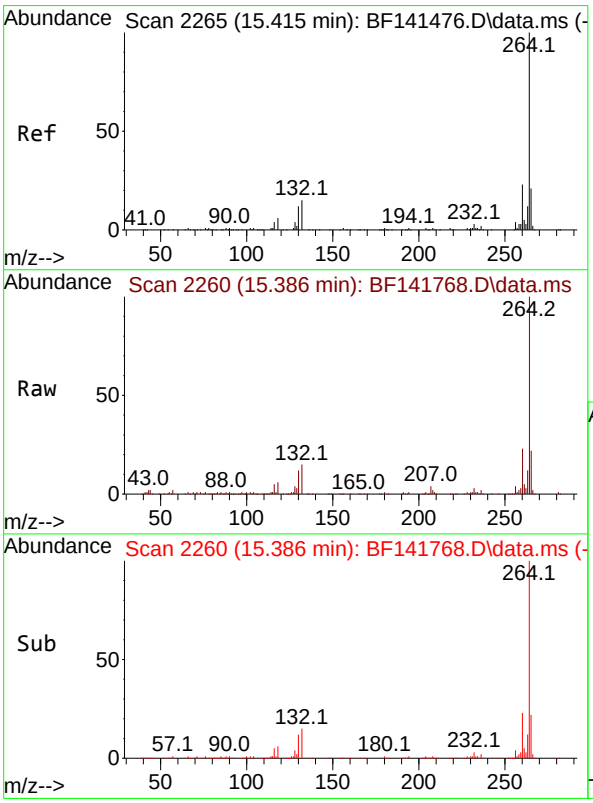
#79
Terphenyl-d14
Concen: 60.815 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:244 Resp: 613407

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.7	8.4	12.6

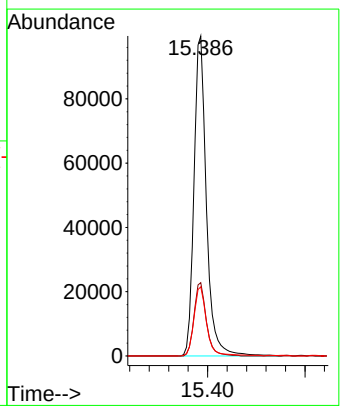




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:264 Resp: 176972

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.6	17.0	25.4



Sample Results: **BF141768.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141768.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.404	557	563	598	rBV	941337	1427427	80.63%	12.145%
2	6.422	731	736	764	rBV	991750	1471761	83.13%	12.523%
3	6.781	792	797	805	rBV	317735	405837	22.92%	3.453%
4	7.345	887	893	906	rBV	652805	946717	53.47%	8.055%
5	7.634	936	942	953	rBV3	11059	31933	1.80%	0.272%
6	8.063	1009	1015	1033	rBV	369801	550525	31.10%	4.684%
7	8.481	1082	1086	1098	rBV3	8399	24800	1.40%	0.211%
8	9.133	1192	1197	1208	rBV	1359640	1770410	100.00%	15.064%
9	9.810	1307	1312	1329	rBV	425601	617243	34.86%	5.252%
10	10.527	1429	1434	1442	rBV	103388	140017	7.91%	1.191%
11	10.604	1442	1447	1462	rVV	645977	917780	51.84%	7.809%
12	11.298	1560	1565	1580	rBV	403529	583845	32.98%	4.968%
13	11.827	1650	1655	1668	rBV3	30194	76759	4.34%	0.653%
14	12.880	1828	1834	1845	rBV	1239544	1593138	89.99%	13.555%
15	13.786	1982	1988	2007	rBV2	36371	125611	7.10%	1.069%
16	13.939	2009	2014	2024	rVB	309103	446567	25.22%	3.800%
17	14.686	2136	2141	2149	rBV2	30298	56704	3.20%	0.482%
18	14.768	2151	2155	2161	rVB	50506	68914	3.89%	0.586%
19	15.386	2253	2260	2272	rBV	266770	478589	27.03%	4.072%
20	15.815	2329	2333	2340	rVB3	11567	18335	1.04%	0.156%

Sum of corrected areas: 11752912

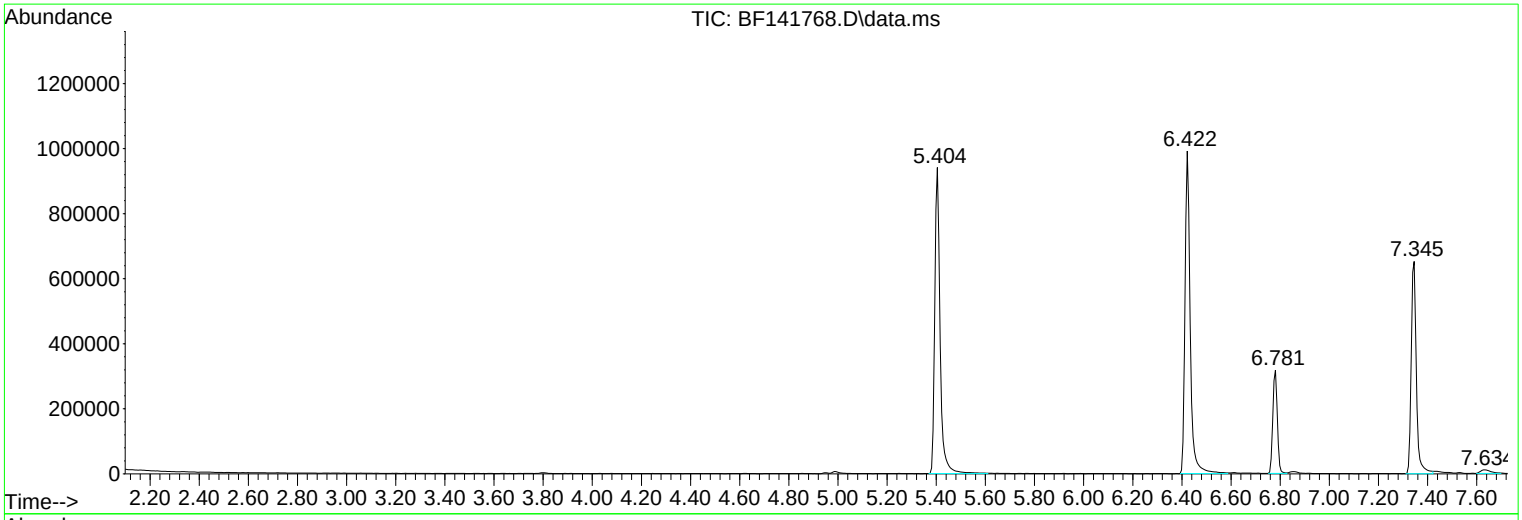
Sample Results: **BF141768.D**

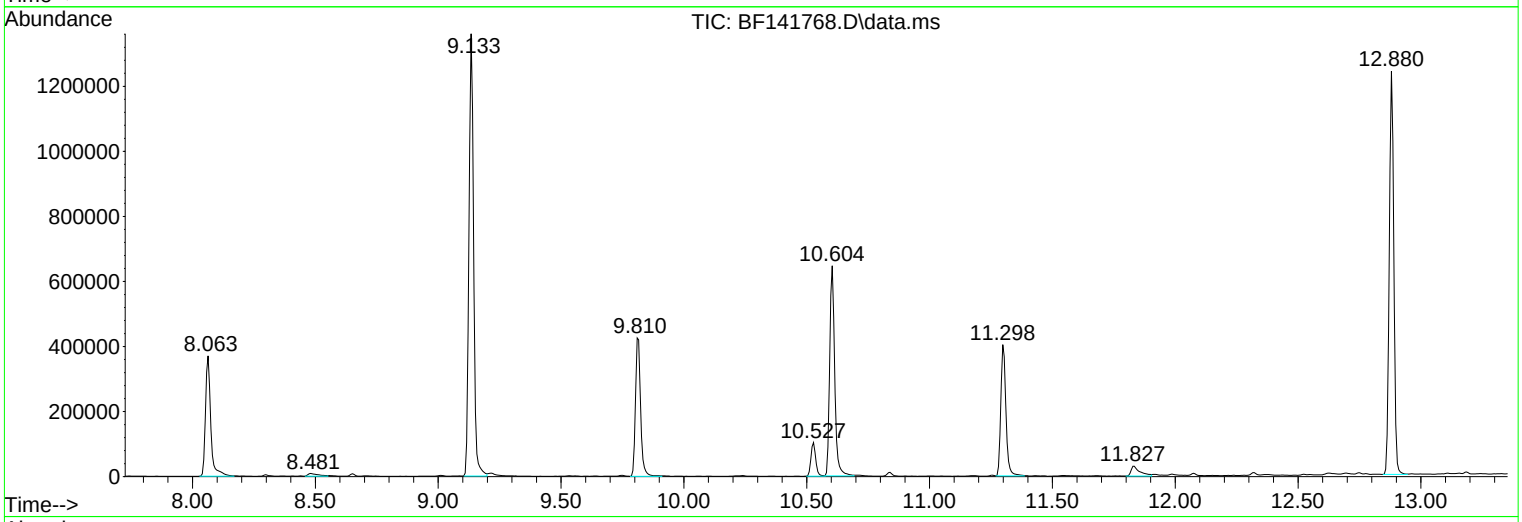
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

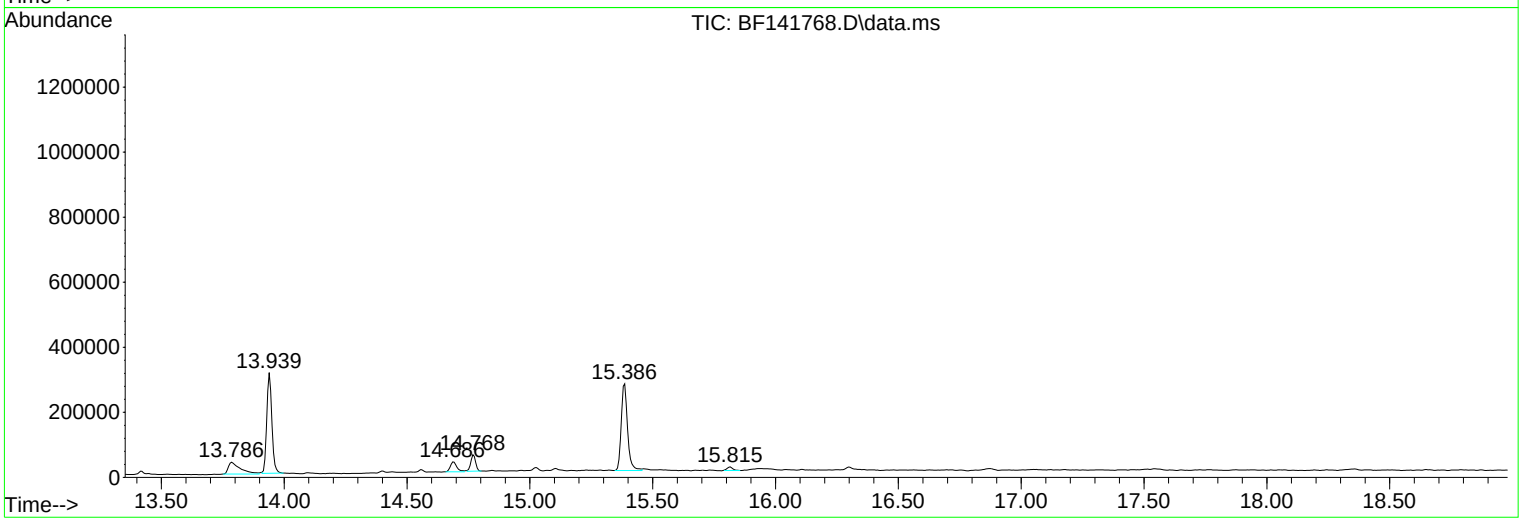
Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

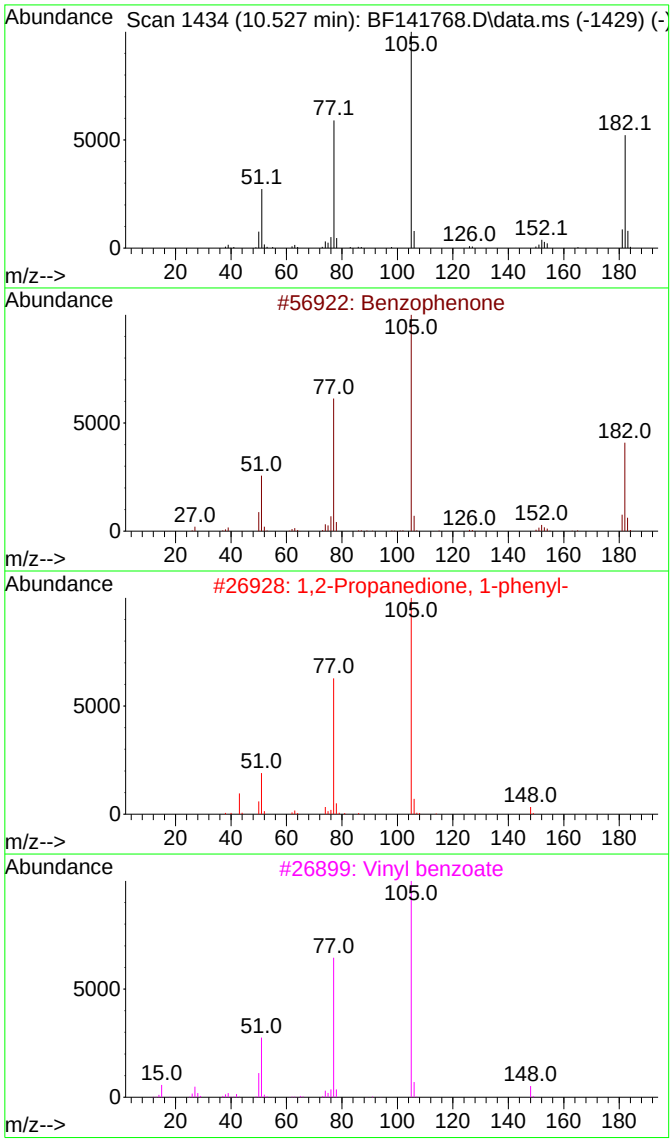
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

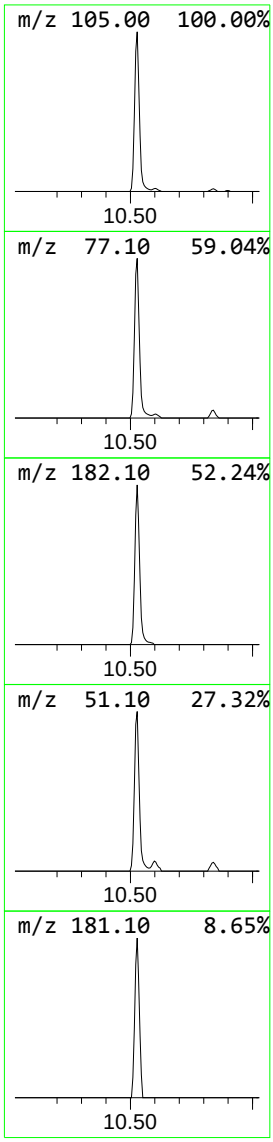
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Peak Number 1 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	4.54 ng	140017	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
5	Ethanone, 2-bromo-1-phenyl-	198	C8H7BrO	000070-11-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

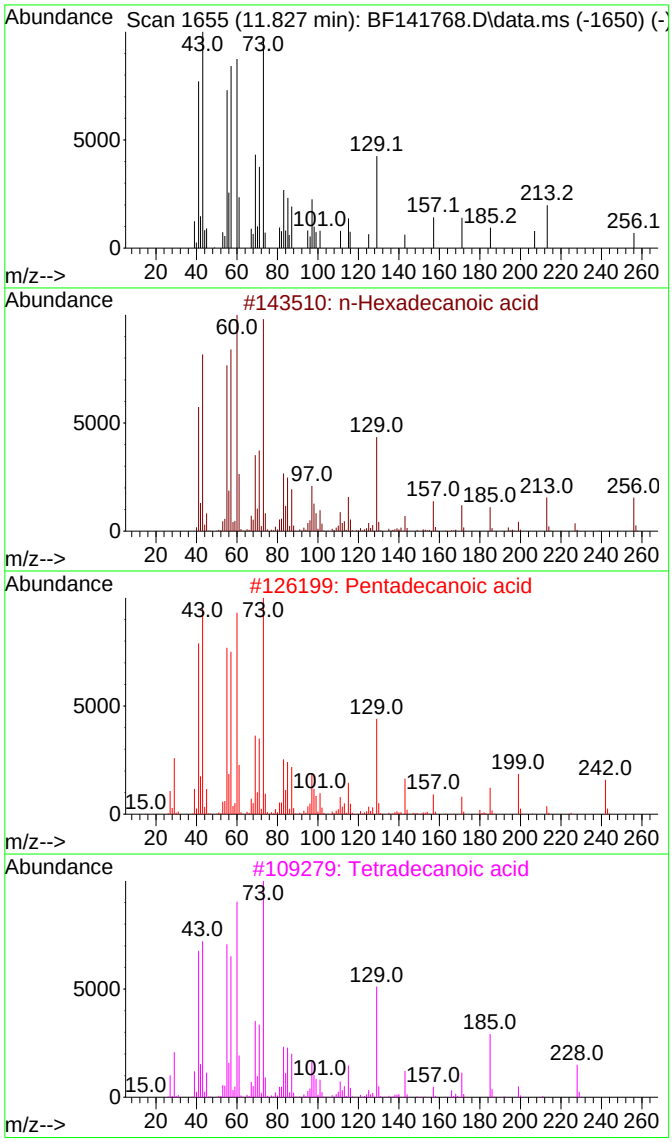
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

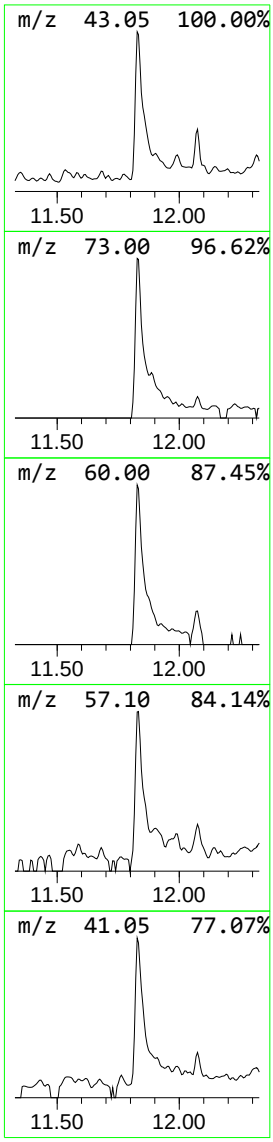
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Peak Number 2 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.827	2.63 ng	76759	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4	Tridecanoic acid	214	C13H26O2	000638-53-9	64
5	n-Decanoic acid	172	C10H20O2	000334-48-5	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

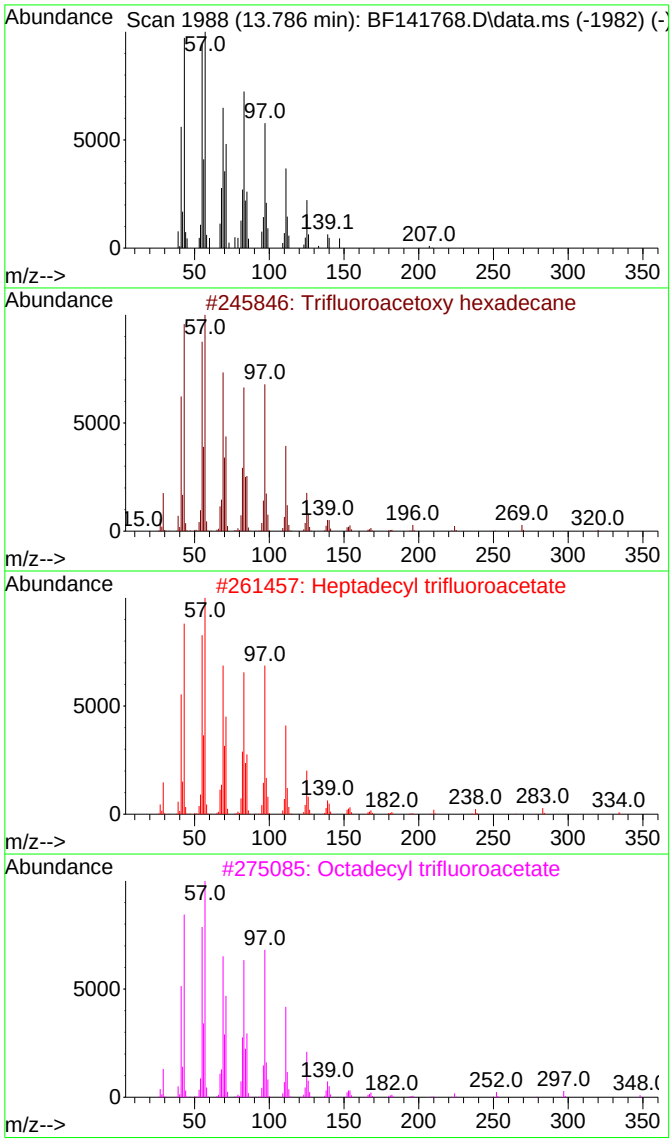
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

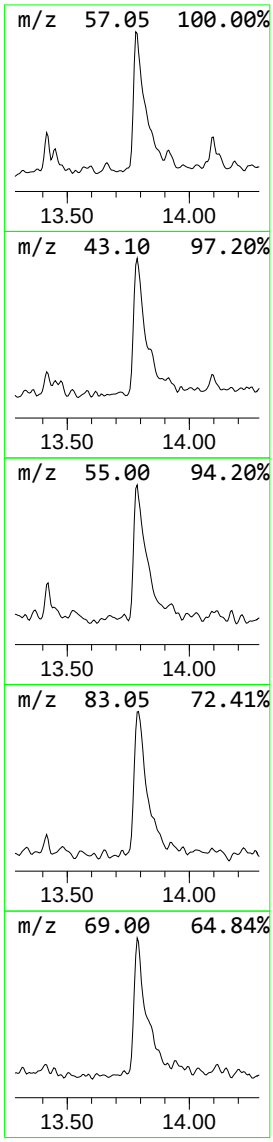
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Peak Number 3 Trifluoroacetoxy hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	5.63 ng	125611	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
3	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
4	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	91
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

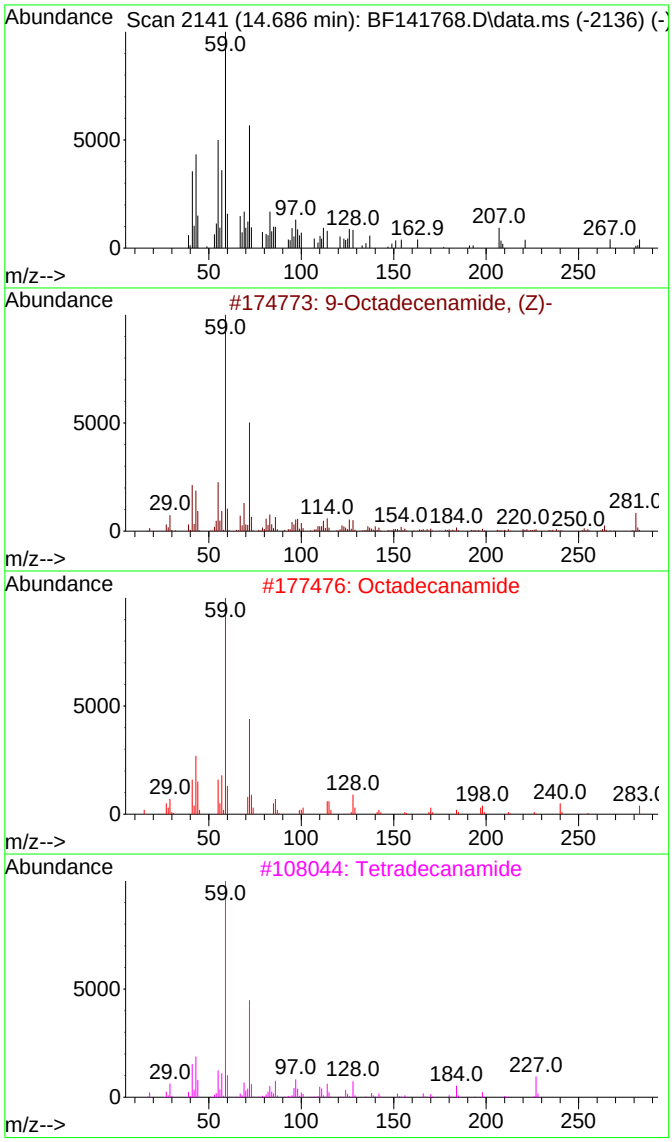
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

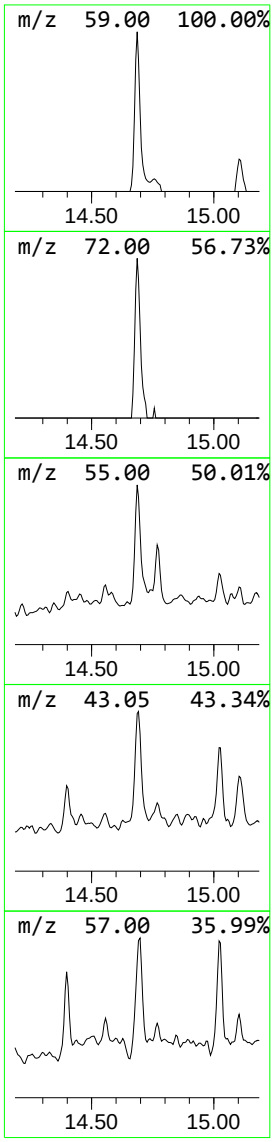
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Peak Number 4 9-Octadecenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.686	2.37 ng	56704	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	87
2	Octadecanamide	283	C18H37NO	000124-26-5	76
3	Tetradecanamide	227	C14H29NO	000638-58-4	64
4	Dodecanamide	199	C12H25NO	001120-16-7	53
5	Hexadecanamide	255	C16H33NO	000629-54-9	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

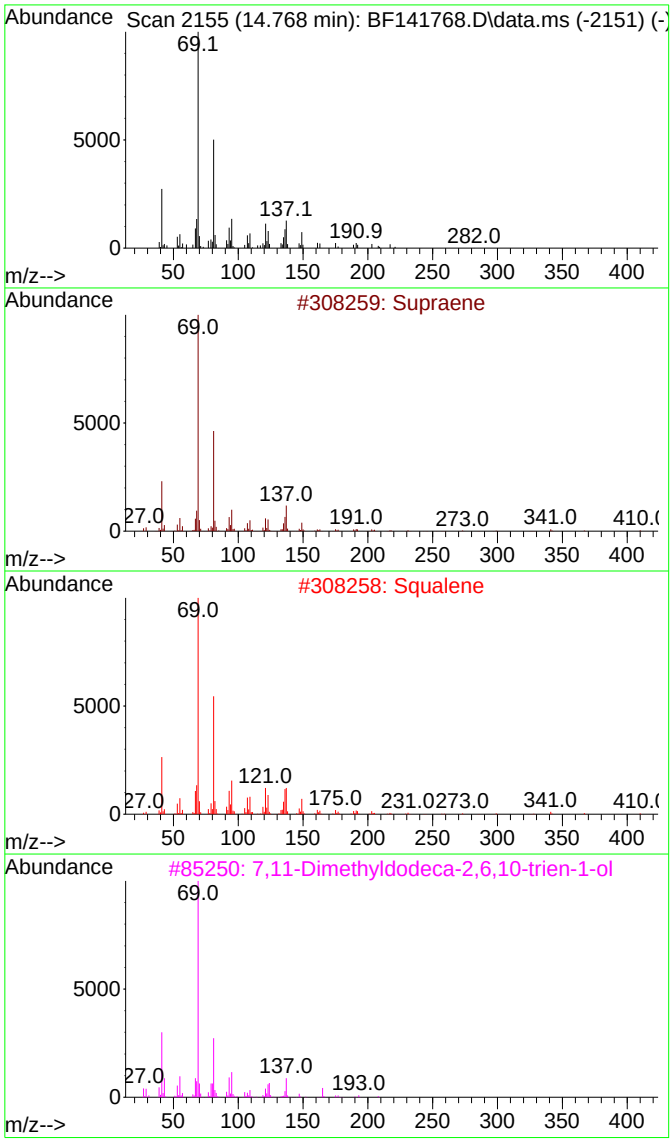
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

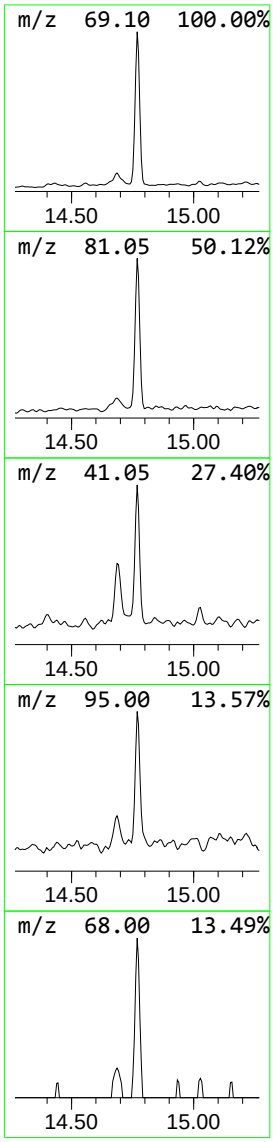
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Peak Number 5 Supraene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.768	2.88 ng	68914	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	91
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	83
4	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	80
5	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzophenone	10.528	4.5	ng	140017	3	9.810	617243	20.0
n-Hexadecanoic ...	11.827	2.6	ng	76759	4	11.298	583845	20.0
Trifluoroacetox...	13.786	5.6	ng	125611	5	13.939	446567	20.0
9-Octadecenamid...	14.686	2.4	ng	56704	6	15.386	478589	20.0
Supraene	14.768	2.9	ng	68914	6	15.386	478589	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Time: Feb 25 16:56:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

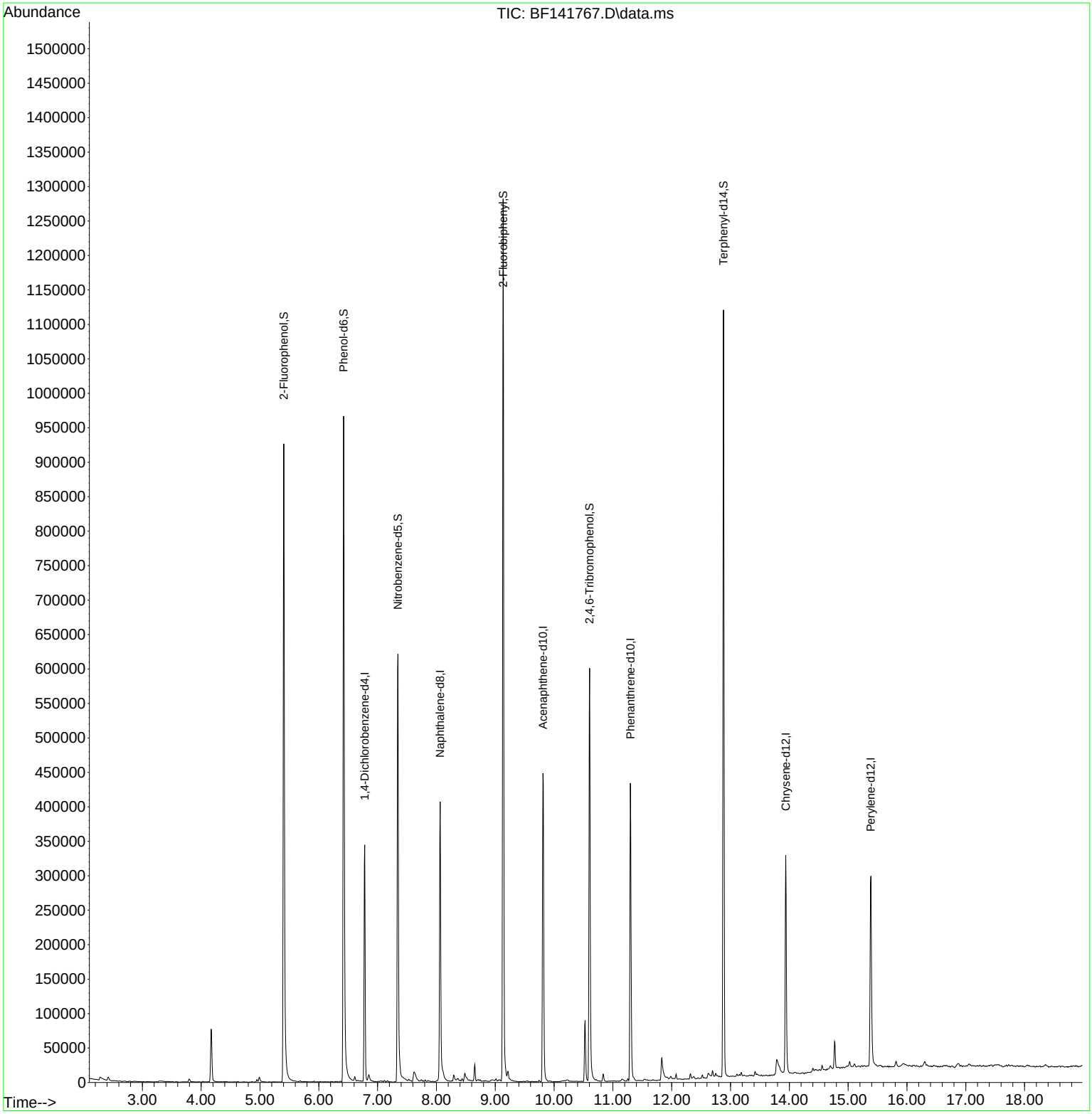
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	74409	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	292573	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	153922	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	248859	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	169140	20.000	ng	-0.02
86) Perylene-d12	15.386	264	184984	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	396859	83.615	ng	0.00
7) Phenol-d6	6.422	99	488768	81.477	ng	-0.02
23) Nitrobenzene-d5	7.345	82	304374	54.262	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	111523	72.126	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	592893	59.344	ng	-0.02
79) Terphenyl-d14	12.880	244	548636	54.759	ng	-0.02
Target Compounds						Qvalue

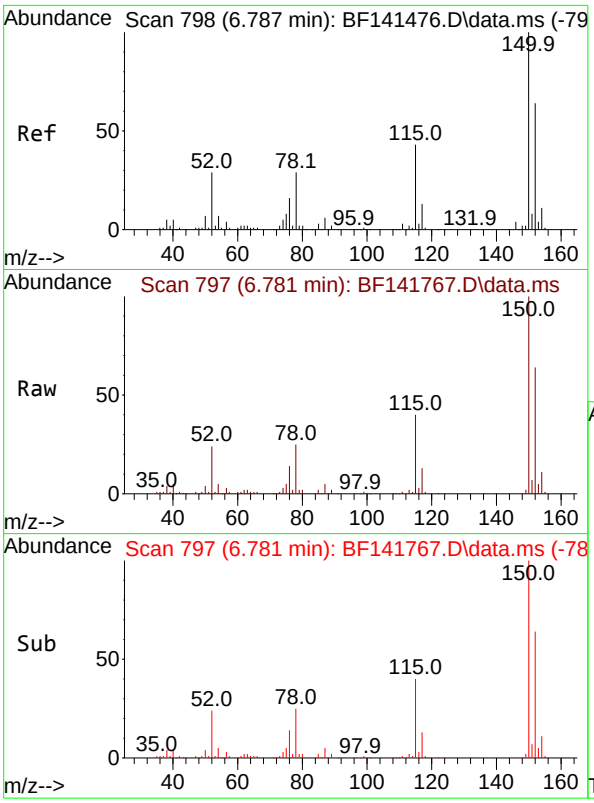
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Time: Feb 25 16:56:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



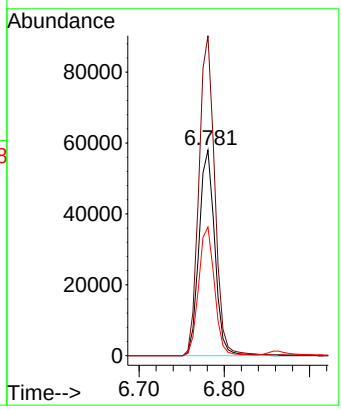


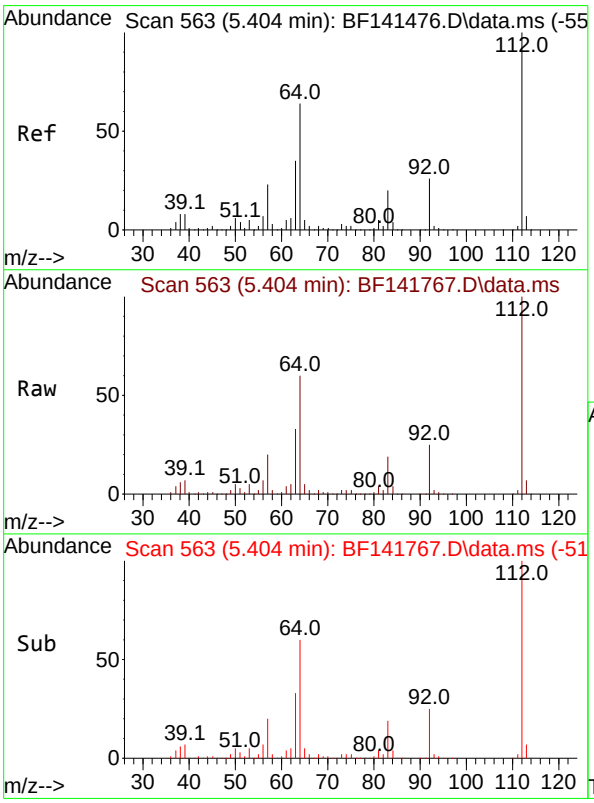
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:152 Resp: 74409

Ion	Ratio	Lower	Upper
152	100		
150	155.8	125.0	187.4
115	62.7	53.6	80.4

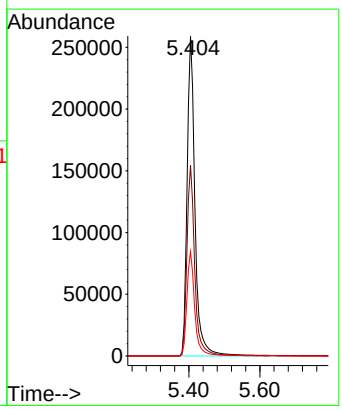


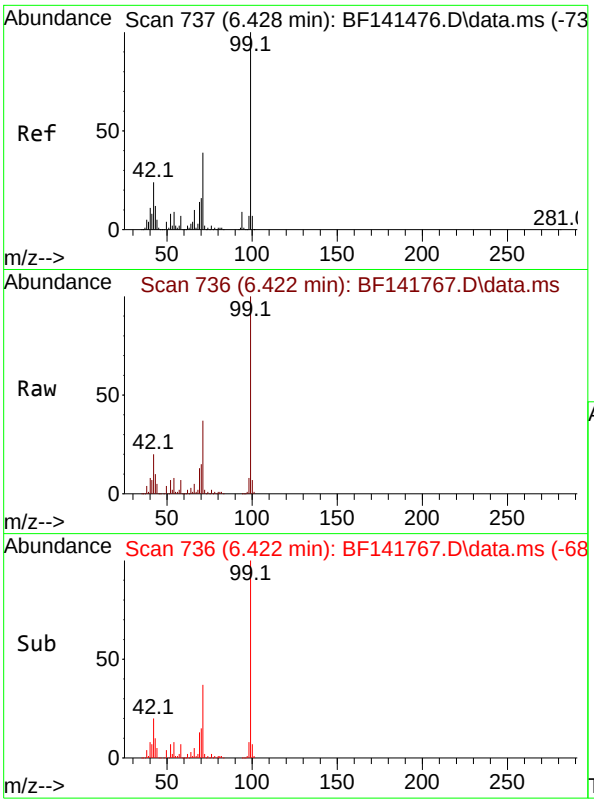


#5
2-Fluorophenol
Concen: 83.615 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:112 Resp: 396859

Ion	Ratio	Lower	Upper
112	100		
64	59.7	51.1	76.7
63	32.6	28.4	42.6



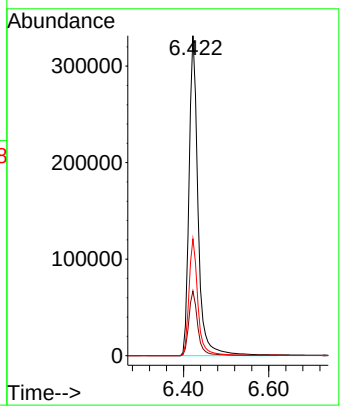


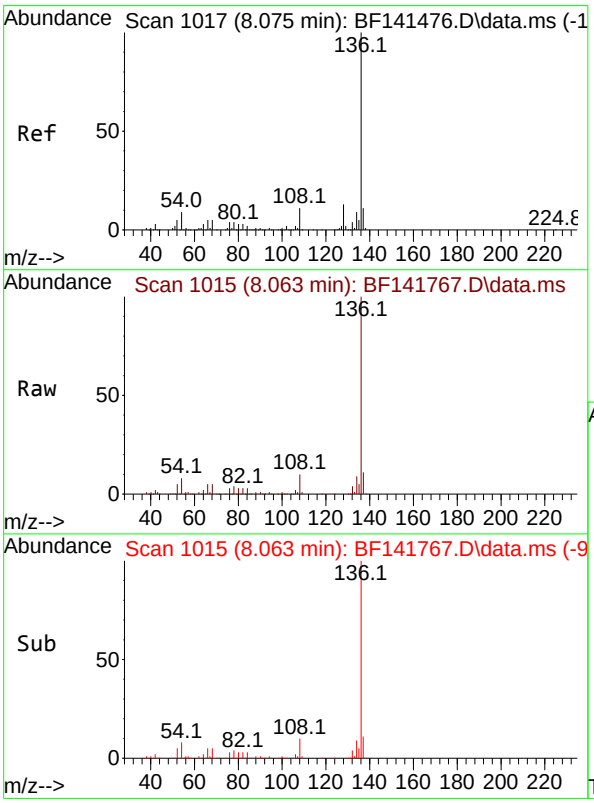
#7
Phenol-d6
Concen: 81.477 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion: 99 Resp: 488768

Ion	Ratio	Lower	Upper
99	100		
42	20.2	19.1	28.7
71	36.5	31.1	46.7

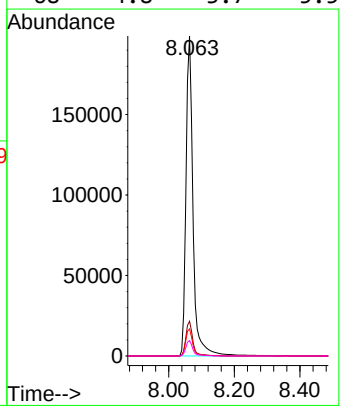


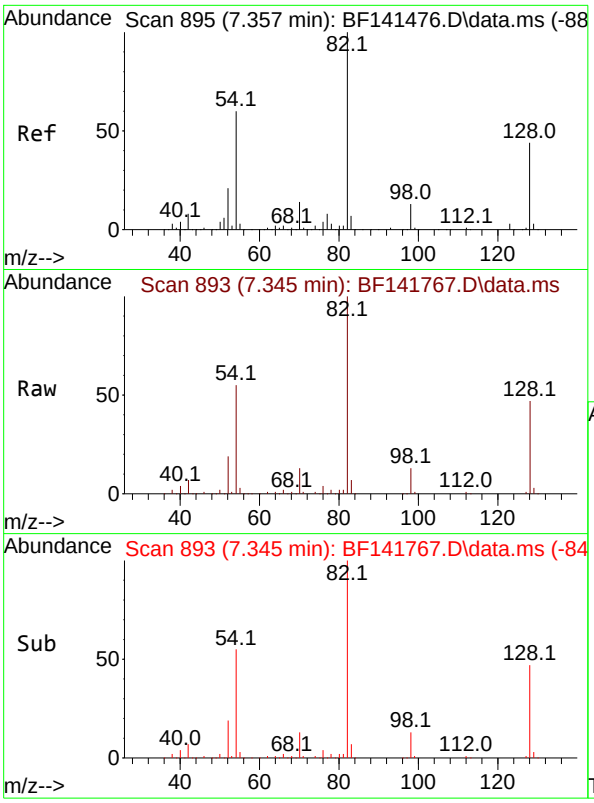


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:136 Resp: 292573

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.4	7.2	10.8
68	4.8	3.7	5.5



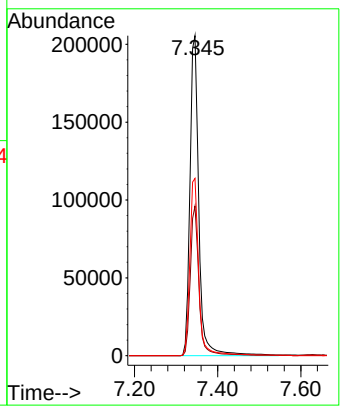


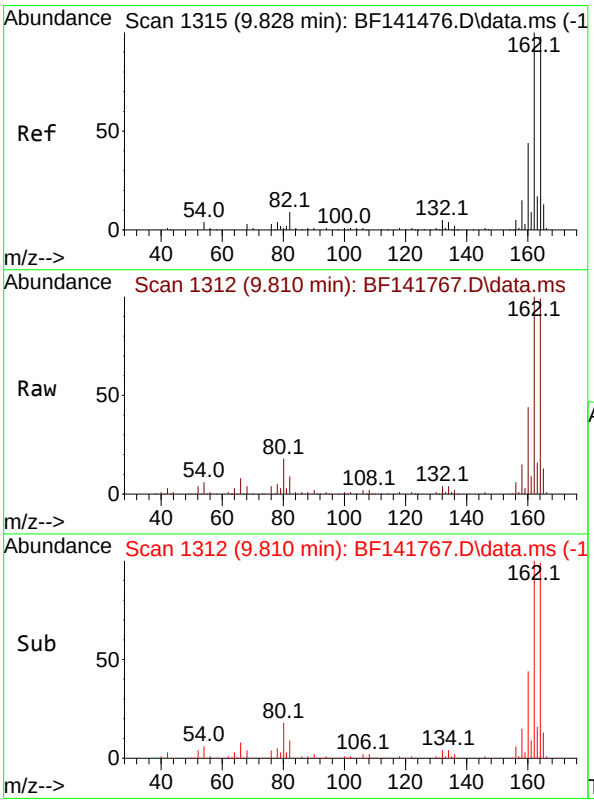
#23
Nitrobenzene-d5
Concen: 54.262 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion: 82 Resp: 304374

Ion	Ratio	Lower	Upper
82	100		
128	46.8	34.8	52.2
54	55.4	48.2	72.4

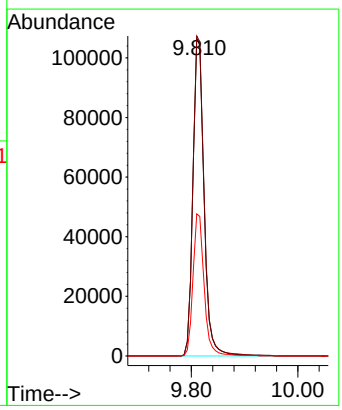


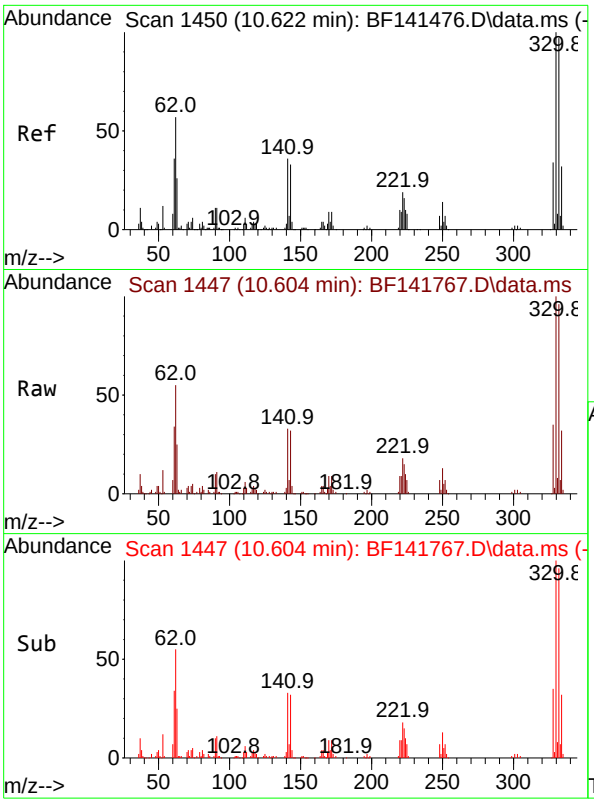


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:164 Resp: 153922

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.3	121.9
160	44.8	35.9	53.9



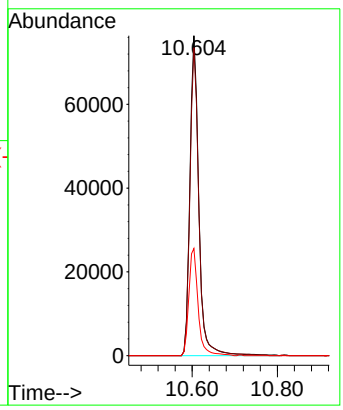


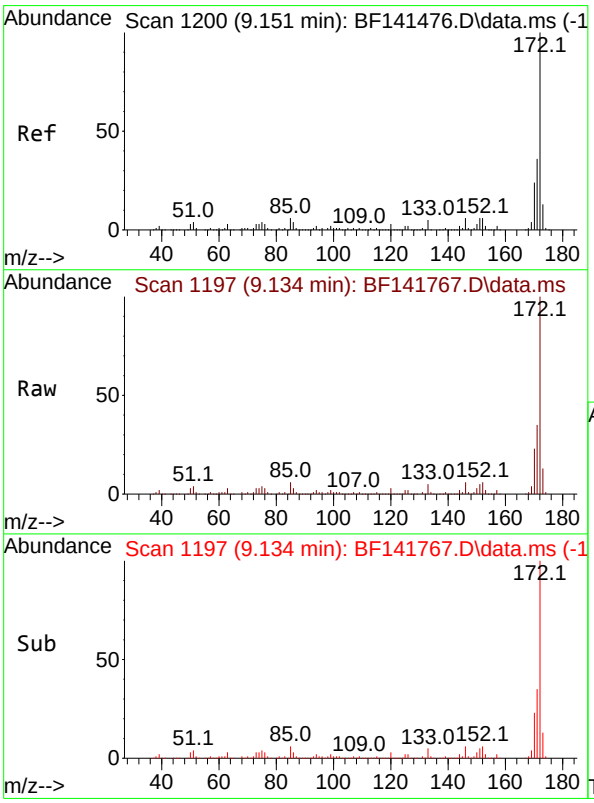
#42
2,4,6-Tribromophenol
Concen: 72.126 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:330 Resp: 111523

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.5	117.7
141	34.7	31.0	46.4

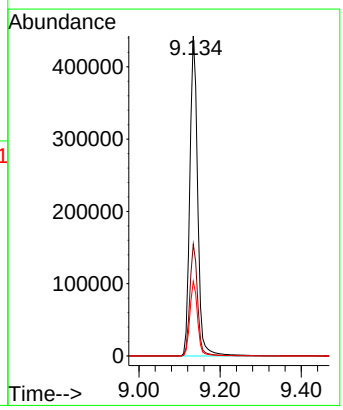


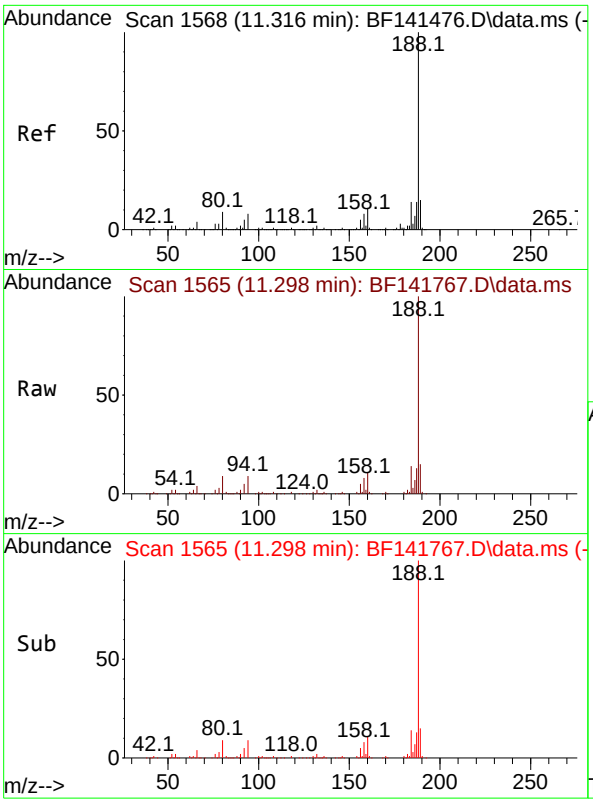


#45
2-Fluorobiphenyl
Concen: 59.344 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:172 Resp: 592893

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.7	43.1
170	23.3	18.9	28.3



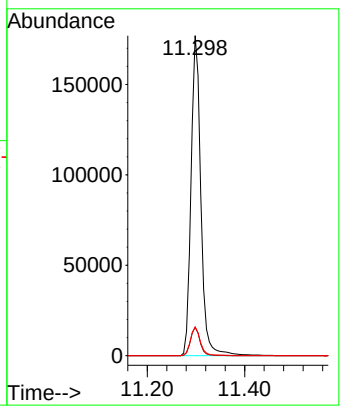


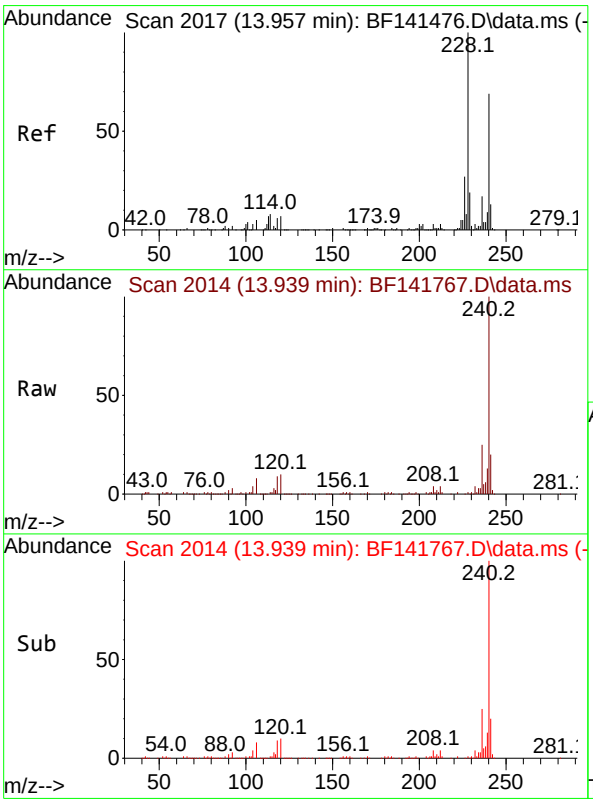
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:188 Resp: 248859

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	8.9	7.3	10.9

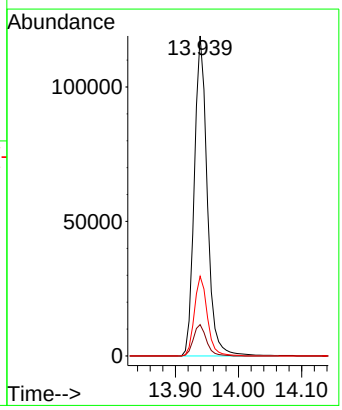


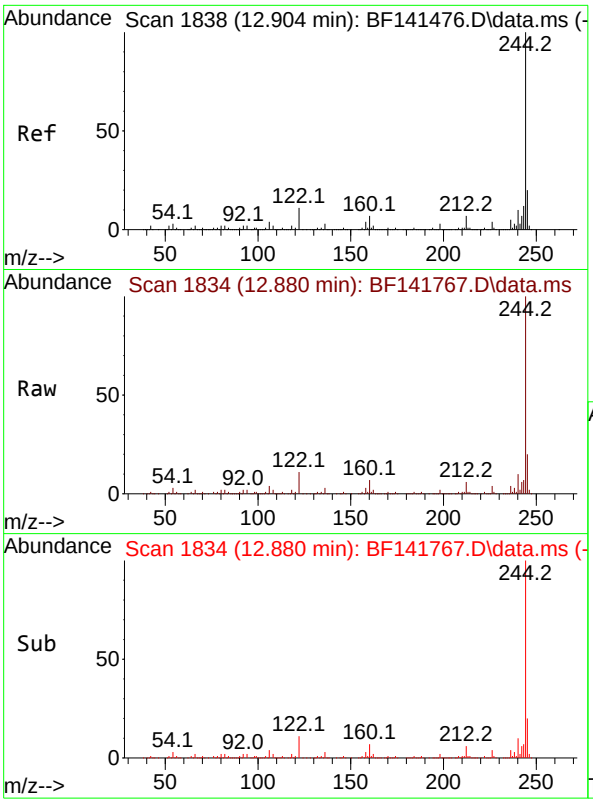


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:240 Resp: 169140

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	24.9	19.8	29.8



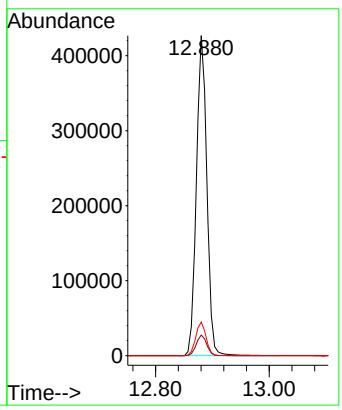


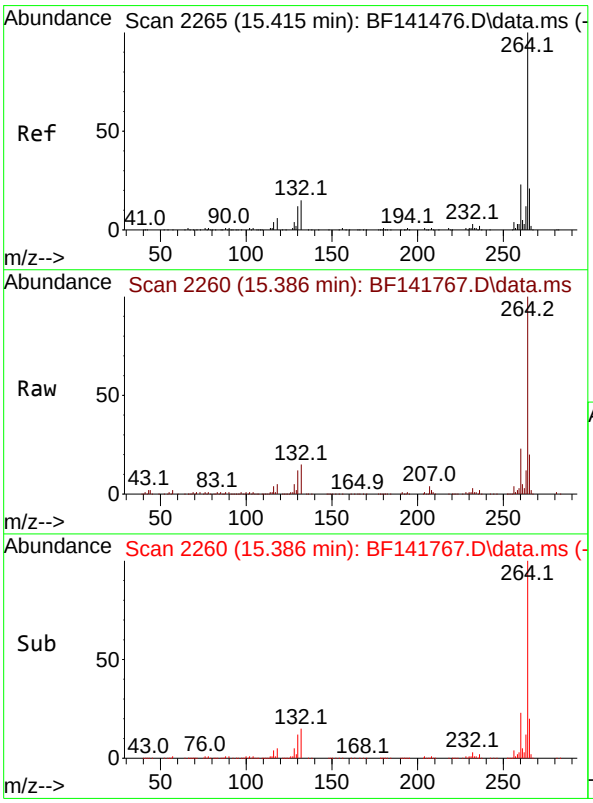
#79
Terphenyl-d14
Concen: 54.759 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:244 Resp: 548636

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.5	8.4	12.6

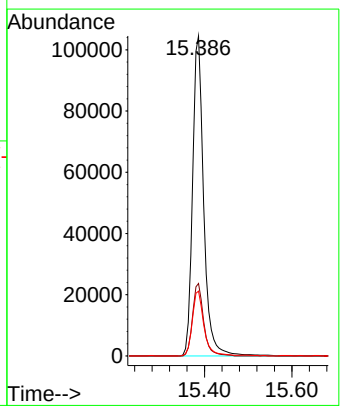




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:264 Resp: 184984

Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.6	28.0
265	20.3	17.0	25.4



Sample Results: **BF141767.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141767.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.169	348	353	366	rBV	76540	123026	7.34%	1.065%
2	5.404	558	563	590	rBV	925693	1397247	83.34%	12.092%
3	6.422	731	736	763	rBV	965895	1440200	85.90%	12.464%
4	6.781	792	797	804	rBV	343020	439562	26.22%	3.804%
5	7.345	887	893	921	rBV	620622	929257	55.42%	8.042%
6	7.622	934	940	956	rBV2	13528	43909	2.62%	0.380%
7	8.063	1007	1015	1046	rVB	405670	612718	36.54%	5.303%
8	8.481	1082	1086	1097	rBV2	11430	28505	1.70%	0.247%
9	8.651	1110	1115	1119	rVB	23536	29162	1.74%	0.252%
10	9.134	1192	1197	1208	rBV	1279829	1676633	100.00%	14.510%
11	9.216	1208	1211	1222	rVB	13547	24203	1.44%	0.209%
12	9.810	1307	1312	1327	rBV	447409	638265	38.07%	5.524%
13	10.528	1429	1434	1442	rBV	88600	122353	7.30%	1.059%
14	10.604	1442	1447	1463	rVV	598616	870508	51.92%	7.534%
15	11.298	1560	1565	1582	rVB	431697	600720	35.83%	5.199%
16	11.833	1651	1656	1668	rBV2	32644	80572	4.81%	0.697%
17	12.622	1786	1790	1798	rBV5	6663	18026	1.08%	0.156%
18	12.880	1829	1834	1847	rBV	1112299	1423253	84.89%	12.317%
19	13.786	1983	1988	2005	rBV6	21109	77342	4.61%	0.669%
20	13.939	2009	2014	2026	rVB	316544	449213	26.79%	3.888%
21	14.769	2151	2155	2164	rBV	37677	52177	3.11%	0.452%
22	15.386	2254	2260	2274	rBV	274726	477917	28.50%	4.136%

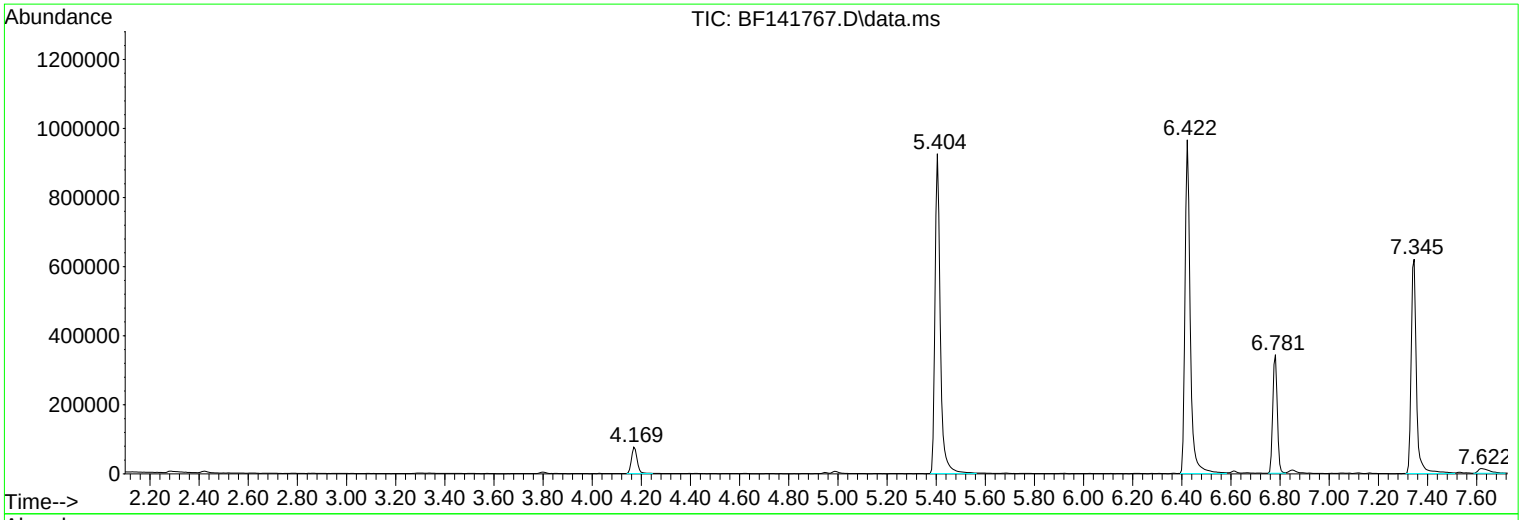
Sum of corrected areas: 11554768

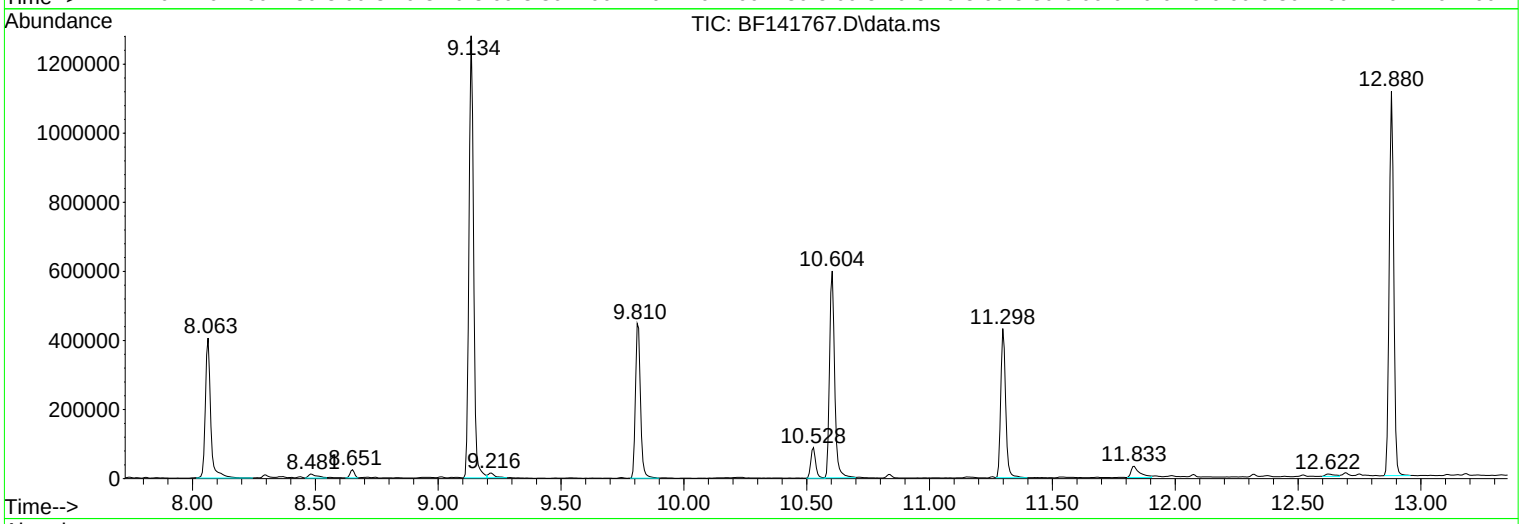
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

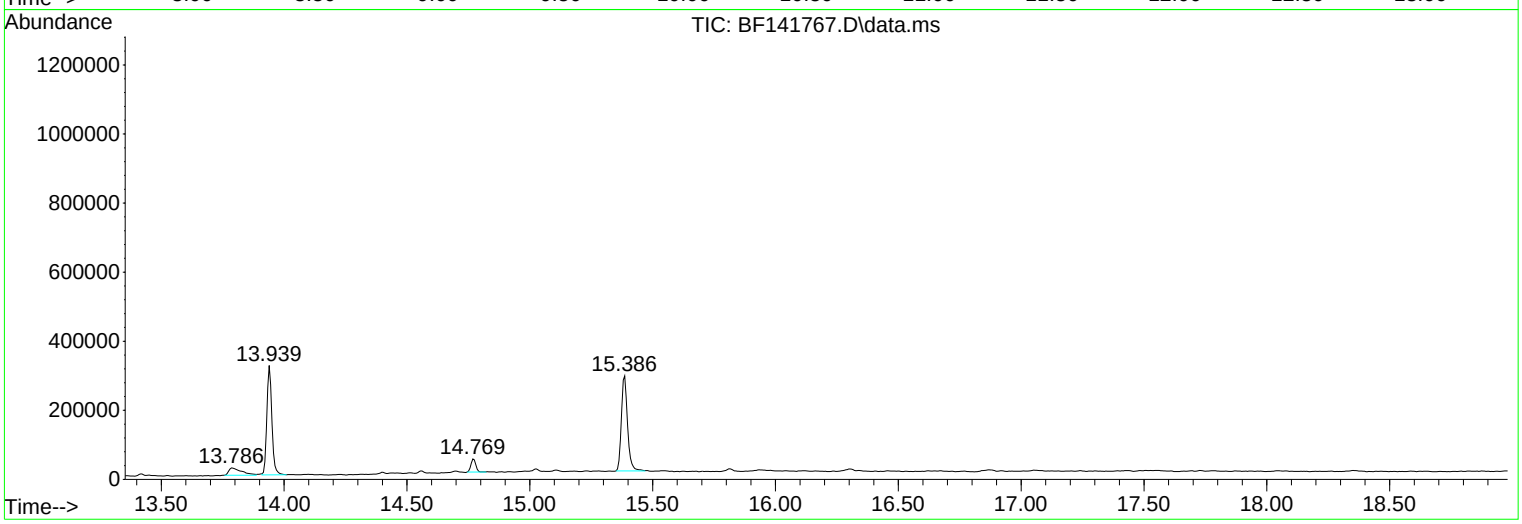
Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

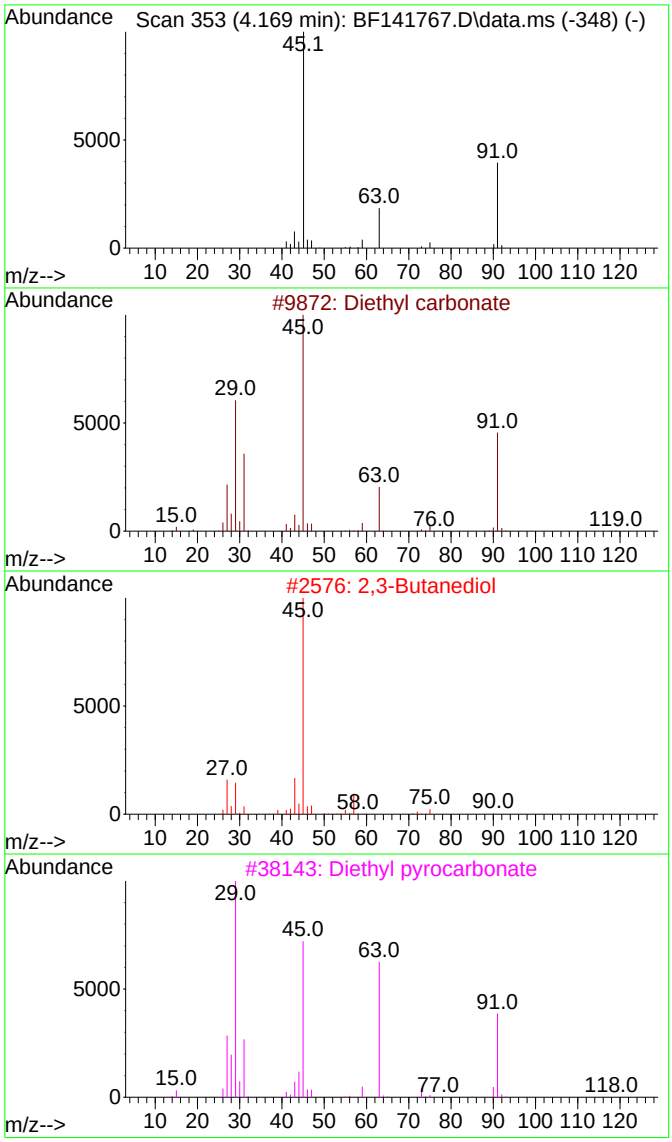
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

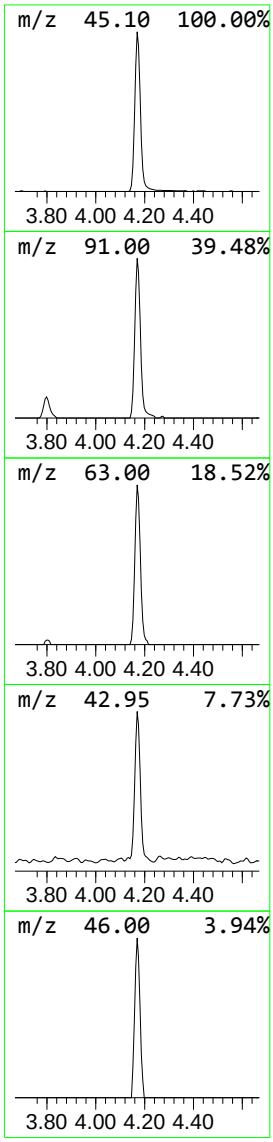
****

Peak Number 1 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.169	5.60 ng	123026	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	83
2	2,3-Butanediol	90	C4H10O2	000513-85-9	9
3	Diethyl pyrocarbonate	162	C6H10O5	001609-47-8	9
4	2-Propanol, 1-methoxy-	90	C4H10O2	000107-98-2	9
5	Propanoic acid, 2-hydroxy-, ethy...	118	C5H10O3	000097-64-3	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

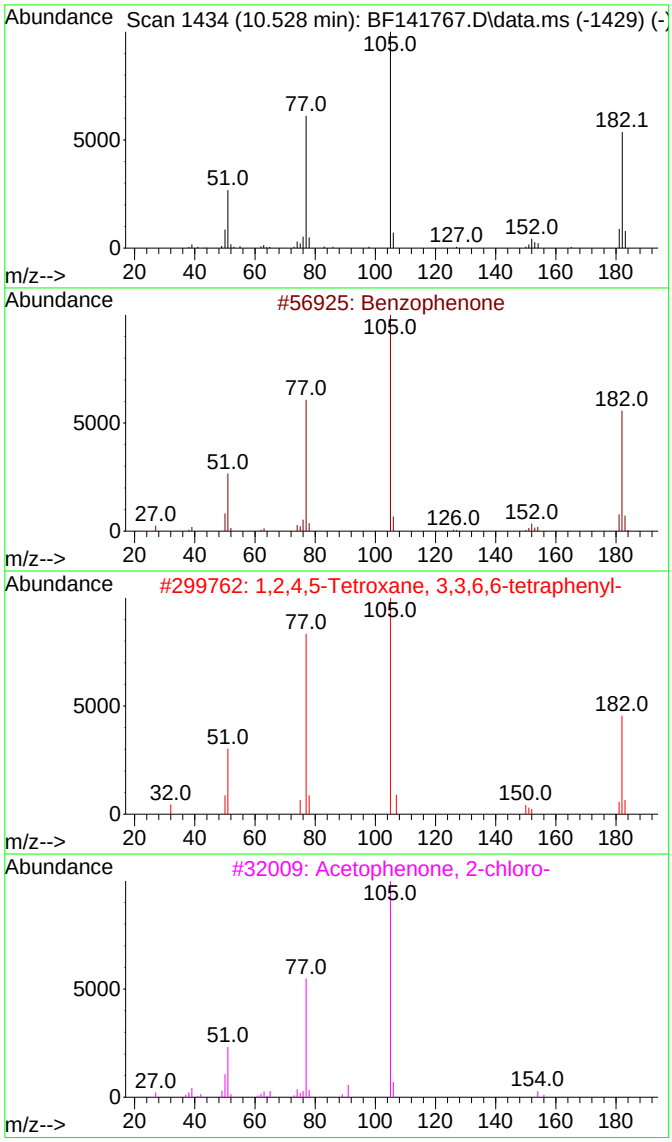
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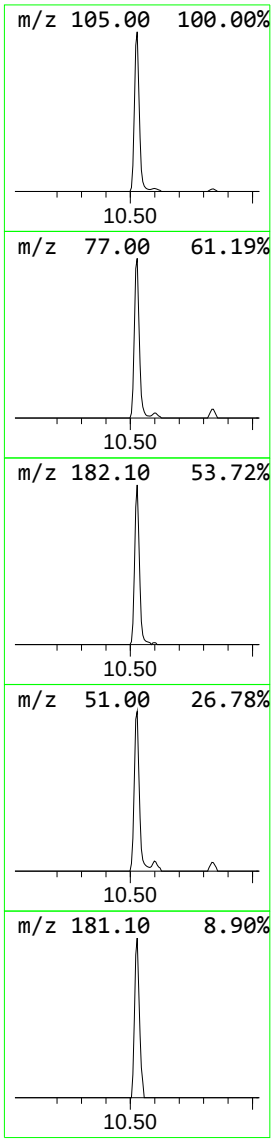
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Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	3.83 ng	122353	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	78
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Vinyl benzoate	148	C9H8O2	000769-78-8	47
5	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

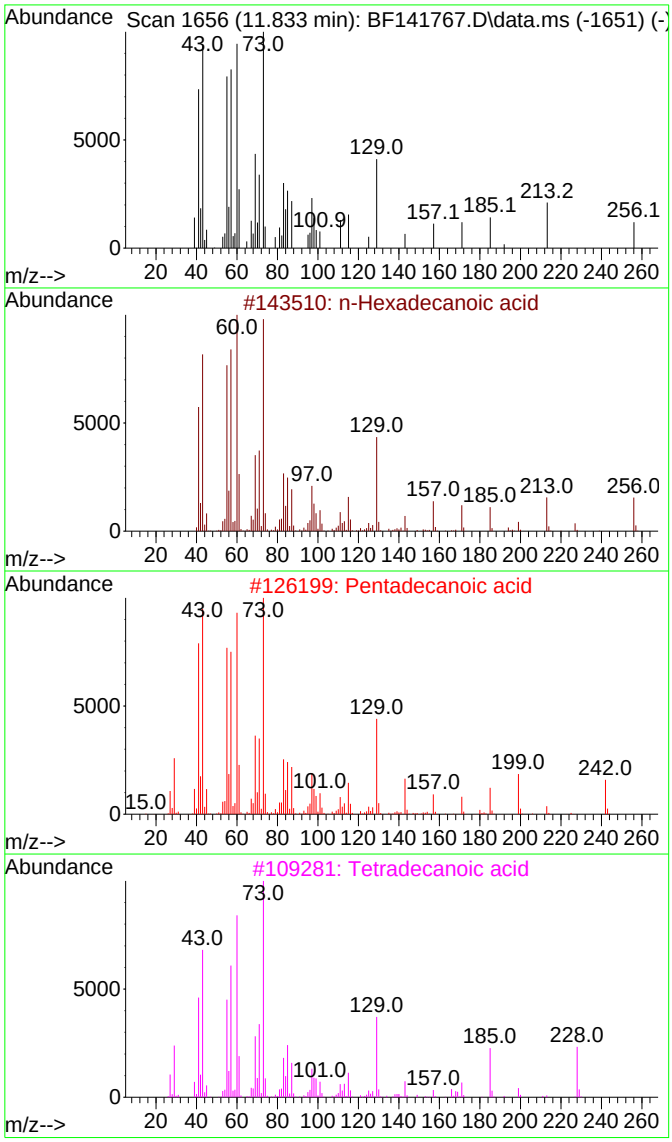
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TIC Integration Parameters: LSCINT.P

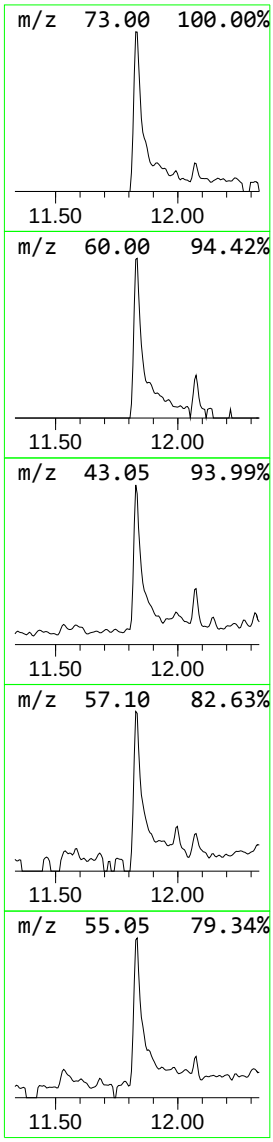
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	2.68 ng	80572	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	74
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
4	Tridecanoic acid	214	C13H26O2	000638-53-9	64
5	Decanoic acid, silver(1+) salt	278	C10H19AgO2	013126-67-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

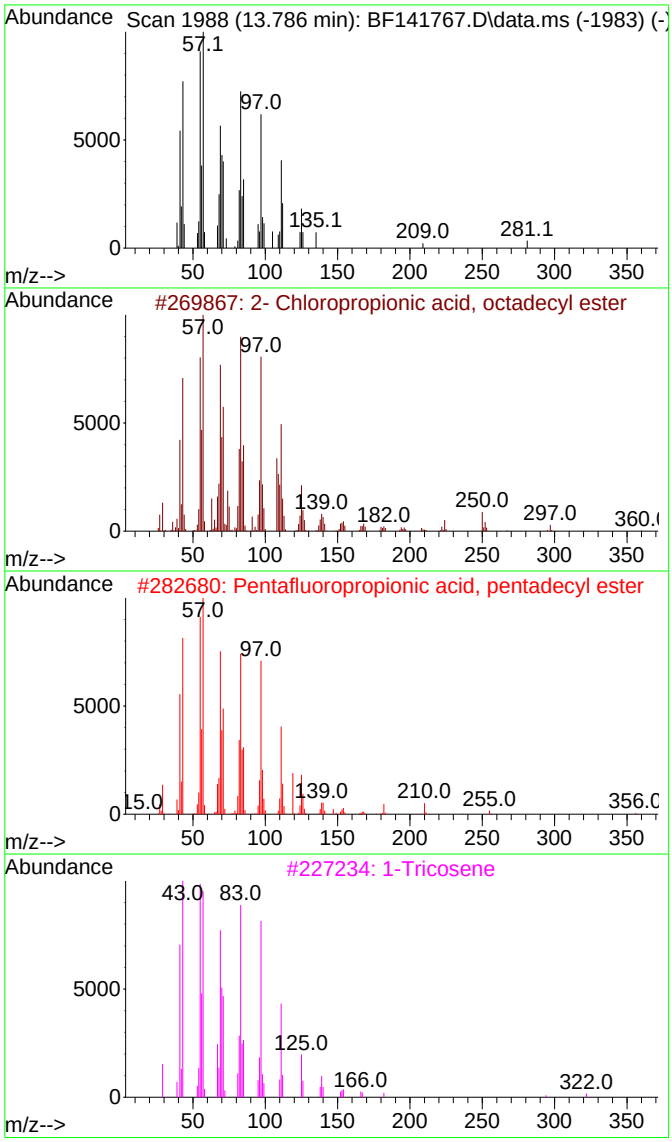
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

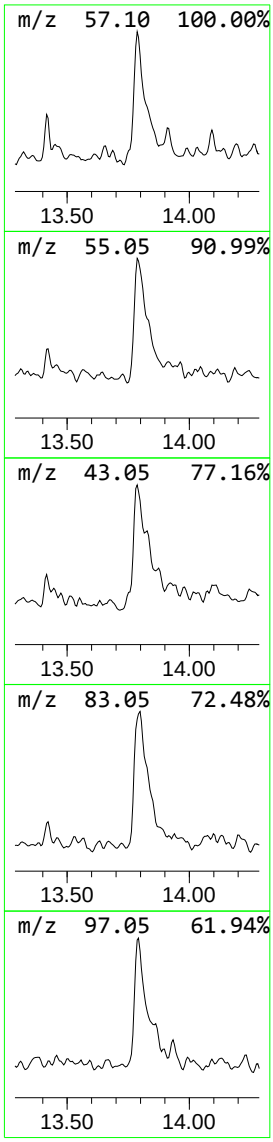
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Peak Number 4 2- Chloropropionic acid, oc... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	3.44 ng	77342	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	91
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	91
3	1-Tricosene	322	C23H46	018835-32-0	90
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	87
5	Trichloroacetic acid, tetradecyl...	358	C16H29Cl3O2	074339-52-9	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

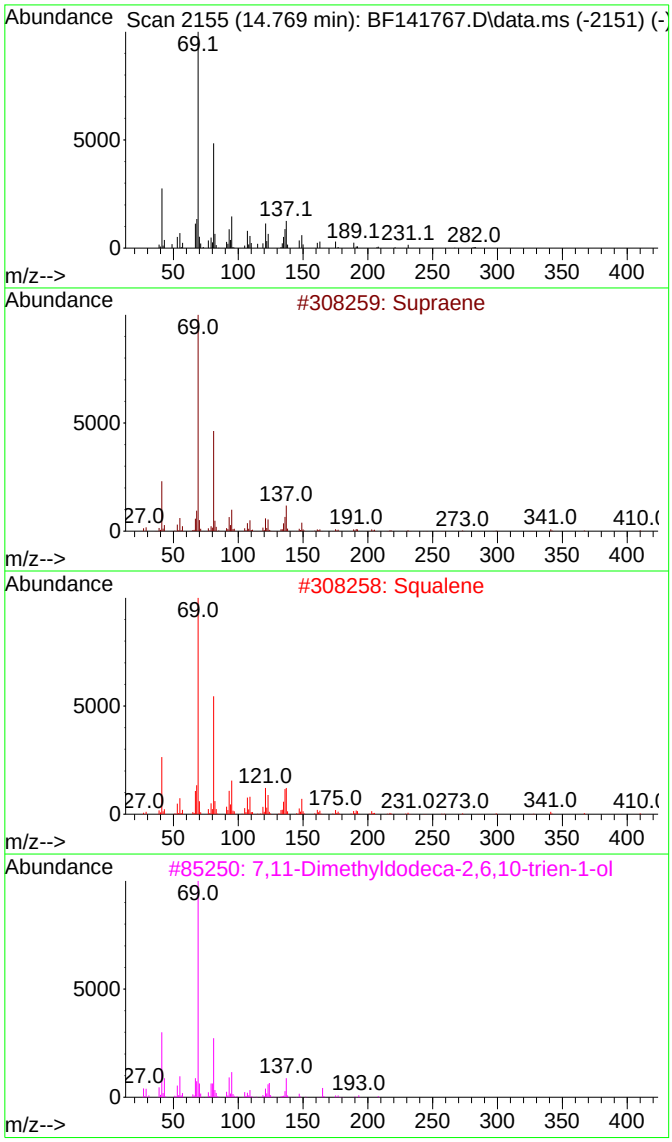
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

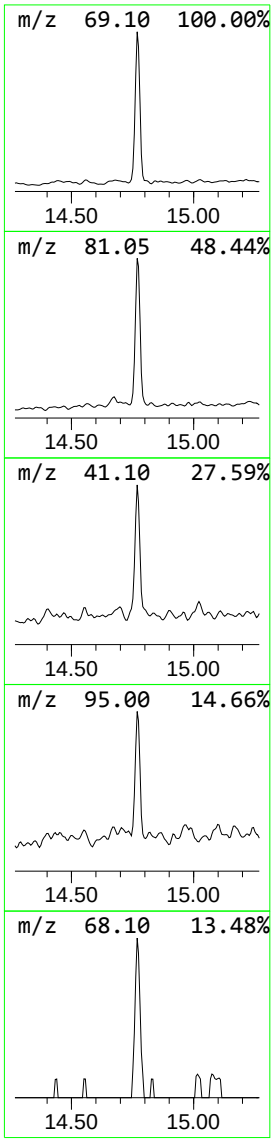
****

Peak Number 5 Supraene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	2.18 ng	52177	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	91
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	80
4	(3E,7E)-4,8,12-Trimethyltrideca-...	218	C16H26	062235-06-7	59
5	(2E,6E)-3,7,11-Trimethyldodeca-2...	404	C27H48O2	078368-58-8	56





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Diethyl carbonate	4.169	5.6	ng	123026	1	6.781	439562	20.0
Benzophenone	10.528	3.8	ng	122353	3	9.810	638265	20.0
n-Hexadecanoic ...	11.833	2.7	ng	80572	4	11.298	600720	20.0
2- Chloropropio...	13.786	3.4	ng	77342	5	13.939	449213	20.0
Supraene	14.769	2.2	ng	52177	6	15.386	477917	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Time: Feb 25 16:27:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

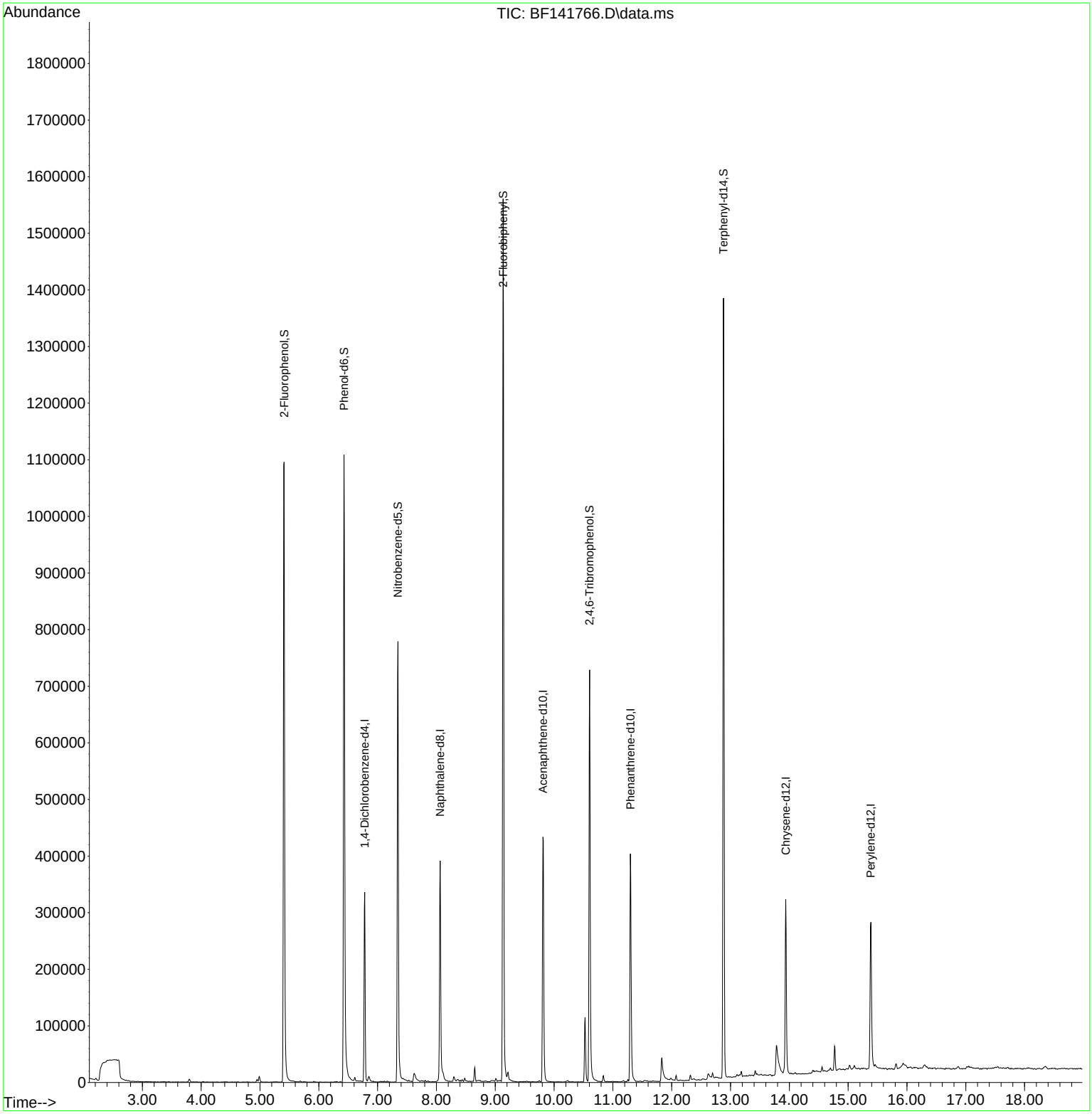
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	71117	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	279572	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	151408	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	244202	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	165983	20.000	ng	-0.02
86) Perylene-d12	15.386	264	176431	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	462654	101.990	ng	0.00
7) Phenol-d6	6.428	99	566004	98.719	ng	-0.01
23) Nitrobenzene-d5	7.345	82	367579	68.577	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	130576	85.851	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	717455	73.004	ng	-0.02
79) Terphenyl-d14	12.880	244	686743	69.847	ng	-0.02
Target Compounds						Qvalue

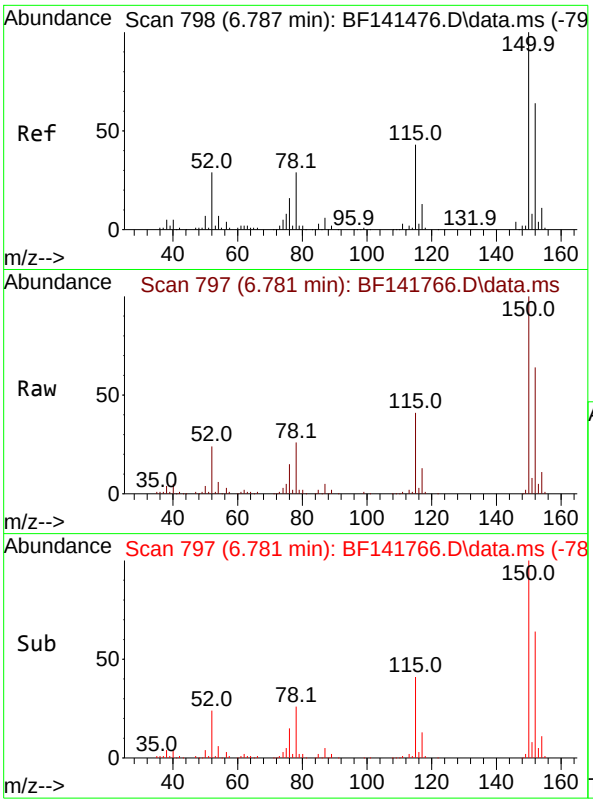
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Time: Feb 25 16:27:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



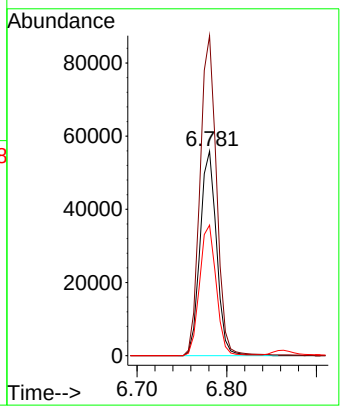


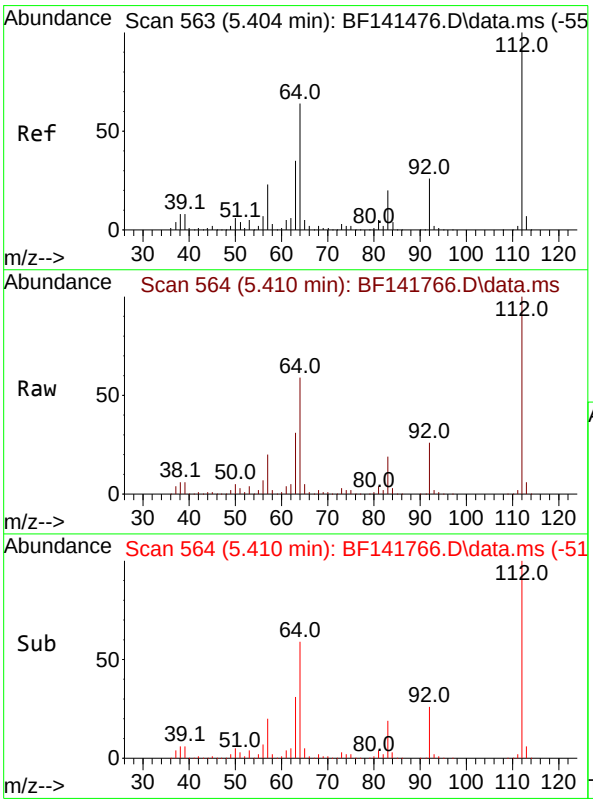
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:152 Resp: 71117

Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.0	187.4
115	63.9	53.6	80.4

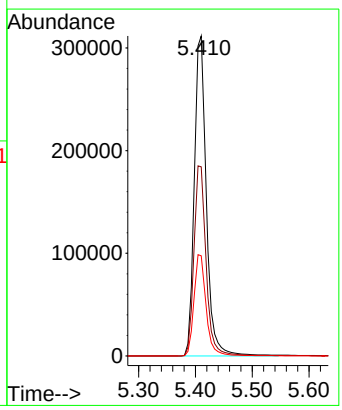


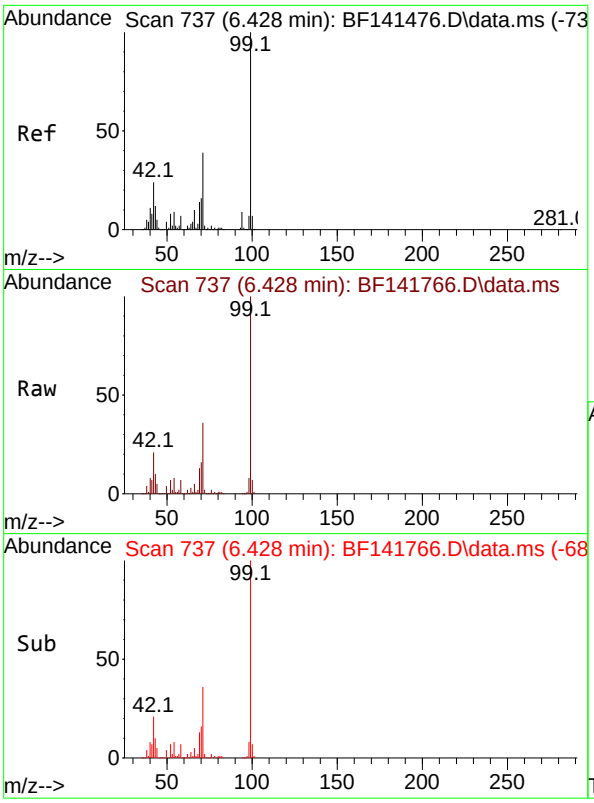


#5
2-Fluorophenol
Concen: 101.990 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:112 Resp: 462654

Ion	Ratio	Lower	Upper
112	100		
64	59.1	51.1	76.7
63	31.3	28.4	42.6



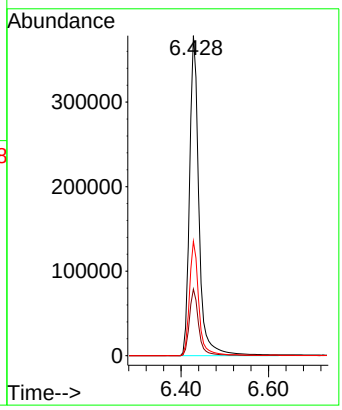


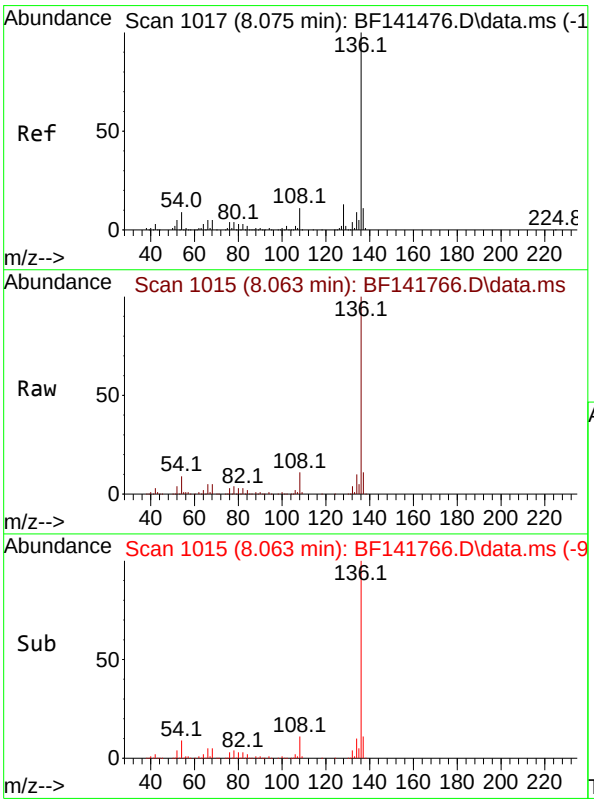
#7
Phenol-d6
Concen: 98.719 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion: 99 Resp: 566004

Ion	Ratio	Lower	Upper
99	100		
42	20.8	19.1	28.7
71	35.8	31.1	46.7

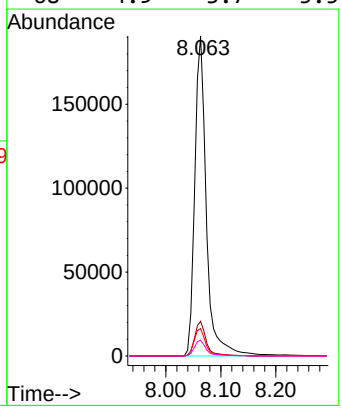


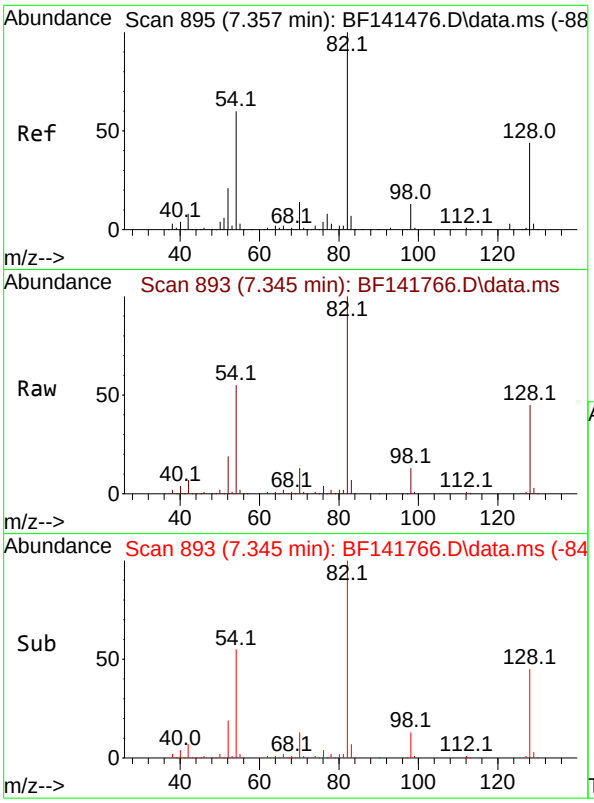


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:136 Resp: 279572

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.5	7.2	10.8
68	4.9	3.7	5.5



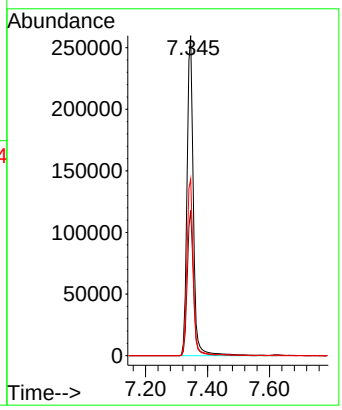


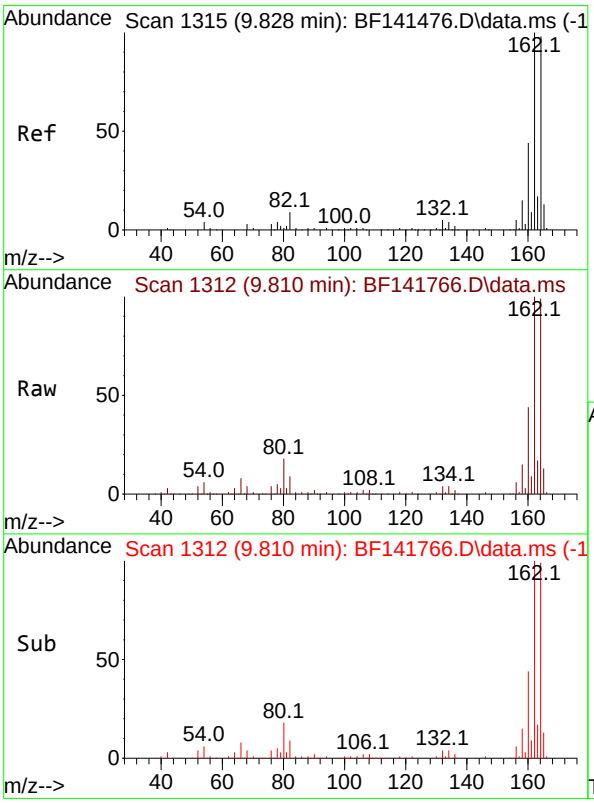
#23
Nitrobenzene-d5
Concen: 68.577 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion: 82 Resp: 367579

Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.8	52.2
54	55.2	48.2	72.4

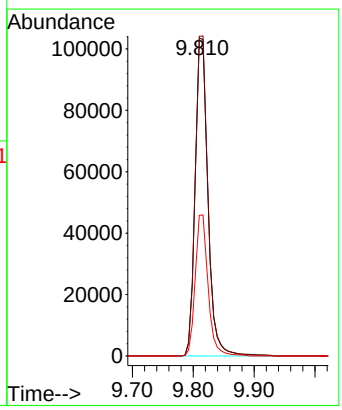


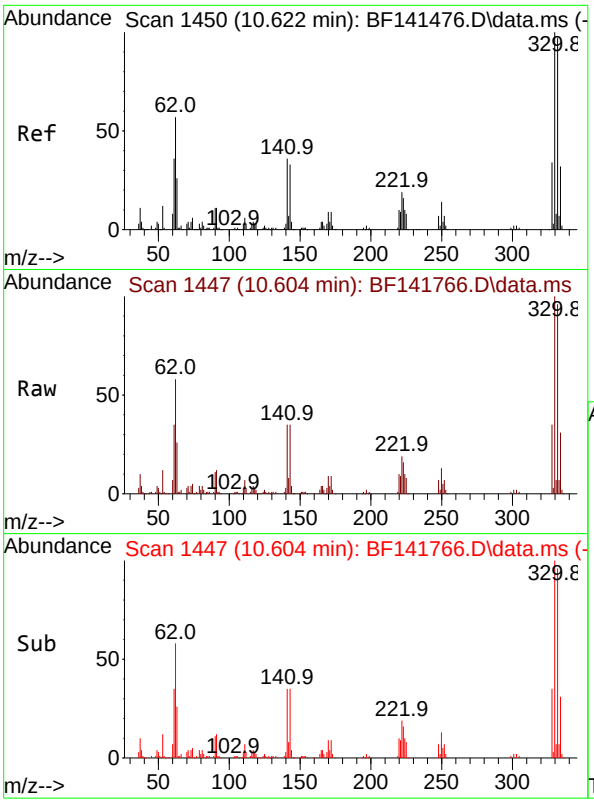


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:164 Resp: 151408

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.3	121.9
160	44.3	35.9	53.9



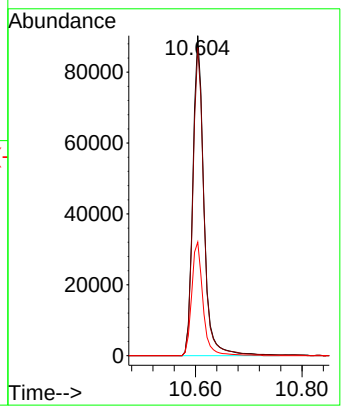


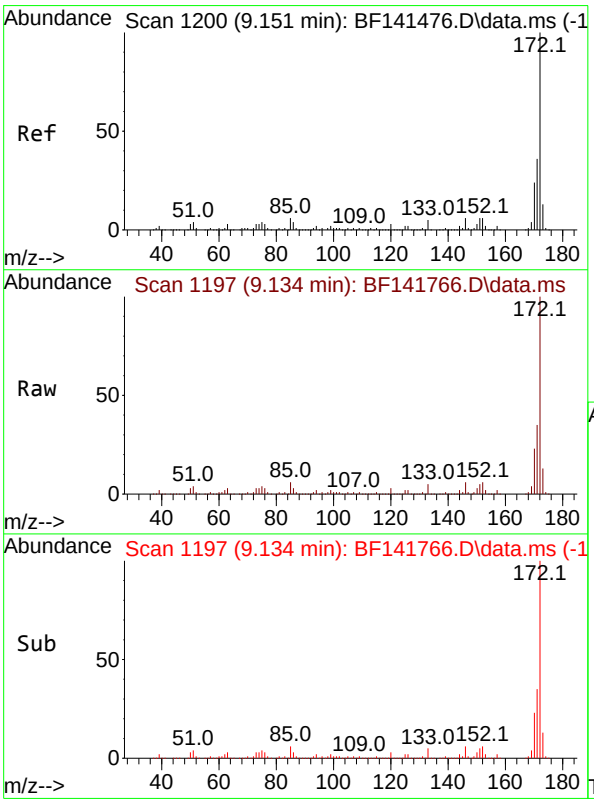
#42
2,4,6-Tribromophenol
Concen: 85.851 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:330 Resp: 130576

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.5	117.7
141	36.4	31.0	46.4

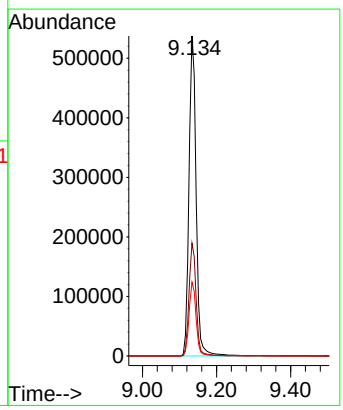


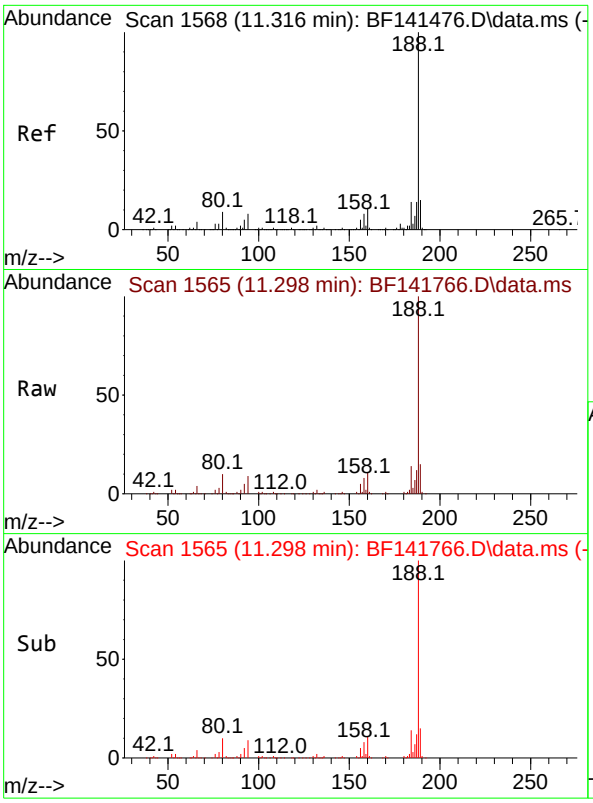


#45
2-Fluorobiphenyl
Concen: 73.004 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:172 Resp: 717455

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.7	43.1
170	23.1	18.9	28.3



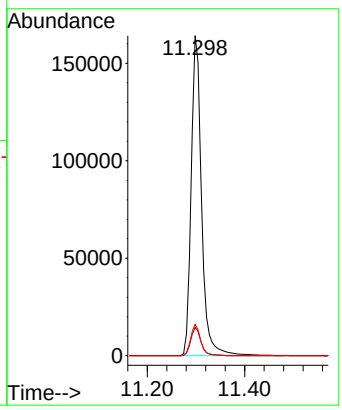


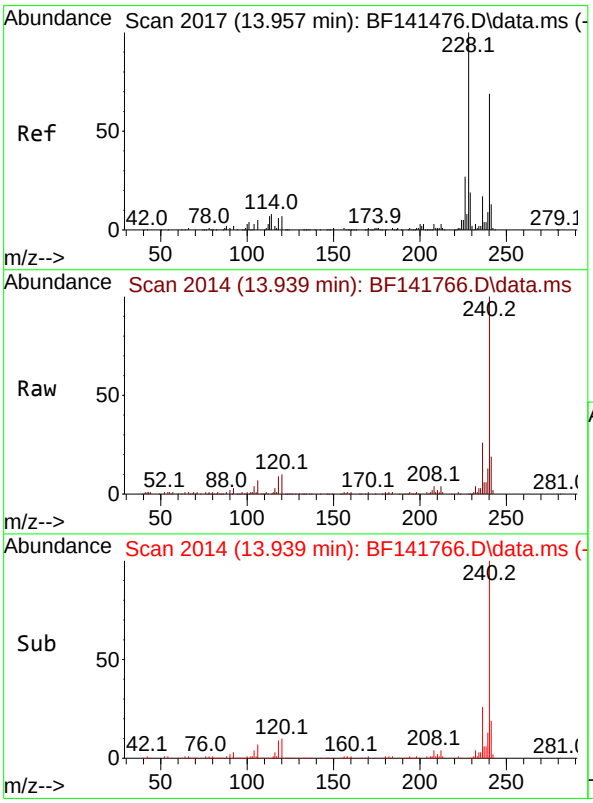
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:188 Resp: 244202

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.8	7.3	10.9

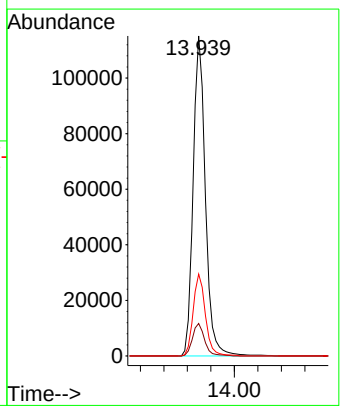


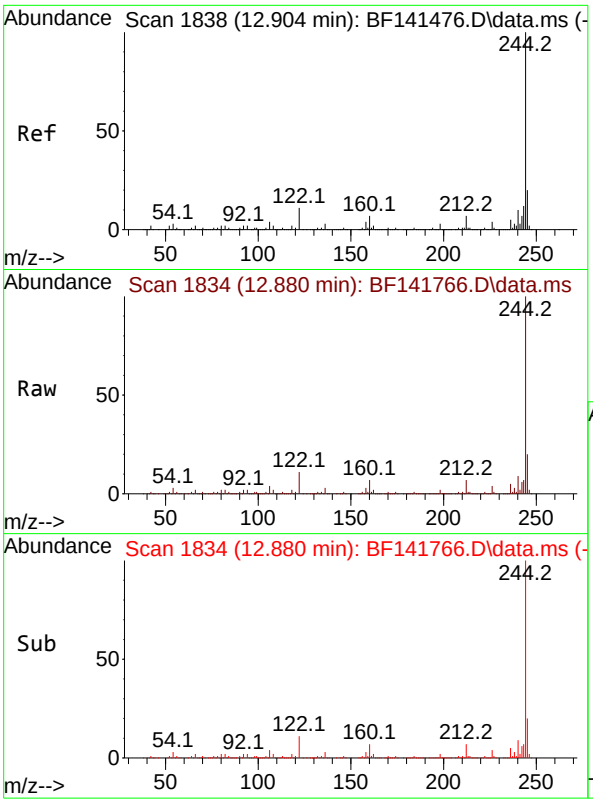


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:240 Resp: 165983

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.0	12.0
236	25.6	19.8	29.8



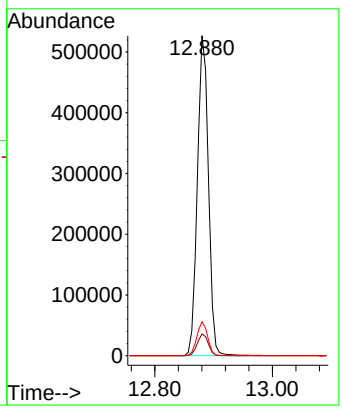


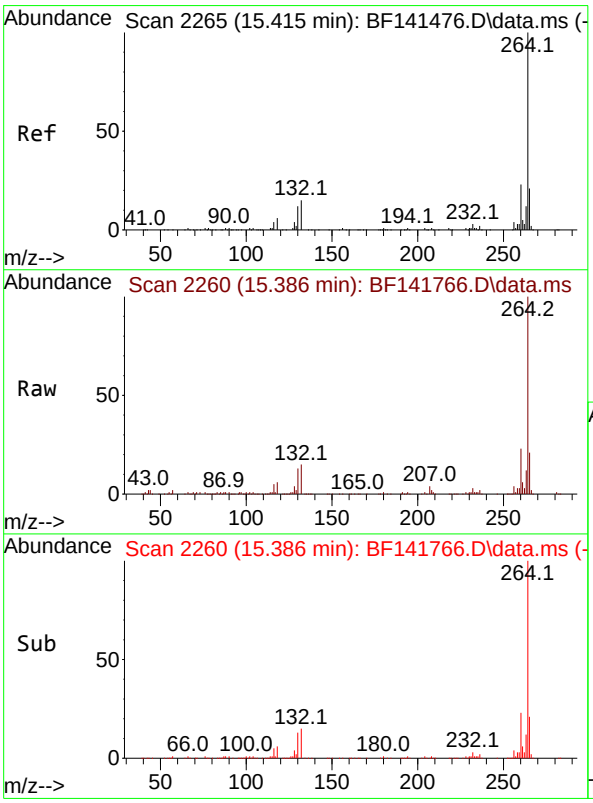
#79
Terphenyl-d14
Concen: 69.847 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:244 Resp: 686743

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.6	8.4	12.6

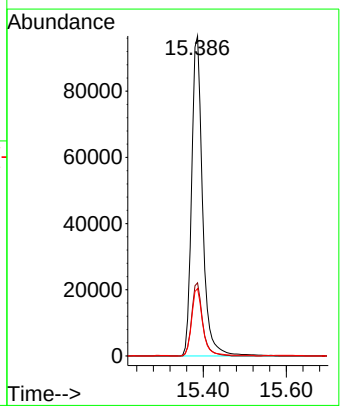




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:264 Resp: 176431

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.0	17.0	25.4



Sample Results: **BF141766.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141766.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.340	28	42	44	rBV	31236	128873	6.32%	0.982%
2	5.410	558	564	586	rBV	1094751	1635295	80.21%	12.455%
3	6.428	732	737	764	rBV	1108126	1671376	81.98%	12.730%
4	6.781	792	797	804	rBV	334262	424685	20.83%	3.235%
5	7.345	887	893	906	rBV	777721	1087593	53.35%	8.284%
6	7.622	934	940	956	rBV	14620	45170	2.22%	0.344%
7	8.063	1002	1015	1034	rBV	390196	593890	29.13%	4.523%
8	8.651	1110	1115	1119	rBV	24145	29350	1.44%	0.224%
9	9.134	1192	1197	1208	rBV	1558902	2038701	100.00%	15.528%
10	9.810	1307	1312	1327	rBV	432528	622861	30.55%	4.744%
11	10.528	1429	1434	1442	rBV	114302	157215	7.71%	1.197%
12	10.604	1442	1447	1471	rVB	727269	1049440	51.48%	7.993%
13	11.298	1560	1565	1581	rVB	401888	585630	28.73%	4.461%
14	11.833	1650	1656	1674	rBV2	41156	108205	5.31%	0.824%
15	12.622	1785	1790	1799	rBV7	9460	26555	1.30%	0.202%
16	12.880	1829	1834	1845	rBV	1377181	1787256	87.67%	13.613%
17	13.780	1982	1987	2006	rBV2	51639	166360	8.16%	1.267%
18	13.939	2006	2014	2026	rVB	308480	453621	22.25%	3.455%
19	14.769	2151	2155	2161	rVB	42564	58922	2.89%	0.449%
20	15.386	2254	2260	2270	rBV	257415	458242	22.48%	3.490%

Sum of corrected areas: 13129240

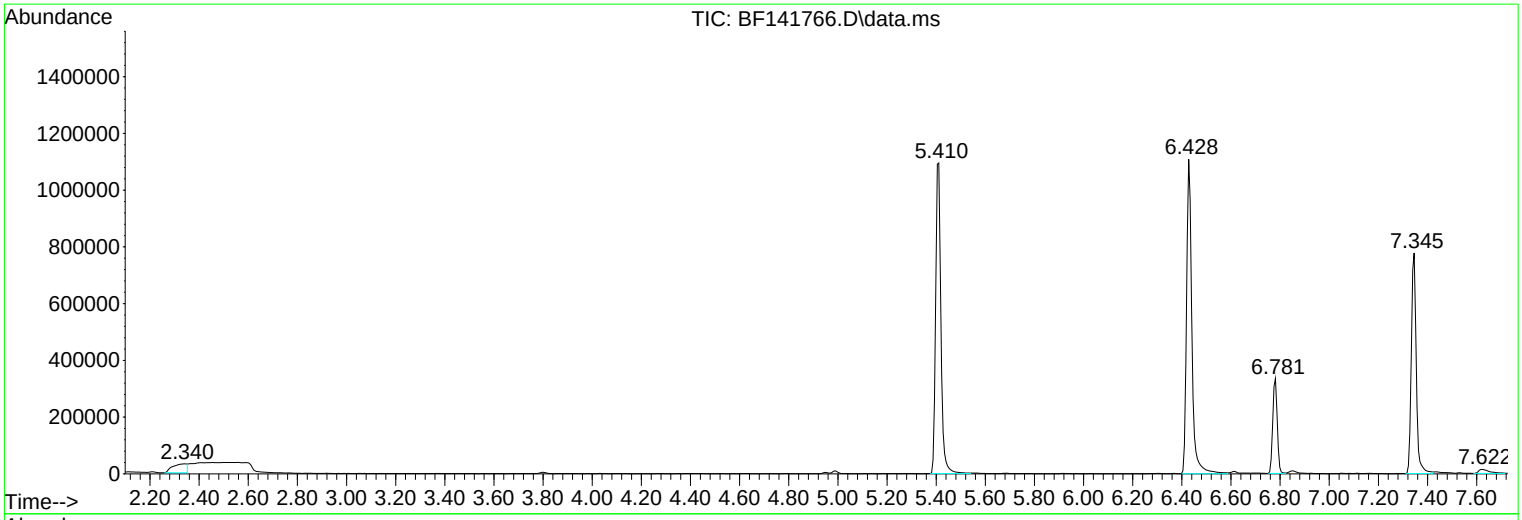
Sample Results: **BF141766.D**

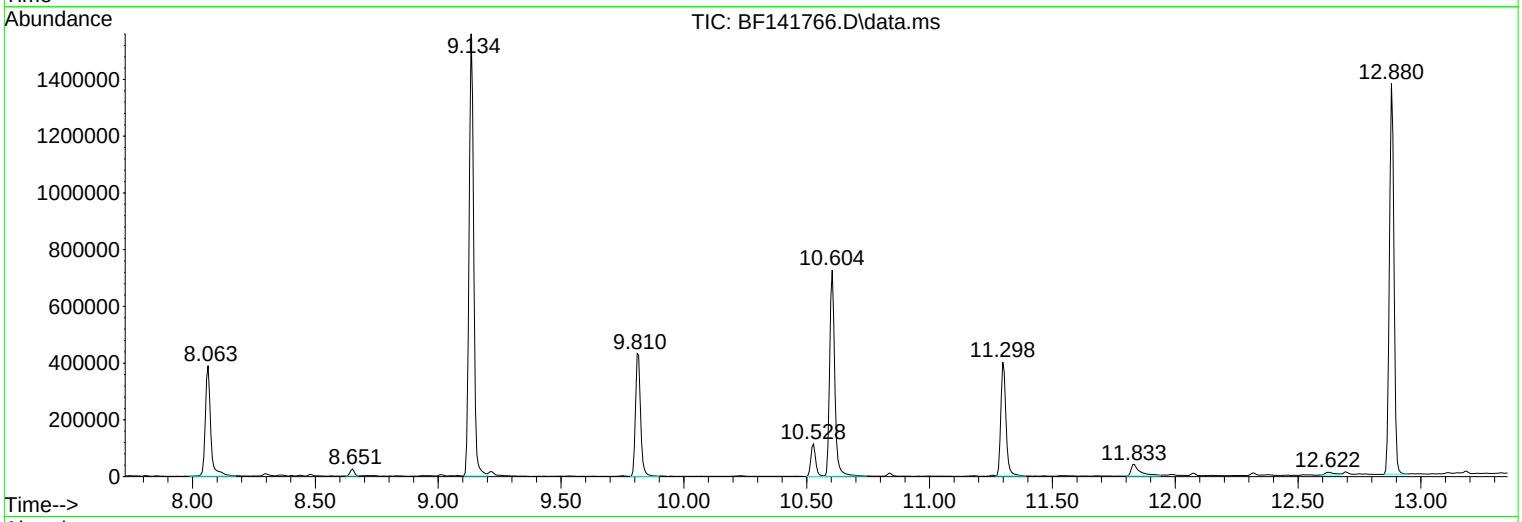
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

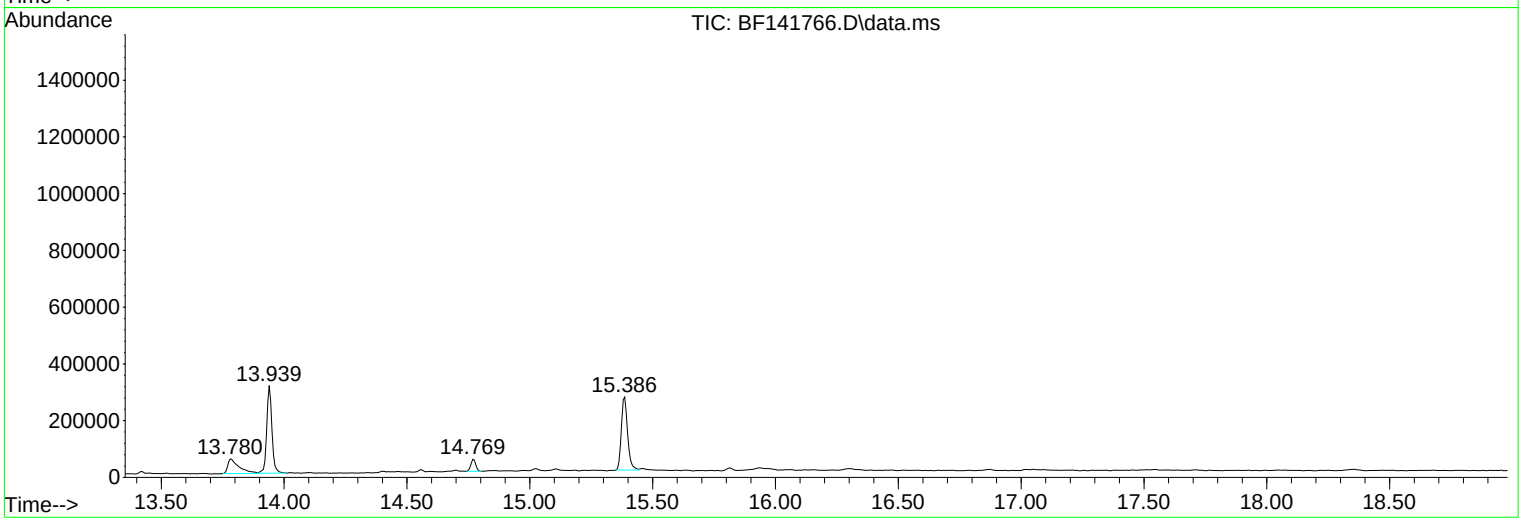
Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

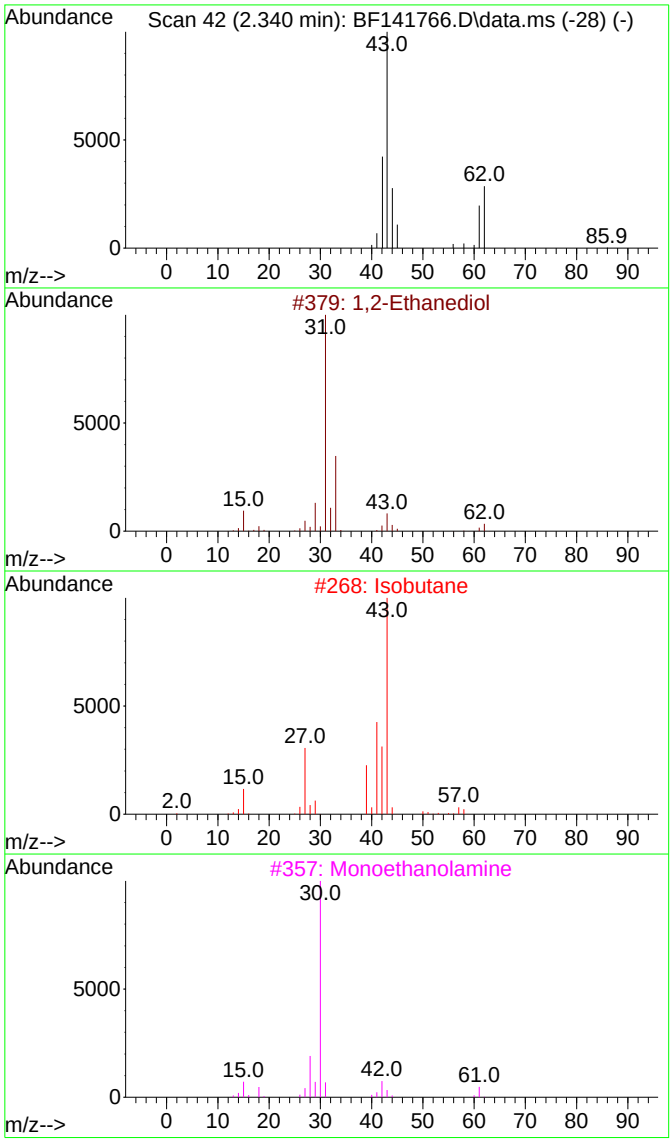
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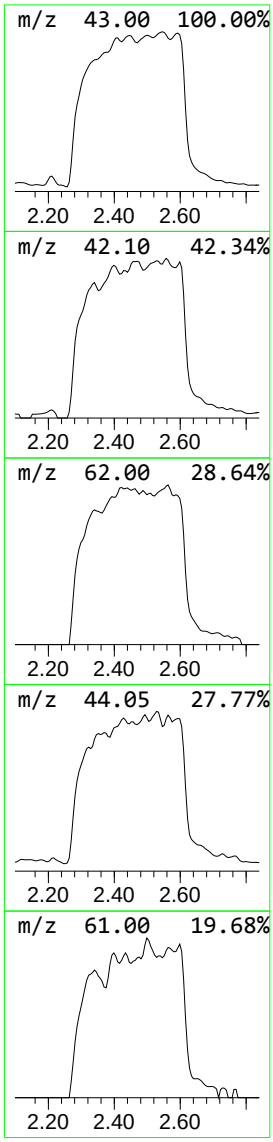
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Peak Number 1 unknown2.340 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.340	6.07 ng	128873	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Ethanediol	62	C2H6O2	000107-21-1	9
2	Isobutane	58	C4H10	000075-28-5	4
3	Monoethanolamine	61	C2H7NO	000141-43-5	3
4	Peroxide, dimethyl	62	C2H6O2	000690-02-8	3
5	Diglycolamine	105	C4H11NO2	000929-06-6	2





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

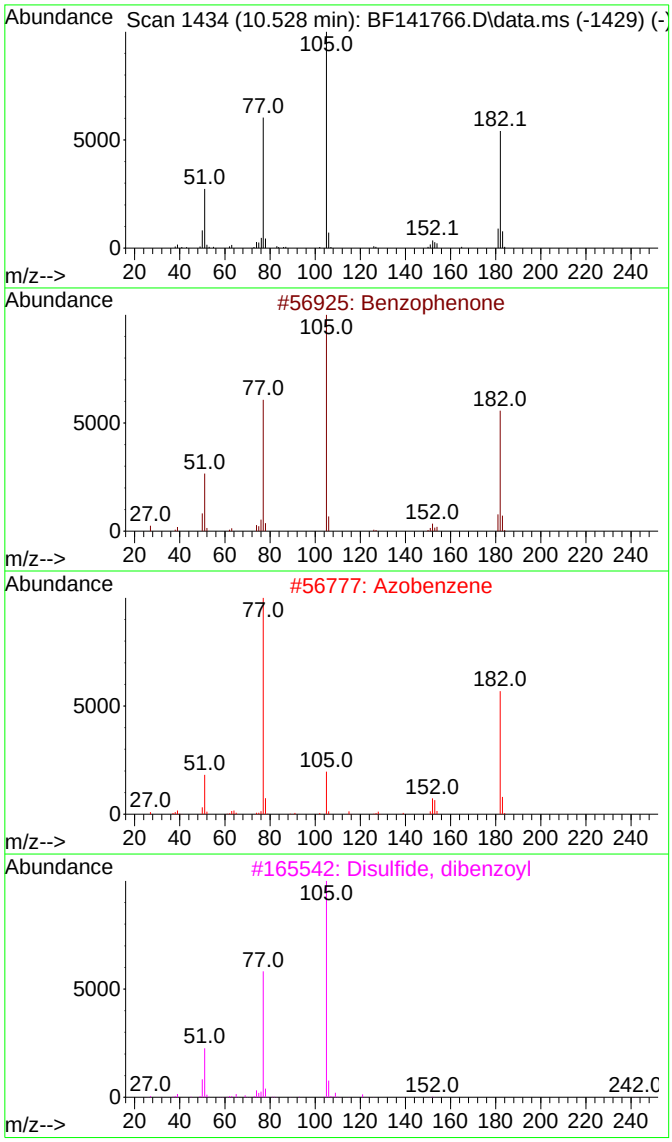
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

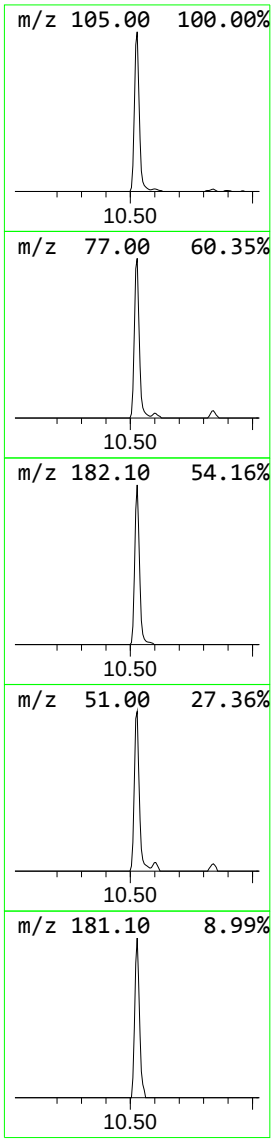
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Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	5.05 ng	157215	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On    : 25 Feb 2025  16:05
Operator  : RC/JU
Sample    : Q1415-04
Misc      :
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
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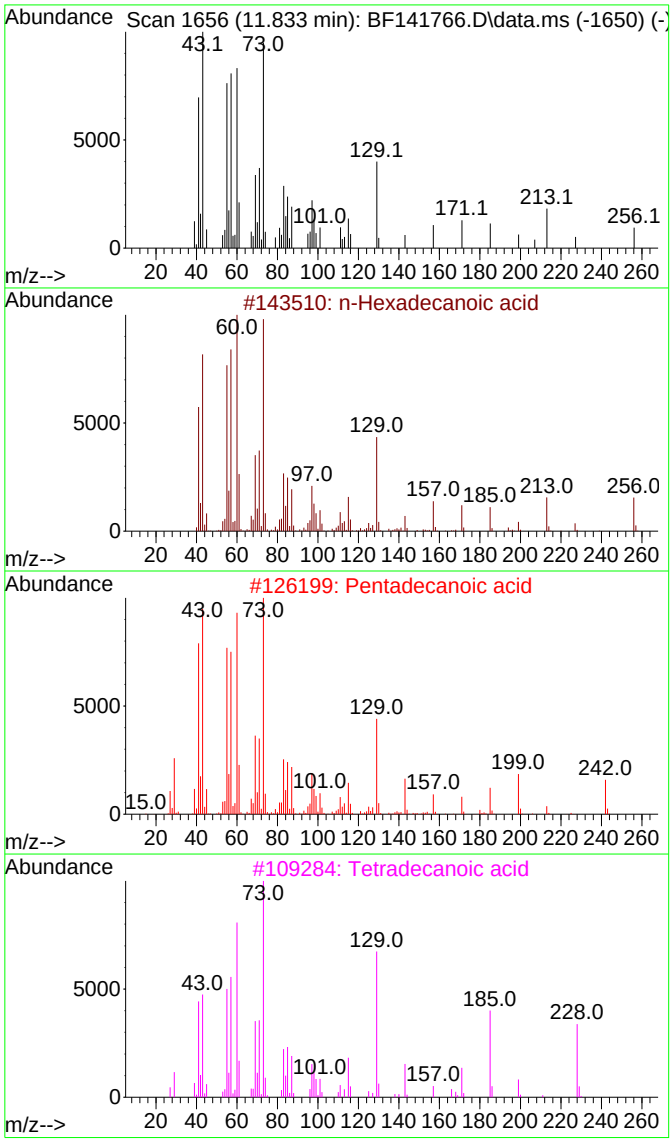
Instrument :
BNA_F
ClientSampleId :
B-172-SB02

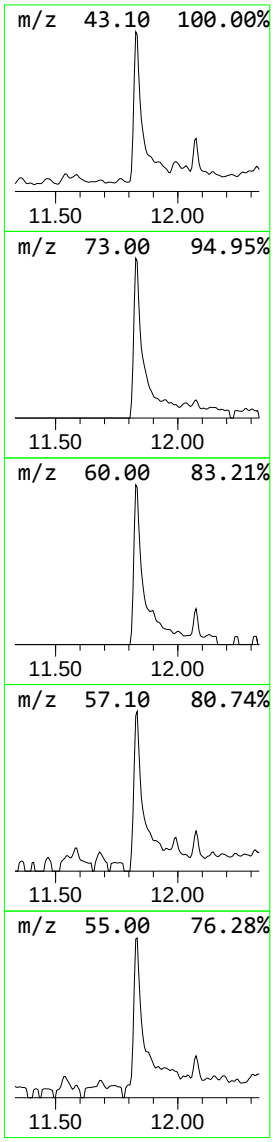
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	3.70 ng	108205	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
4	n-Decanoic acid	172	C10H20O2	000334-48-5	53
5	Tridecanoic acid	214	C13H26O2	000638-53-9	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

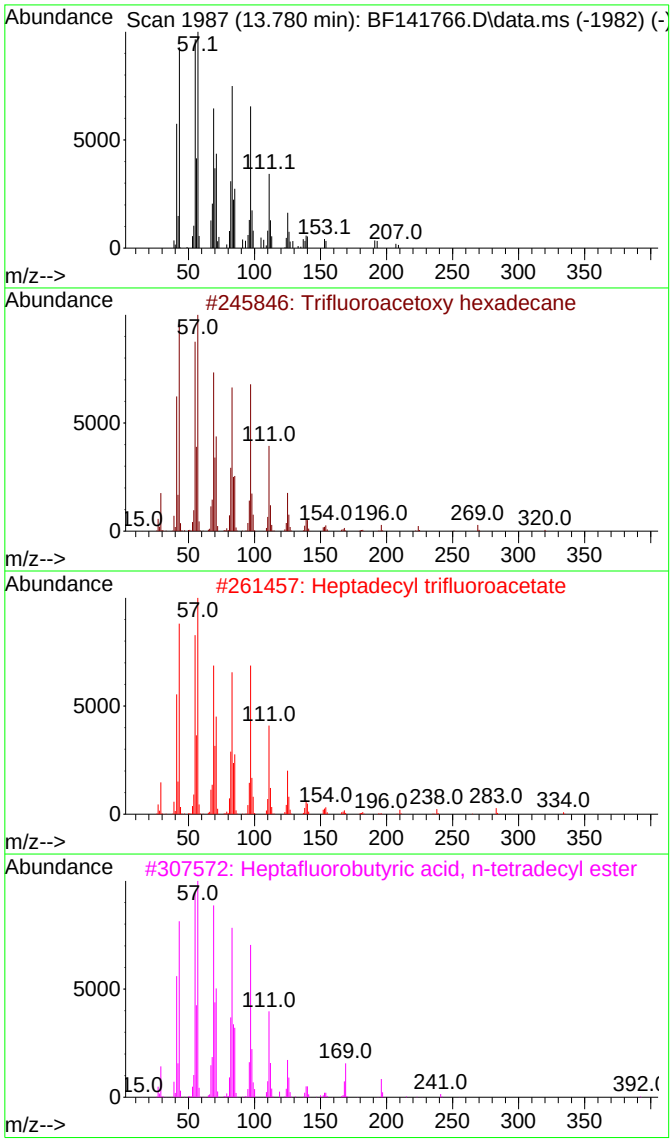
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

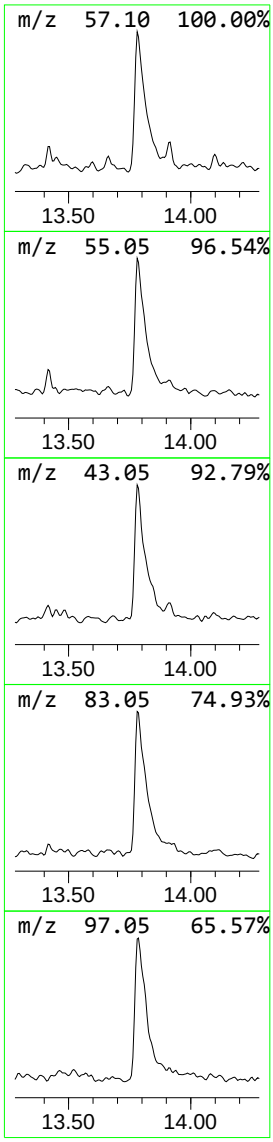
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Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.780	7.33 ng	166360	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	95
3	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94
4	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

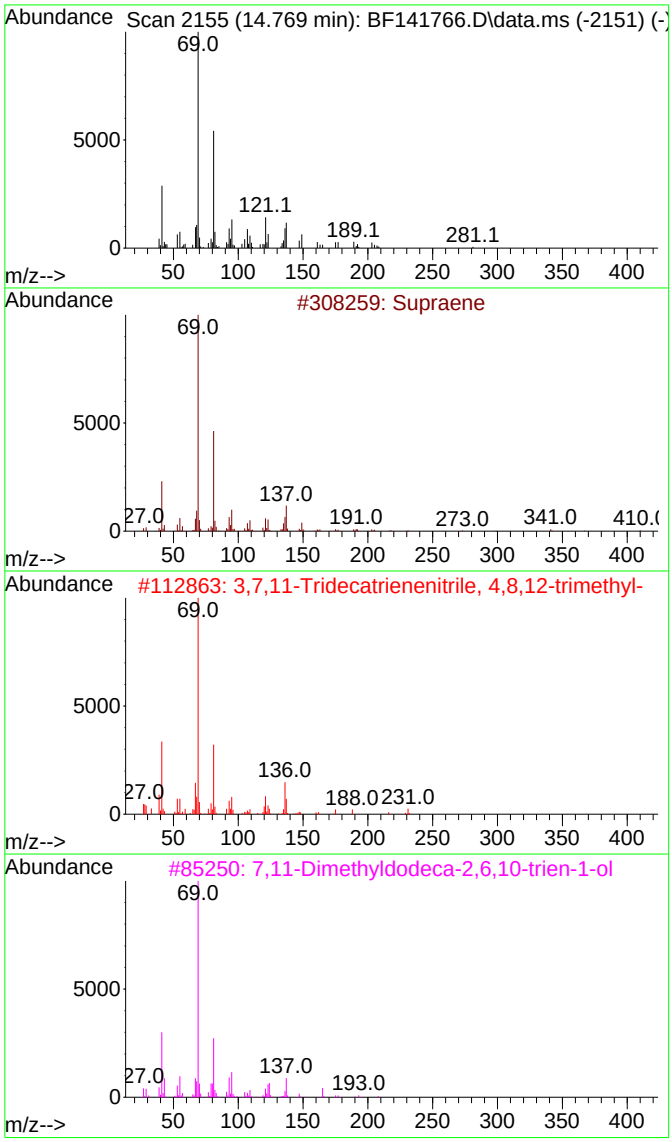
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

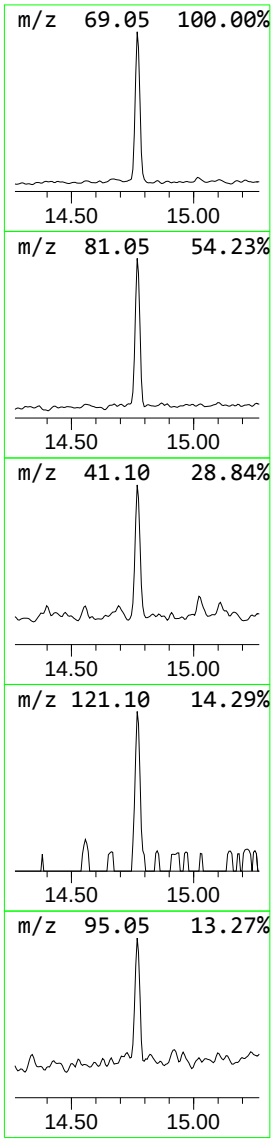
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Peak Number 5 Supraene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	2.57 ng	58922	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	87
2	3,7,11-Tridecatrienenitrile, 4,8...	231	C16H25N	006006-01-5	72
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	72
4	Umbelliprenin	366	C24H30O3	023838-17-7	72
5	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown2.340	2.340	6.1	ng	128873	1	6.781	424685	20.0
Benzophenone	10.528	5.0	ng	157215	3	9.810	622861	20.0
n-Hexadecanoic ...	11.833	3.7	ng	108205	4	11.298	585630	20.0
Trifluoroacetox...	13.780	7.3	ng	166360	5	13.939	453621	20.0
Supraene	14.769	2.6	ng	58922	6	15.386	458242	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Time: Feb 27 00:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

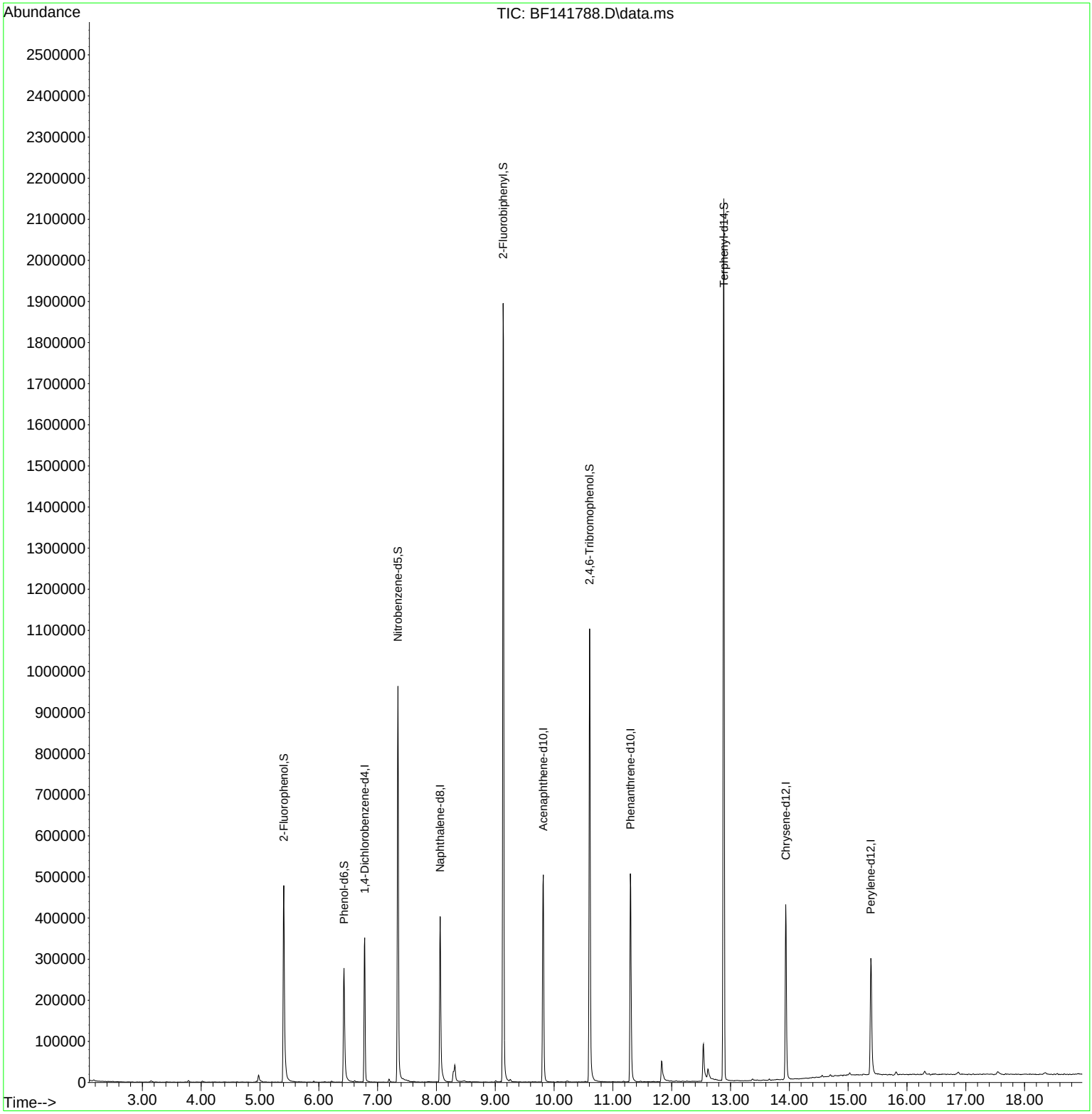
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	78152	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	311819	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	173235	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	306559	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	234571	20.000	ng	-0.02
86) Perylene-d12	15.386	264	196458	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	232019	46.543	ng	0.00
7) Phenol-d6	6.428	99	165420	26.255	ng	-0.01
23) Nitrobenzene-d5	7.345	82	461089	77.127	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	200755	115.362	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	892377	79.362	ng	-0.02
79) Terphenyl-d14	12.886	244	1101084	79.243	ng	-0.02
Target Compounds						Qvalue

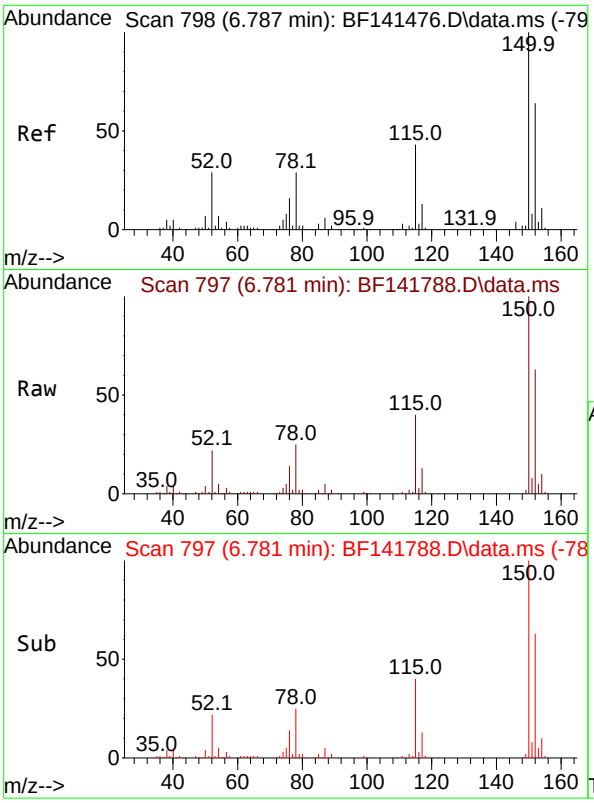
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Time: Feb 27 00:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



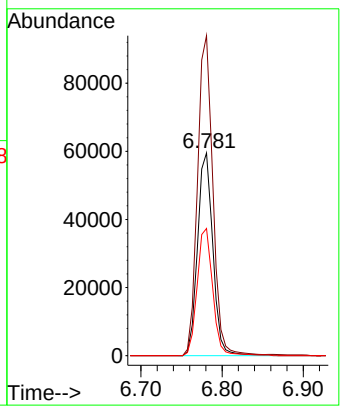


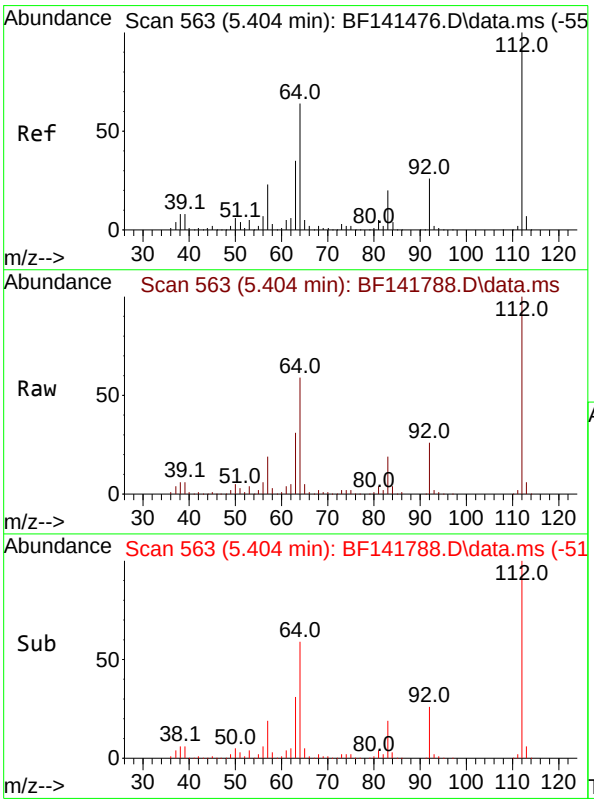
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:152 Resp: 78152

Ion	Ratio	Lower	Upper
152	100		
150	157.8	125.0	187.4
115	62.7	53.6	80.4

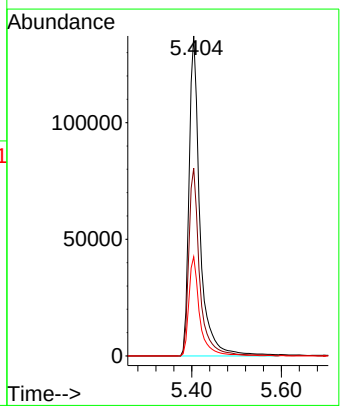


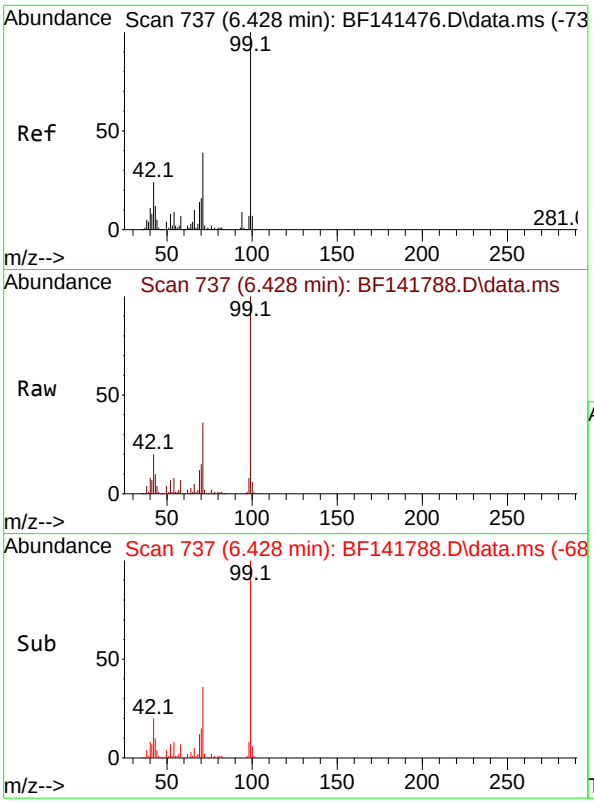


#5
2-Fluorophenol
Concen: 46.543 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:112 Resp: 232019

Ion	Ratio	Lower	Upper
112	100		
64	58.7	51.1	76.7
63	31.0	28.4	42.6



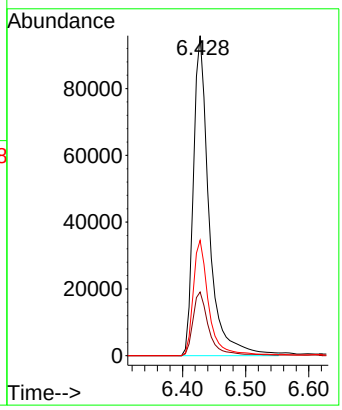


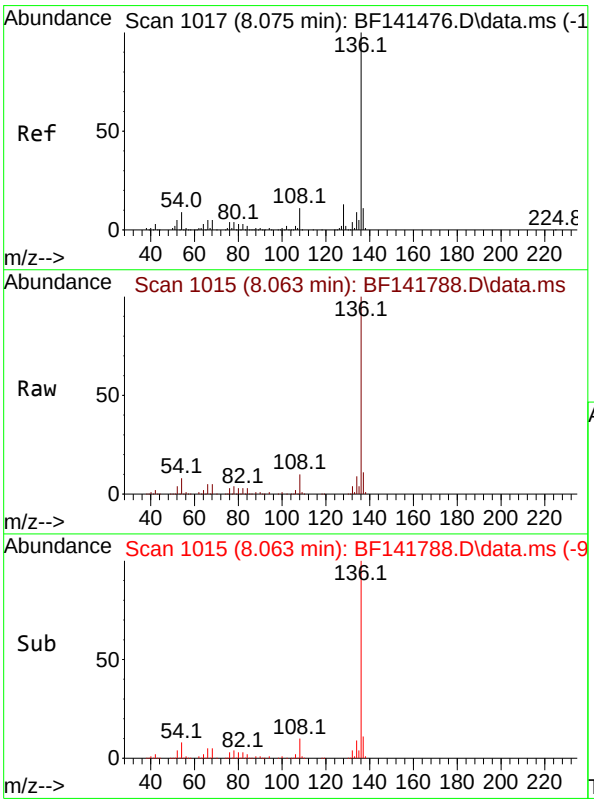
#7
Phenol-d6
Concen: 26.255 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion: 99 Resp: 165420

Ion	Ratio	Lower	Upper
99	100		
42	19.9	19.1	28.7
71	36.1	31.1	46.7

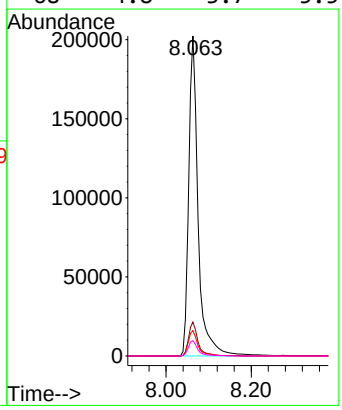


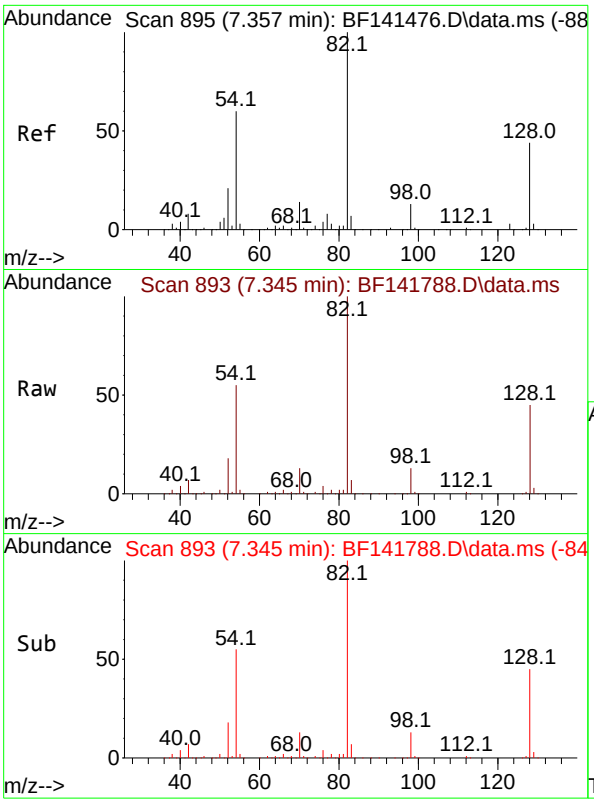


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:136 Resp: 311819

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	7.9	7.2	10.8
68	4.8	3.7	5.5



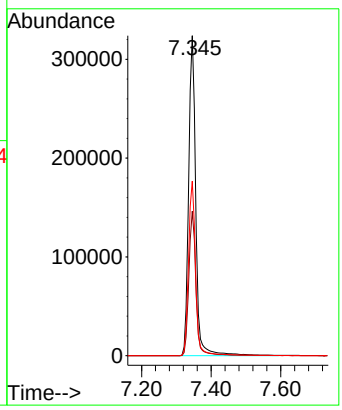


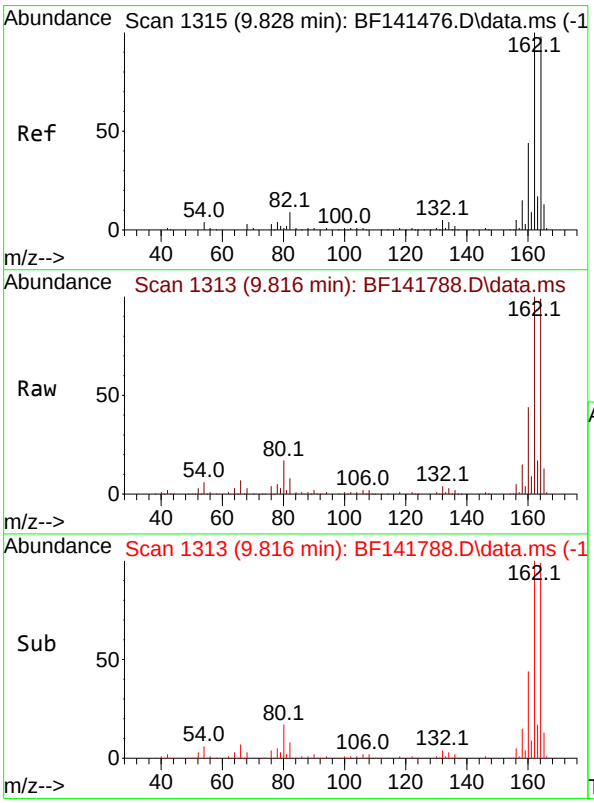
#23
Nitrobenzene-d5
Concen: 77.127 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion: 82 Resp: 461089

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.8	52.2
54	54.6	48.2	72.4

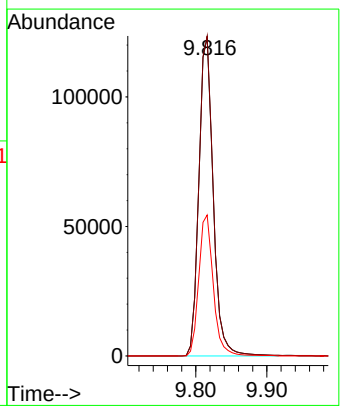


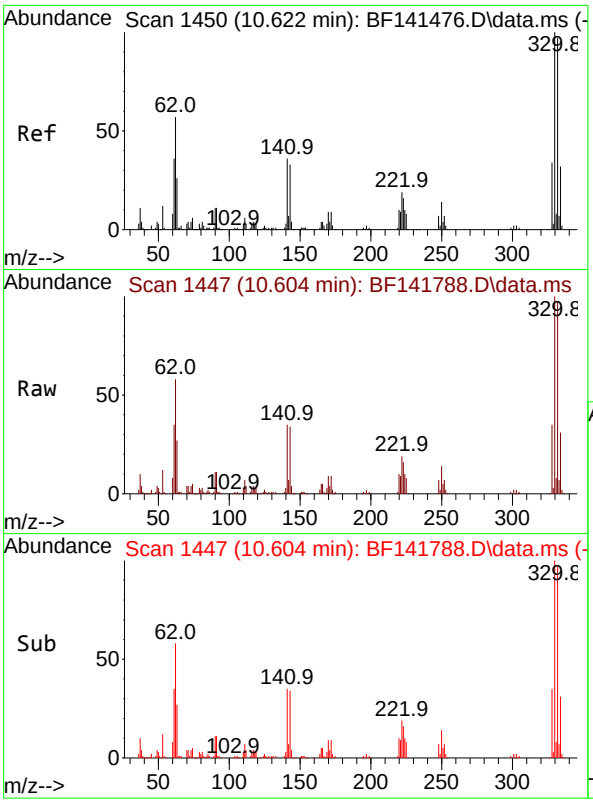


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:164 Resp: 173235

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.3	121.9
160	44.3	35.9	53.9



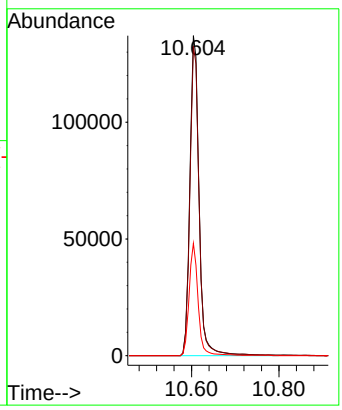


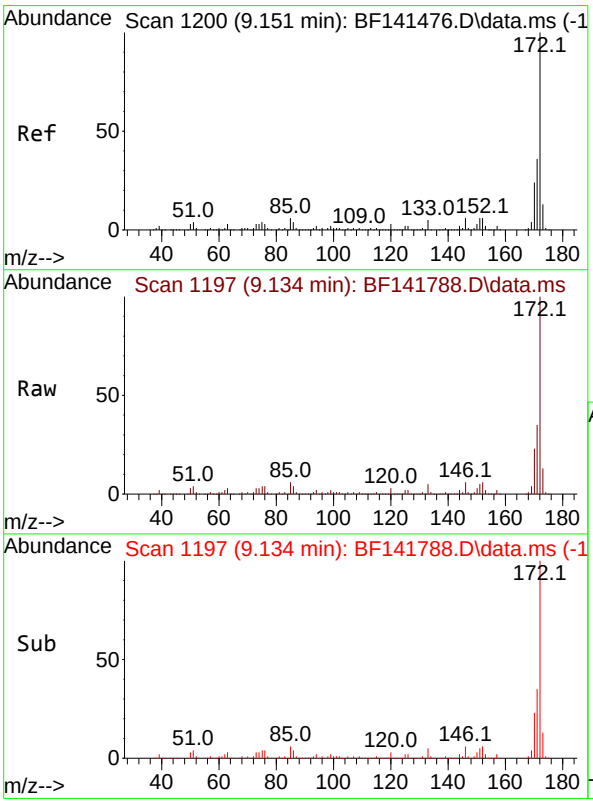
#42
2,4,6-Tribromophenol
Concen: 115.362 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:330 Resp: 200755

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.5	117.7
141	34.2	31.0	46.4

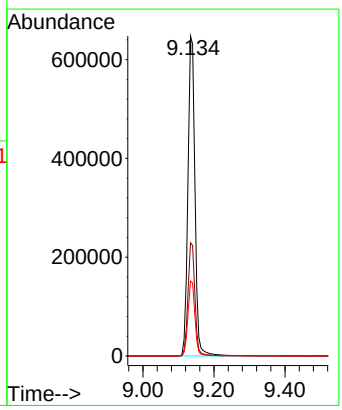


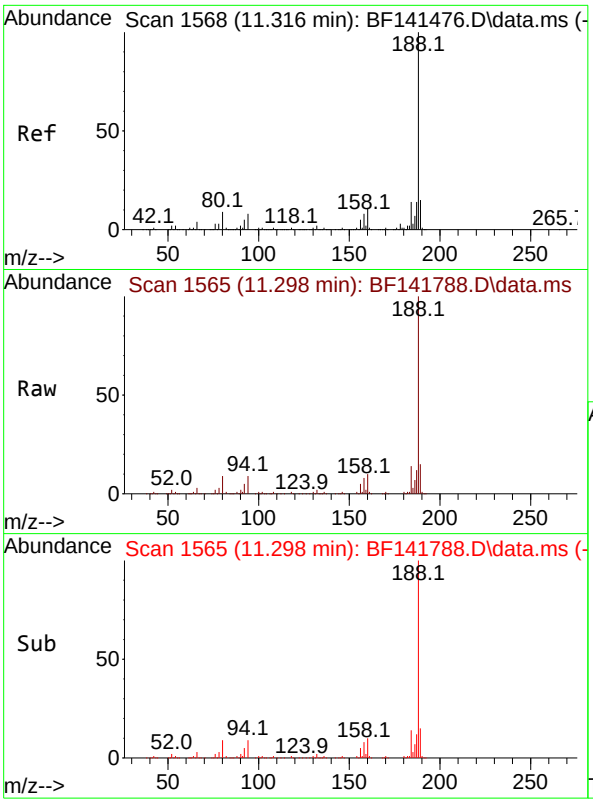


#45
2-Fluorobiphenyl
Concen: 79.362 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:172 Resp: 892377

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.4	18.9	28.3



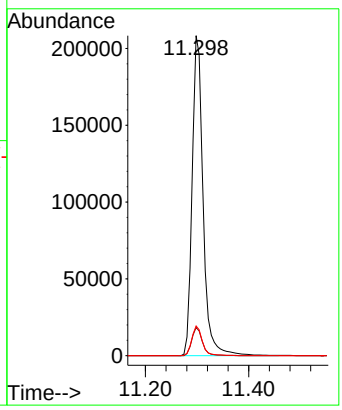


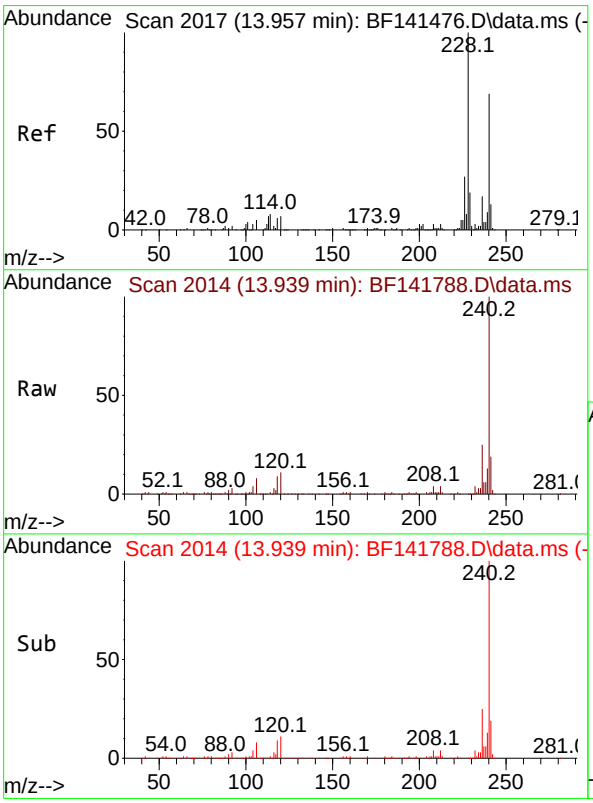
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:188 Resp: 306559

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.3	7.3	10.9

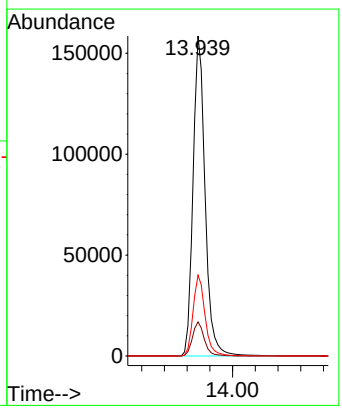


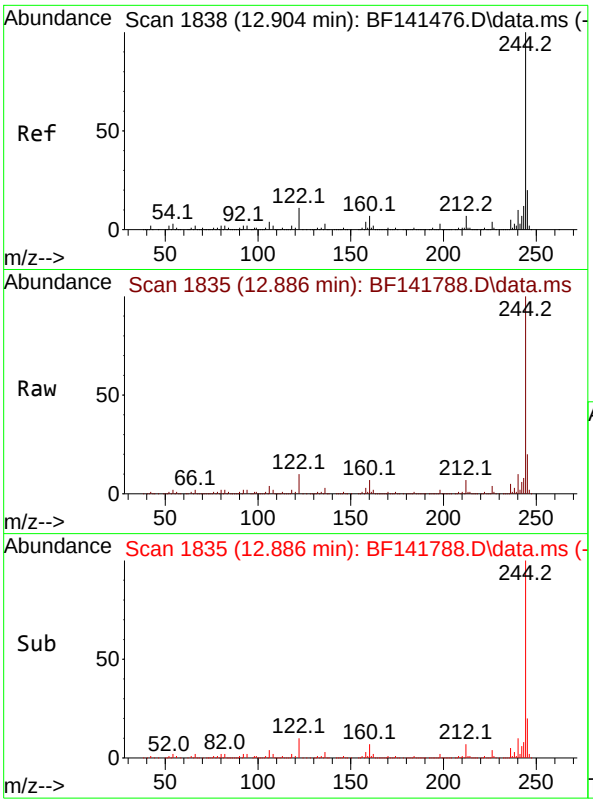


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:240 Resp: 234571

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.0	12.0
236	25.3	19.8	29.8



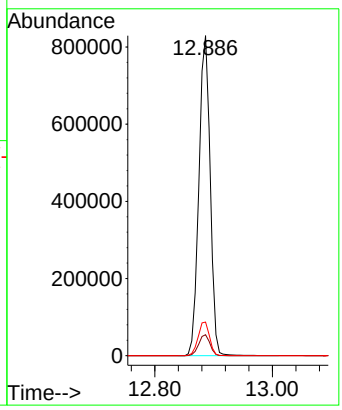


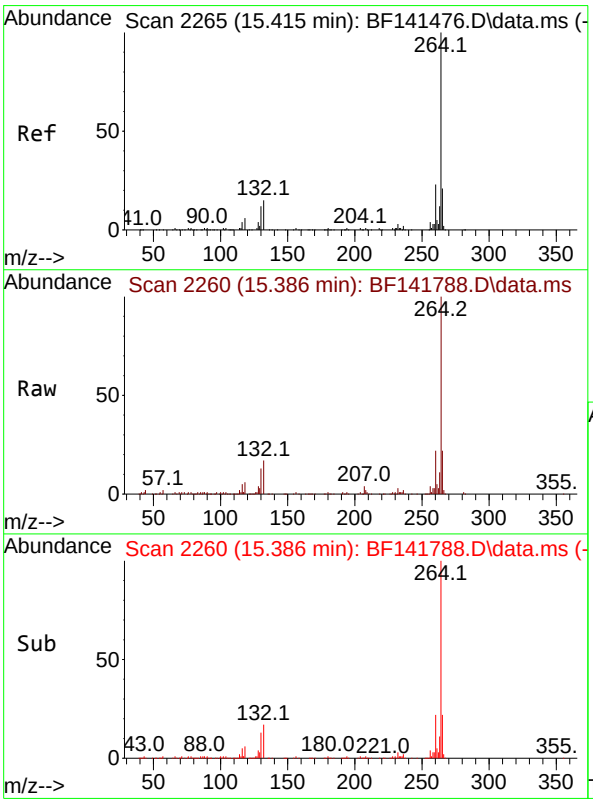
#79
Terphenyl-d14
Concen: 79.243 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:244 Resp: 1101084

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.5	8.4	12.6

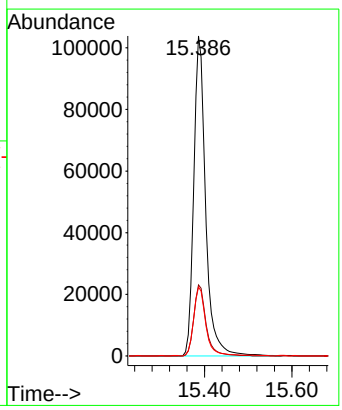




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:264 Resp: 196458

Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.6	28.0
265	21.5	17.0	25.4



Sample Results: **BF141788.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141788.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.975	486	490	505	rVB	16929	33106	1.16%	0.241%
2	5.404	558	563	589	rBV	478236	799345	28.07%	5.831%
3	6.428	732	737	763	rBV	276821	474851	16.67%	3.464%
4	6.781	792	797	814	rBV	350934	462079	16.22%	3.371%
5	7.345	887	893	906	rBV	963157	1338827	47.01%	9.766%
6	8.063	1010	1015	1040	rBV	402458	615736	21.62%	4.491%
7	8.310	1054	1057	1070	rVB	39914	67560	2.37%	0.493%
8	9.134	1192	1197	1214	rBV	1893343	2552022	89.61%	18.615%
9	9.816	1307	1313	1327	rBV	503972	712203	25.01%	5.195%
10	10.604	1441	1447	1463	rBV	1102615	1565766	54.98%	11.421%
11	11.298	1560	1565	1585	rVB	506269	731240	25.68%	5.334%
12	11.828	1650	1655	1678	rBV2	50153	120146	4.22%	0.876%
13	12.539	1770	1776	1785	rBV	90552	177689	6.24%	1.296%
14	12.616	1785	1789	1801	rVB2	25254	56572	1.99%	0.413%
15	12.886	1829	1835	1840	rBV	2144470	2848049	100.00%	20.774%
16	13.939	2006	2014	2029	rBV	426092	630298	22.13%	4.598%
17	15.386	2254	2260	2274	rBV	282525	524004	18.40%	3.822%

Sum of corrected areas: 13709493

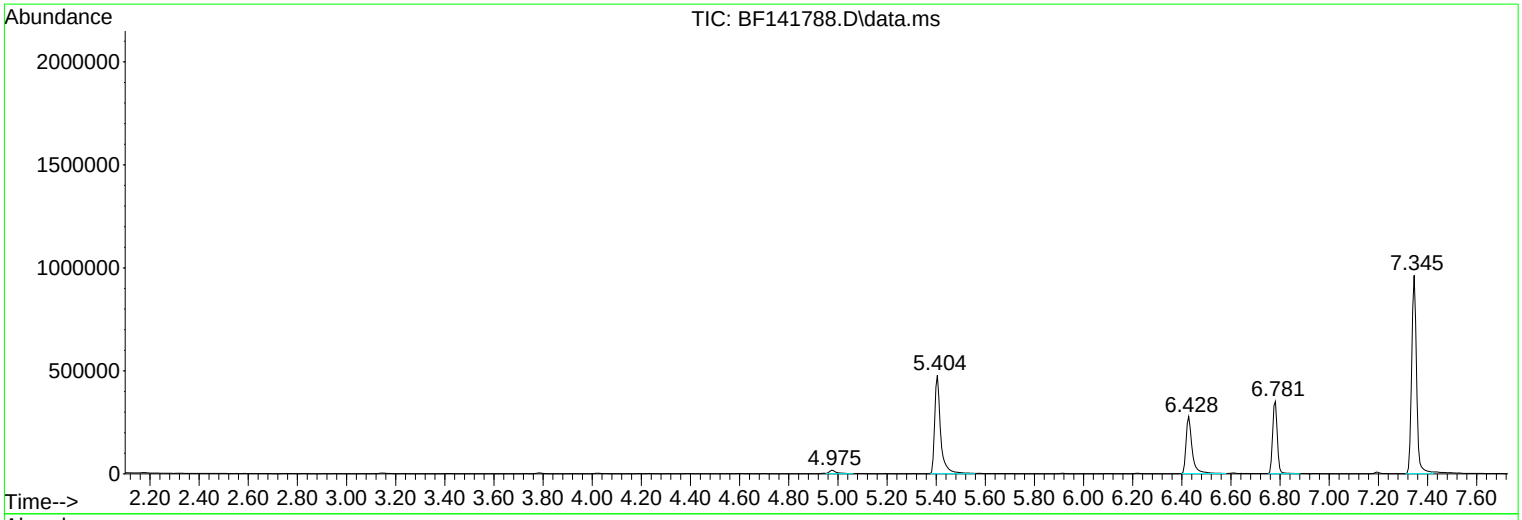
Sample Results: **BF141788.D**

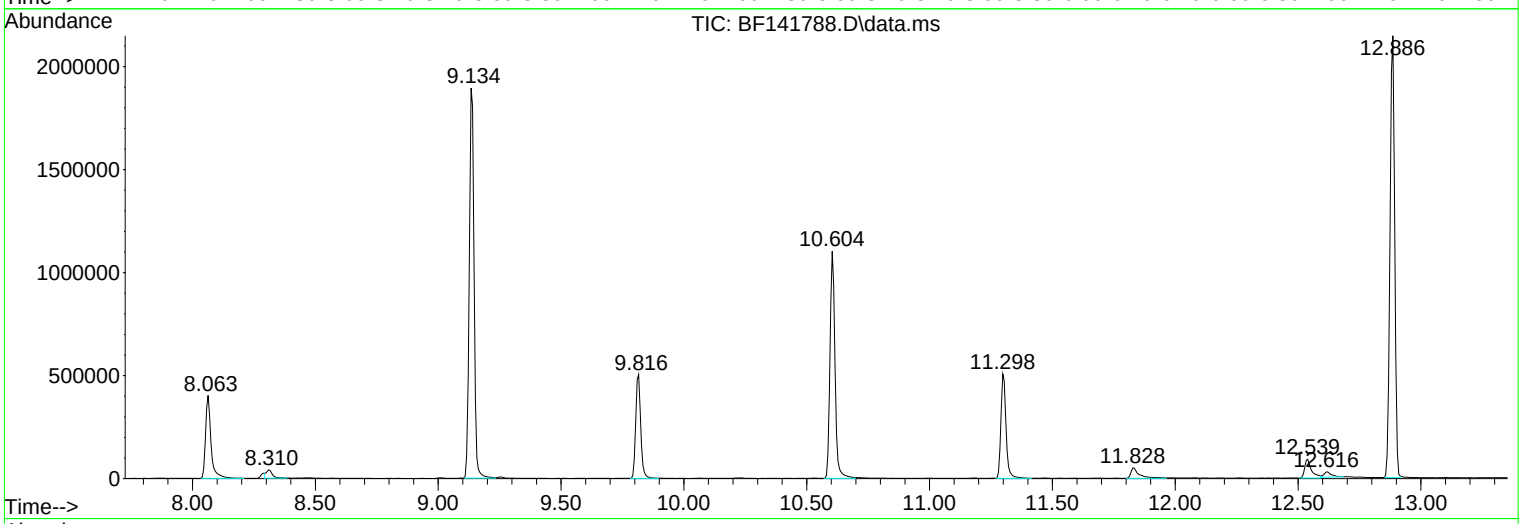
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

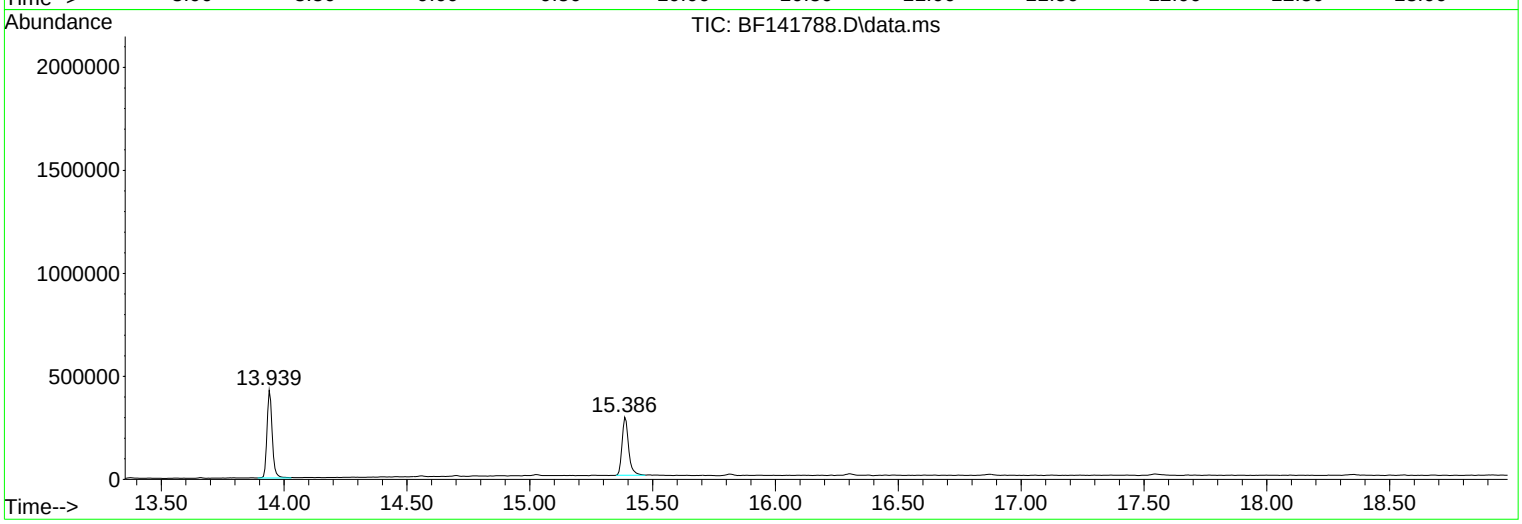
Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

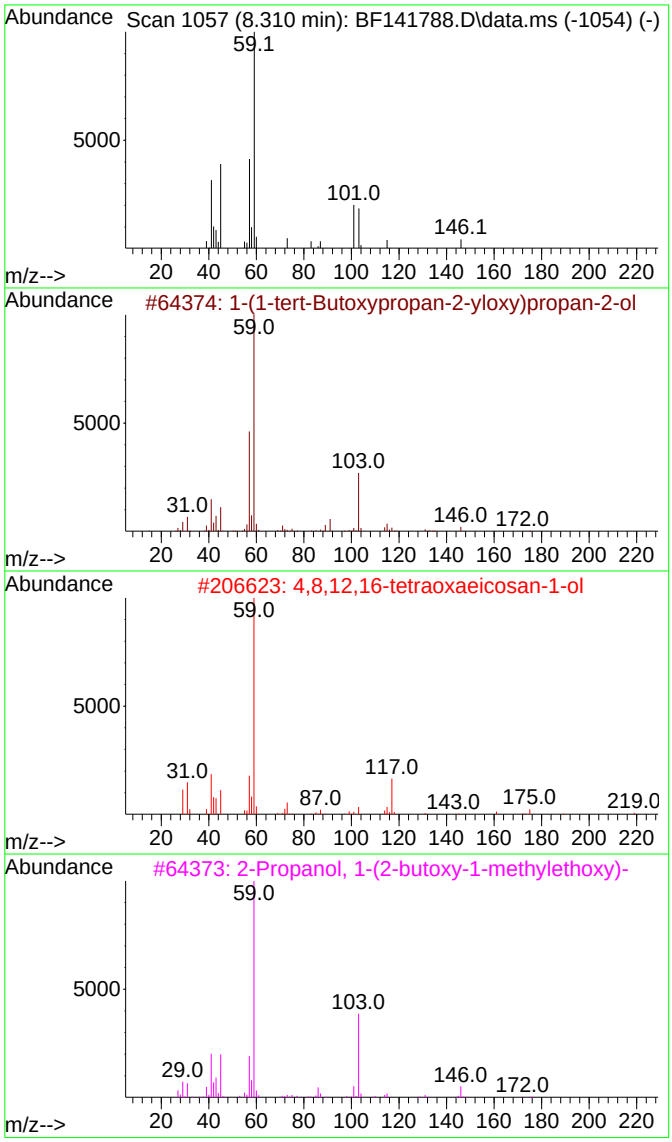
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

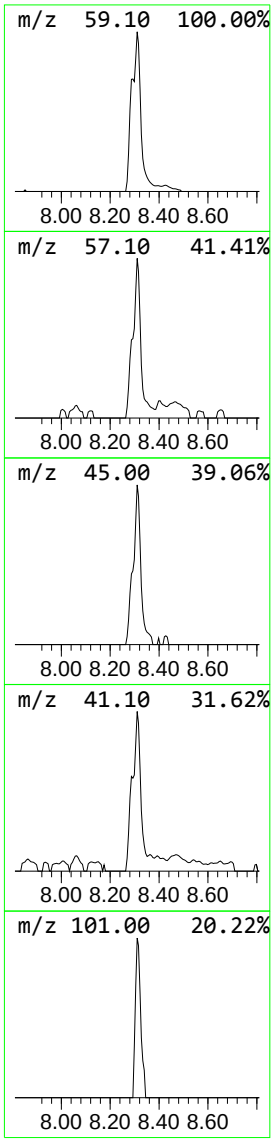
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 1-(1-tert-Butoxypropan-2-yl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.310	2.19 ng	67560	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(1-tert-Butoxypropan-2-yloxy)p...	190	C10H22O3	132739-31-2	50
2	4,8,12,16-tetraoxaeicosan-1-ol	306	C16H34O5	1010397-63-6	50
3	2-Propanol, 1-(2-butoxy-1-methyl...	190	C10H22O3	029911-28-2	45
4	Butanamide, 3,3-dimethyl-	115	C6H13NO	000926-04-5	43
5	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

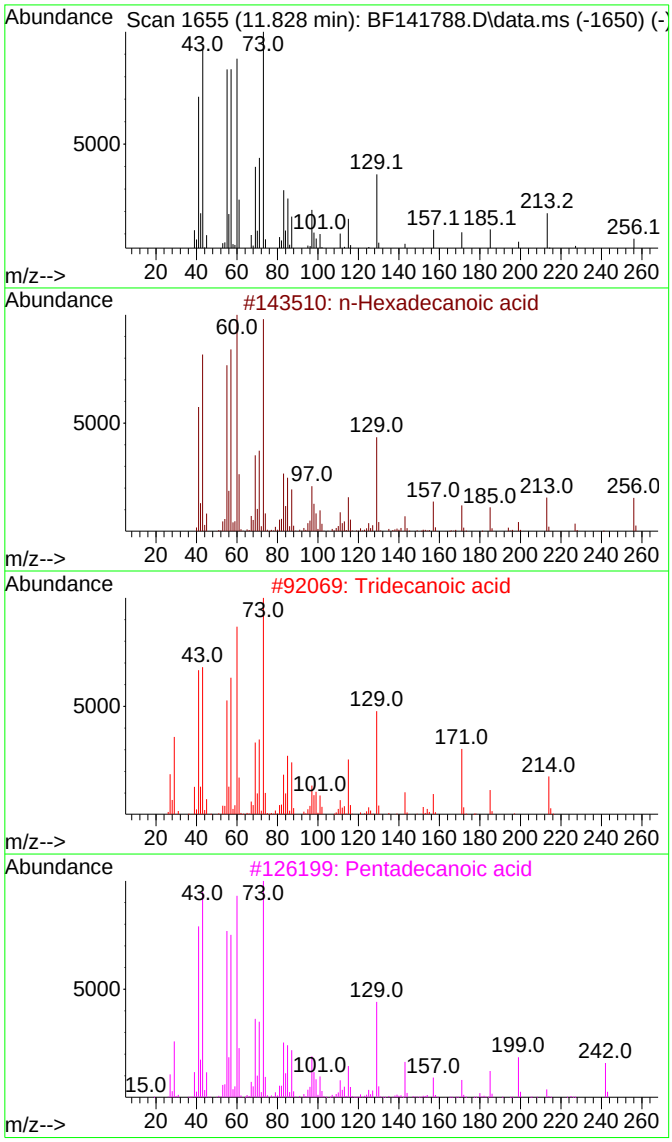
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

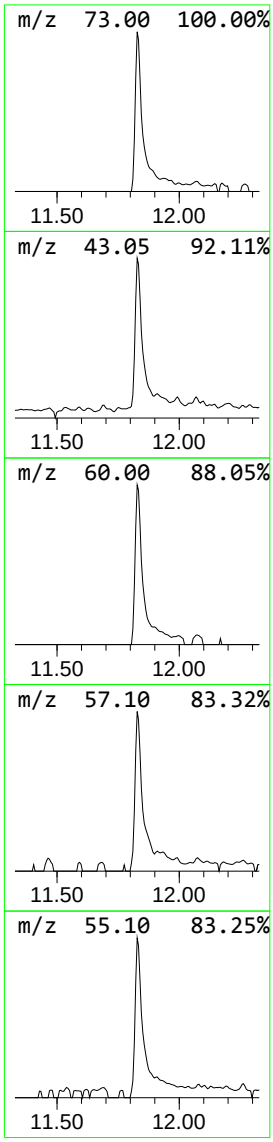
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.828	3.29 ng	120146	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

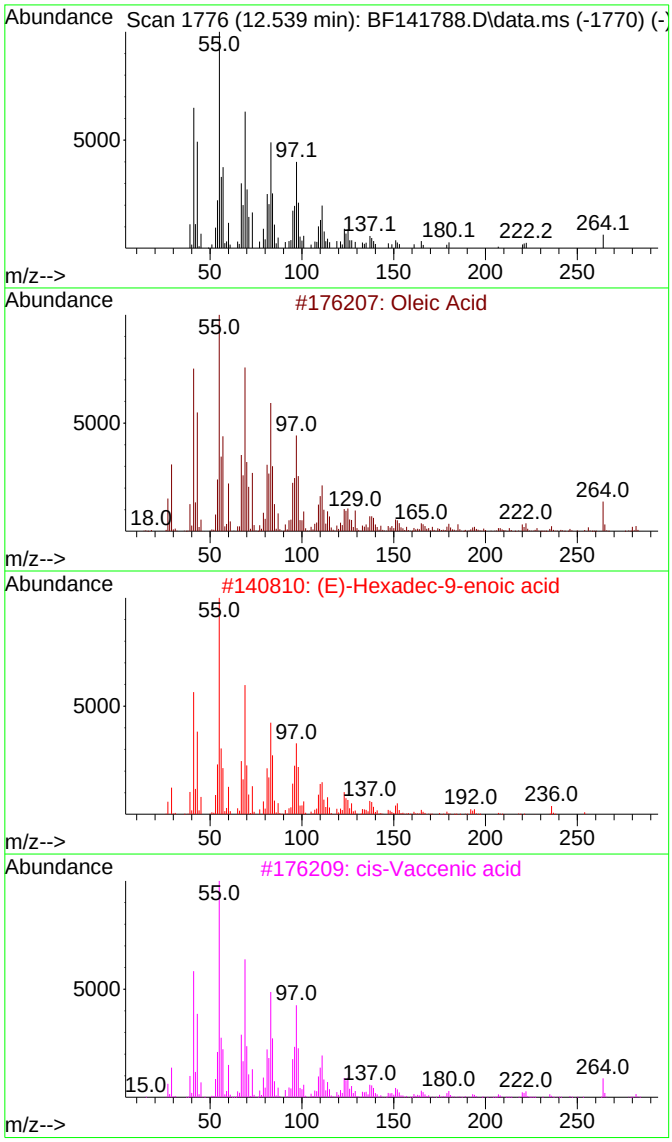
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

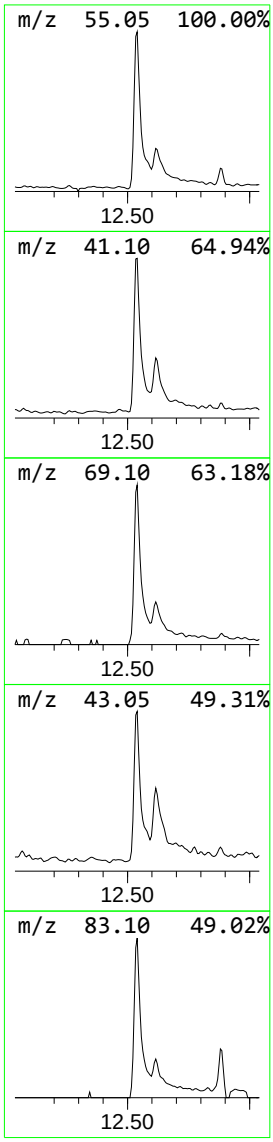
****

Peak Number 3 Oleic Acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.539	4.86 ng	177689	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oleic Acid	282	C18H34O2	000112-80-1	91
2	(E)-Hexadec-9-enoic acid	254	C16H30O2	010030-73-6	90
3	cis-Vaccenic acid	282	C18H34O2	000506-17-2	90
4	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	87
5	14-Pentadecenoic acid	240	C15H28O2	017351-34-7	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-(1-tert-Butox...	8.310	2.2	ng	67560	2	8.063	615736	20.0
n-Hexadecanoic ...	11.828	3.3	ng	120146	4	11.298	731240	20.0
Oleic Acid	12.539	4.9	ng	177689	4	11.298	731240	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Time: Feb 26 17:55:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

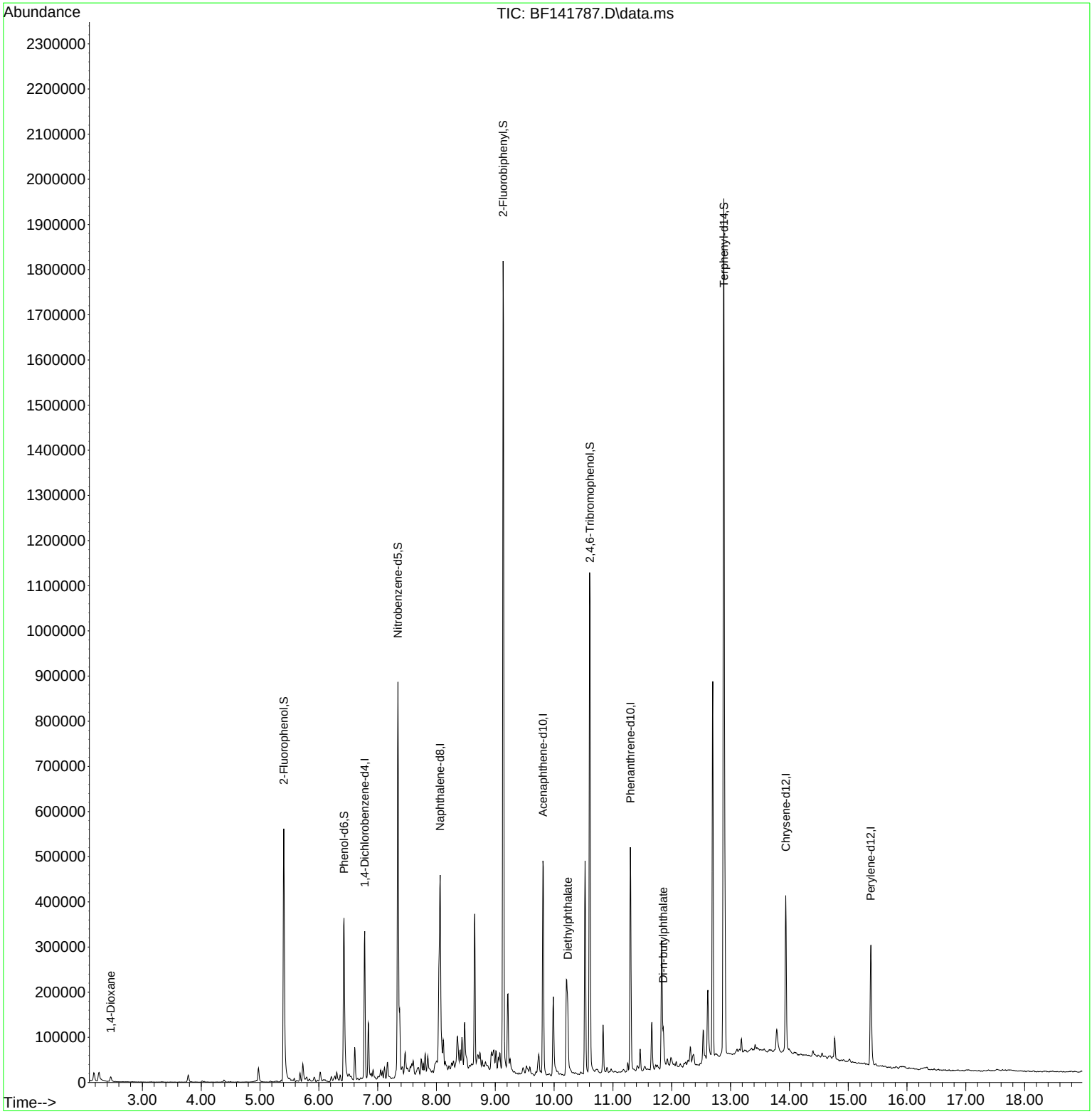
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	70131	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	281804	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	154242	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	262674	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	181385	20.000	ng	-0.02
86) Perylene-d12	15.386	264	166658	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	256729	57.390	ng	0.00
7) Phenol-d6	6.428	99	210736	37.272	ng	-0.01
23) Nitrobenzene-d5	7.345	82	400696	74.164	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	188302	121.530	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	807667	80.674	ng	-0.02
79) Terphenyl-d14	12.886	244	947562	88.191	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.463	88	6291	3.494	ng	99
60) Diethylphthalate	10.233	149	50289	4.881	ng	100
74) Di-n-butylphthalate	11.857	149	42344	2.804	ng	100

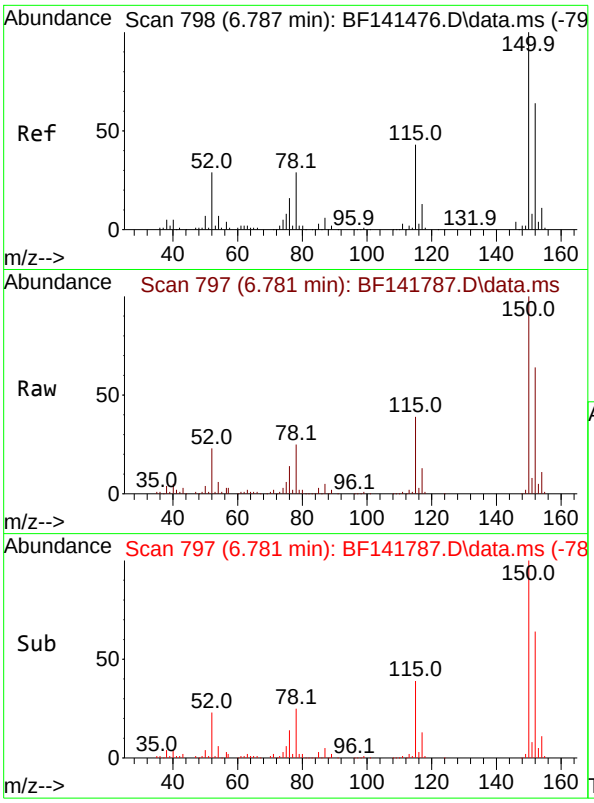
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Time: Feb 26 17:55:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



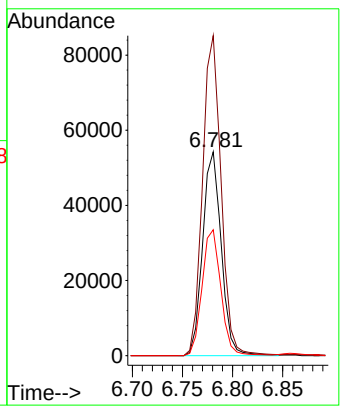


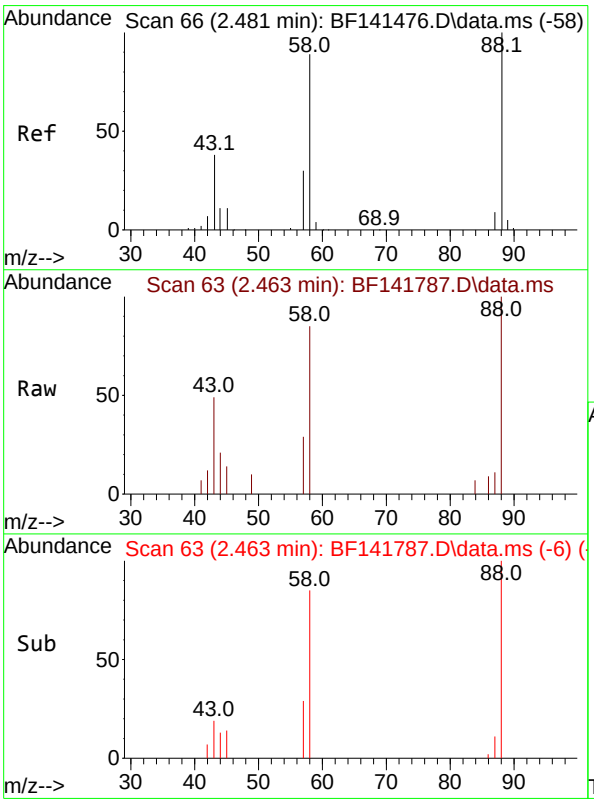
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:152 Resp: 70131

Ion	Ratio	Lower	Upper
152	100		
150	157.0	125.0	187.4
115	61.8	53.6	80.4

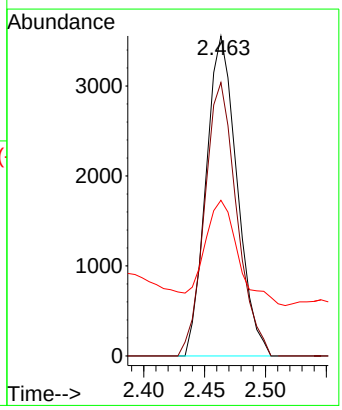


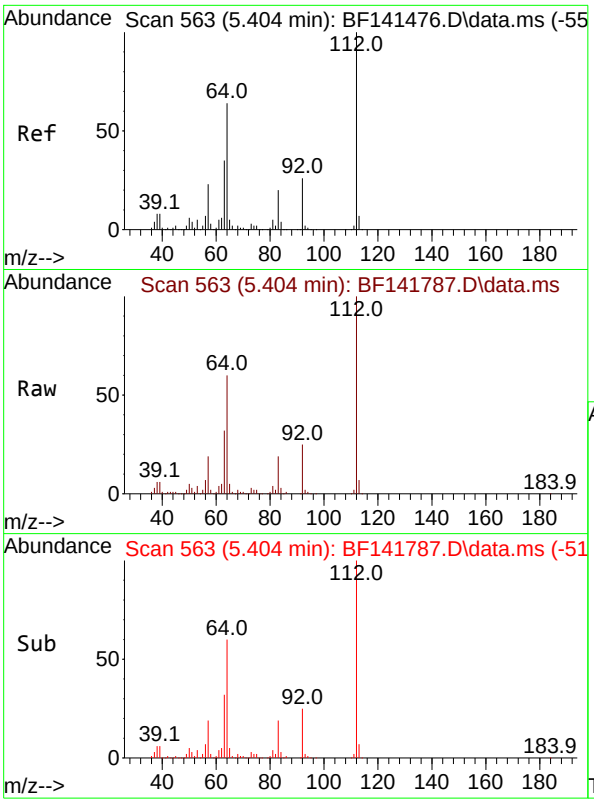


#2
1,4-Dioxane
Concen: 3.494 ng
RT: 2.463 min Scan# 63
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion: 88 Resp: 6291

Ion	Ratio	Lower	Upper
88	100		
58	88.7	71.1	106.7
43	35.7	30.6	46.0



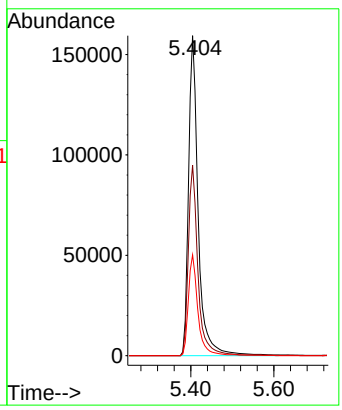


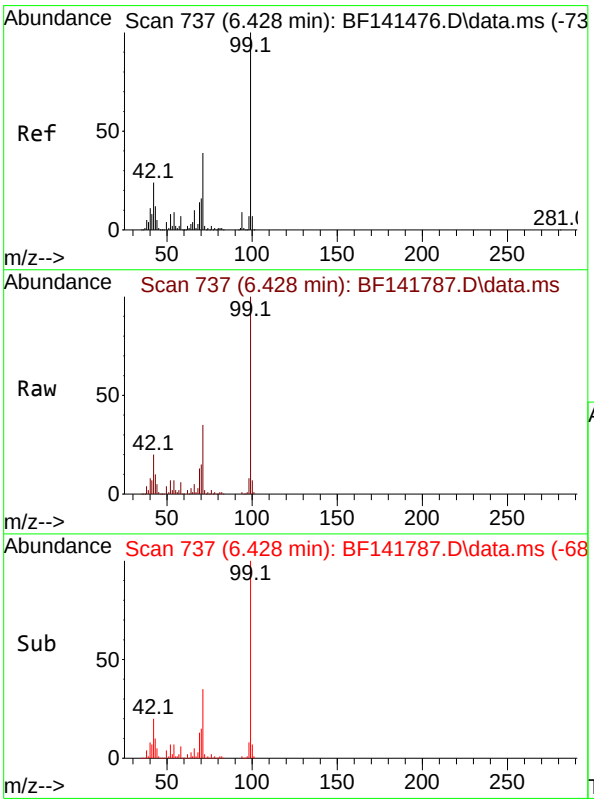
#5
2-Fluorophenol
Concen: 57.390 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:112 Resp: 256729

Ion	Ratio	Lower	Upper
112	100		
64	59.6	51.1	76.7
63	31.5	28.4	42.6

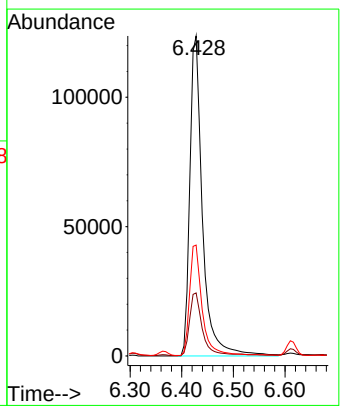


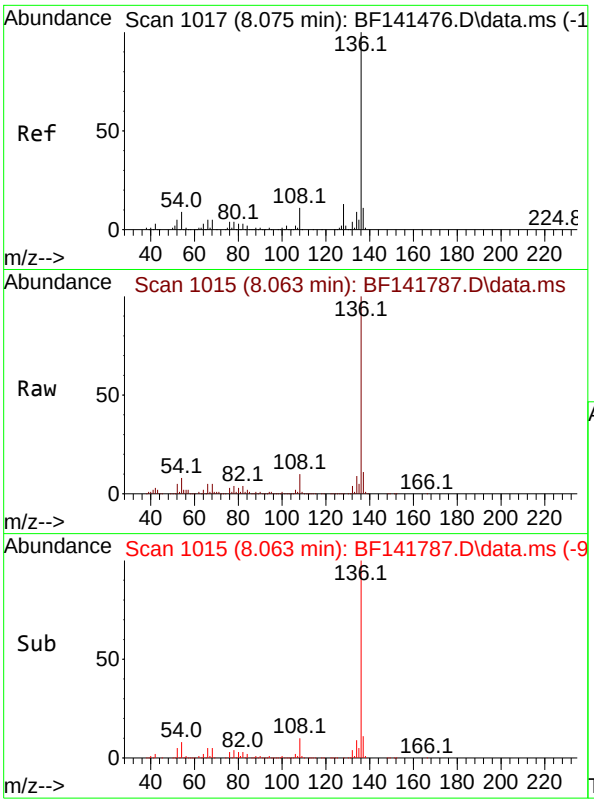


#7
Phenol-d6
Concen: 37.272 ng
RT: 6.428 min Scan# 737
Delta R.T. -0.012 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion: 99 Resp: 210736

Ion	Ratio	Lower	Upper
99	100		
42	19.7	19.1	28.7
71	34.7	31.1	46.7



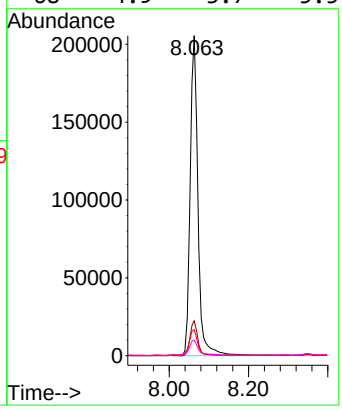


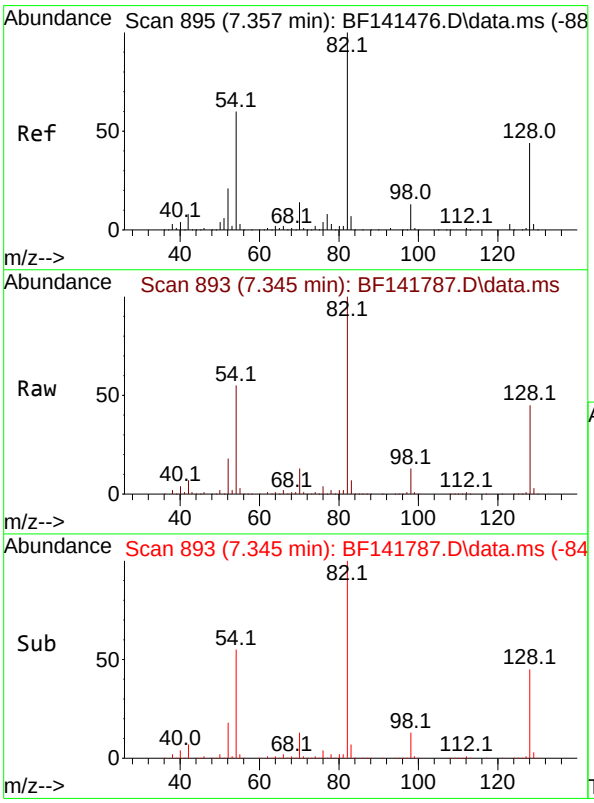
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:136 Resp: 281804

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.2	7.2	10.8
68	4.9	3.7	5.5

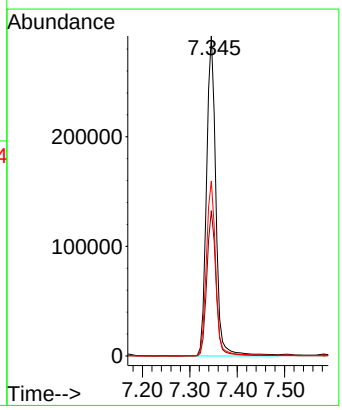


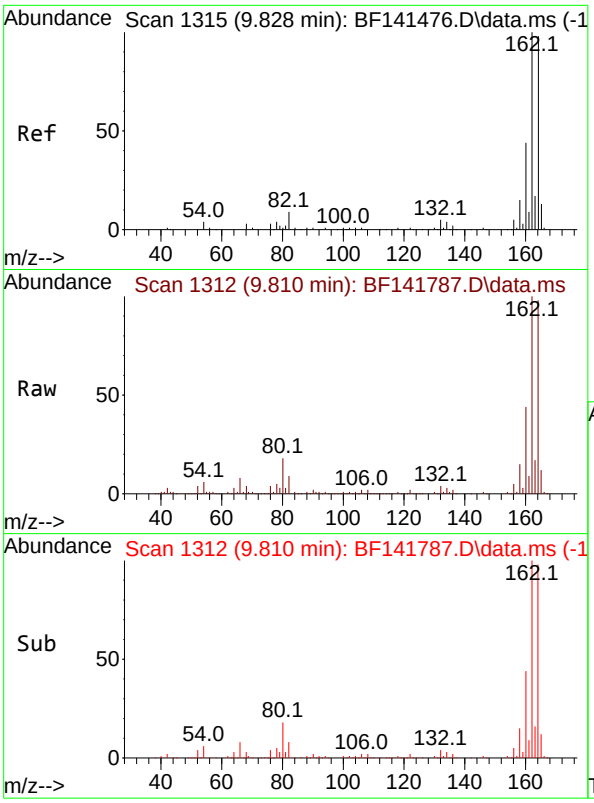


#23
Nitrobenzene-d5
Concen: 74.164 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion: 82 Resp: 400696

Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.8	52.2
54	54.7	48.2	72.4



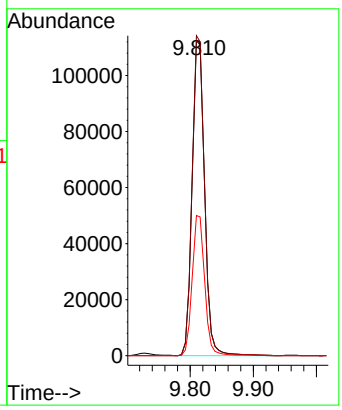


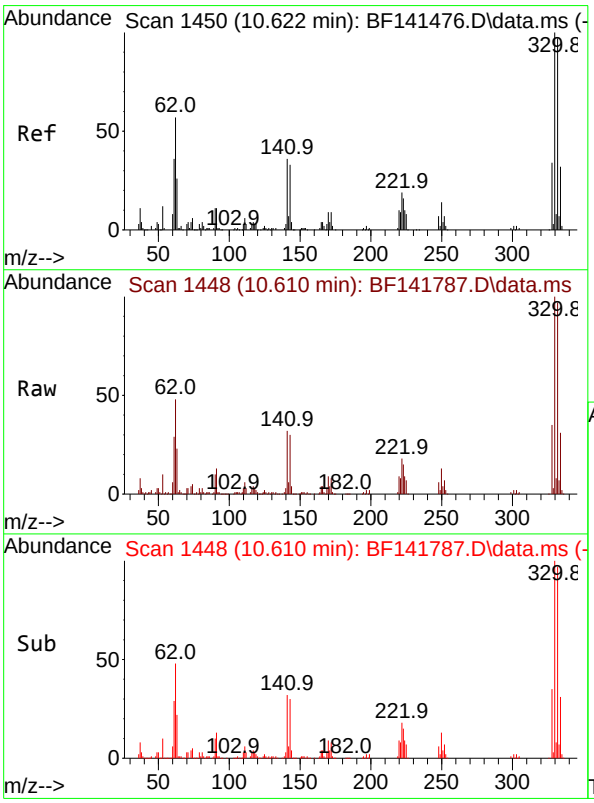
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:164 Resp: 154242

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.3	121.9
160	44.5	35.9	53.9

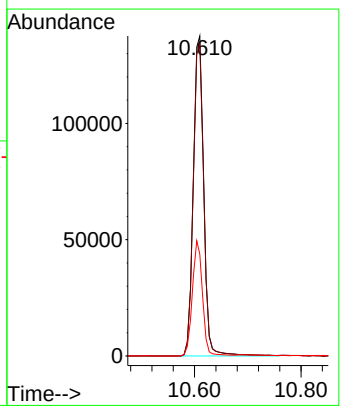


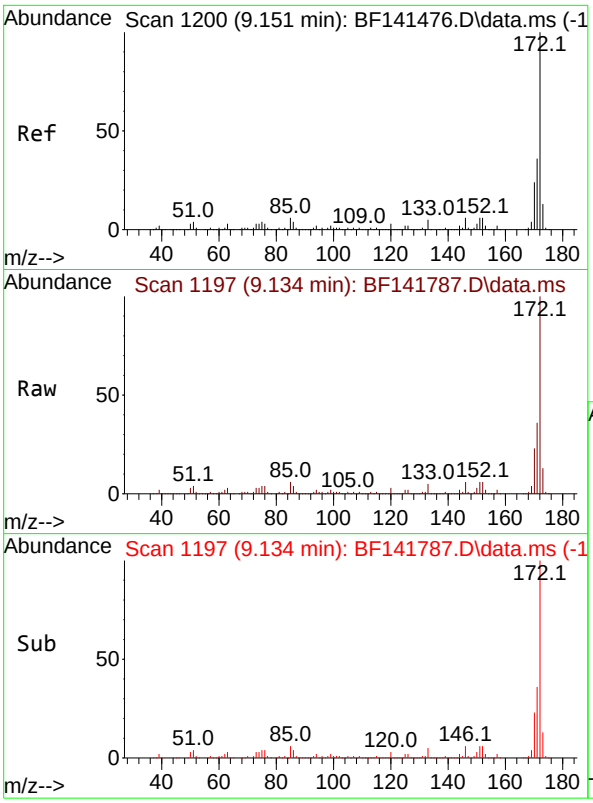


#42
2,4,6-Tribromophenol
Concen: 121.530 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:330 Resp: 188302

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.5	117.7
141	34.8	31.0	46.4



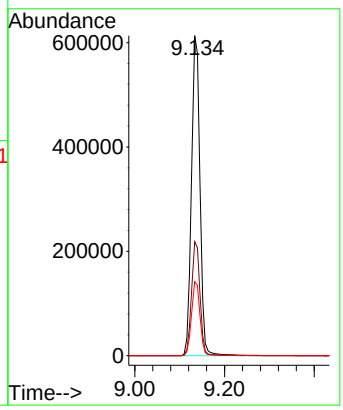


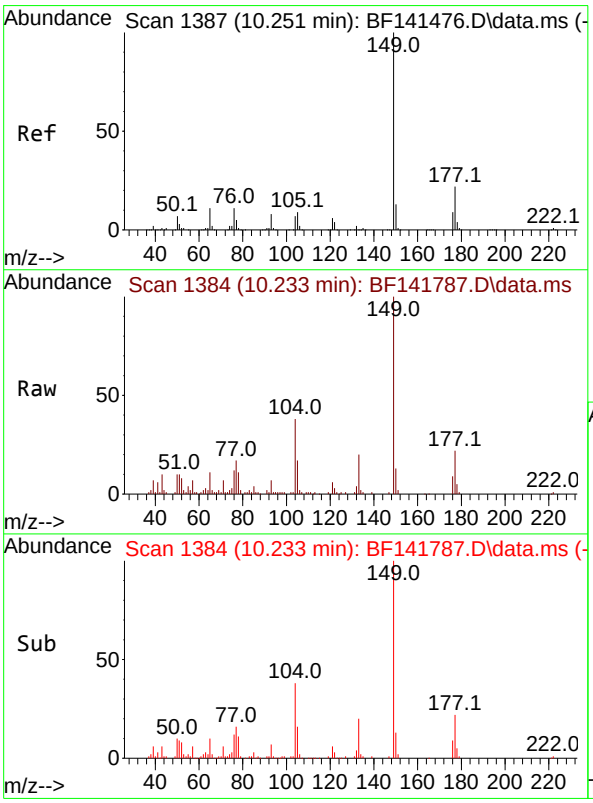
#45
2-Fluorobiphenyl
Concen: 80.674 ng
RT: 9.134 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:172 Resp: 807667

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.2	18.9	28.3

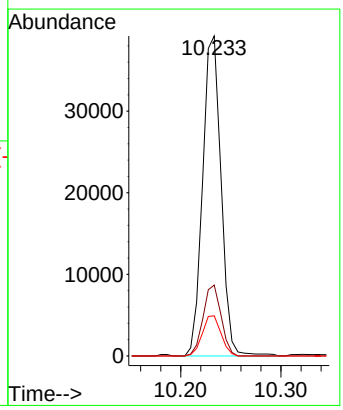


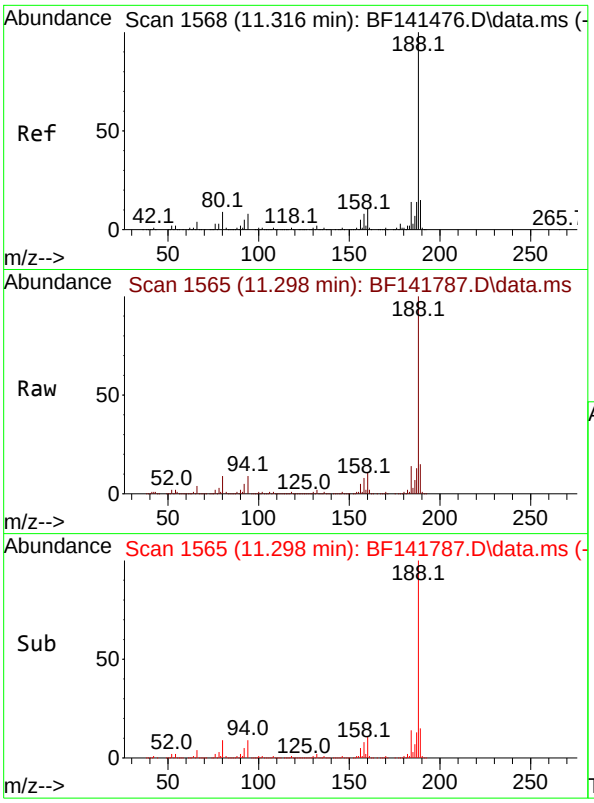


#60
Diethylphthalate
Concen: 4.881 ng
RT: 10.233 min Scan# 1384
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:149 Resp: 50289

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.6	10.1	15.1



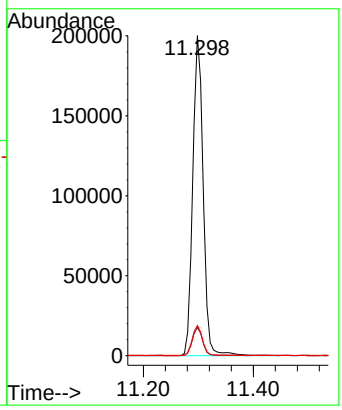


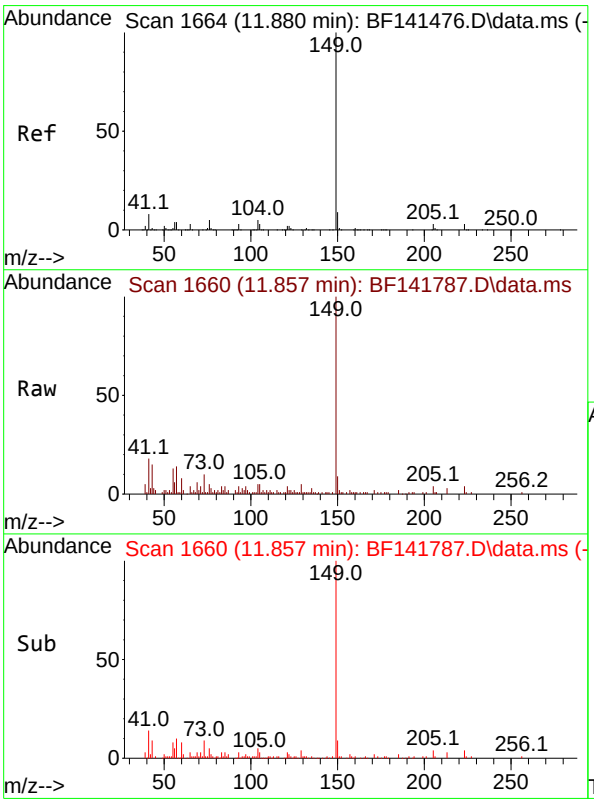
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:188 Resp: 262674

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.4	7.3	10.9

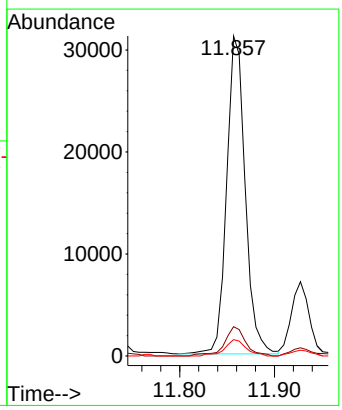


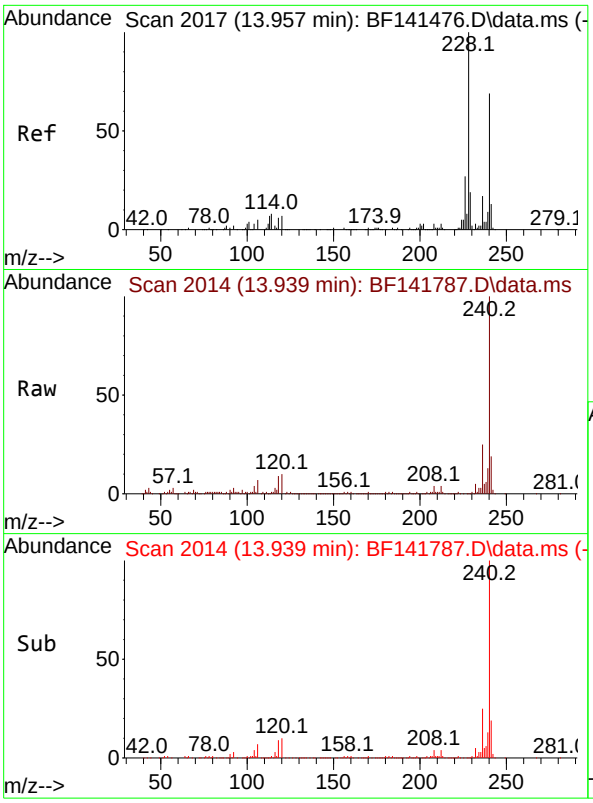


#74
Di-n-butylphthalate
Concen: 2.804 ng
RT: 11.857 min Scan# 1660
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:149 Resp: 42344

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.1	4.2	6.2



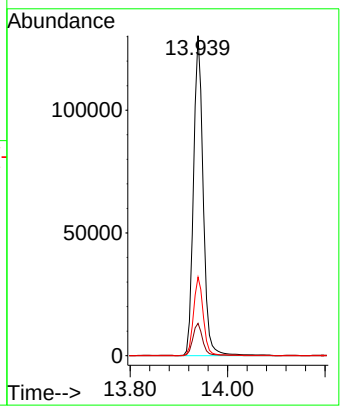


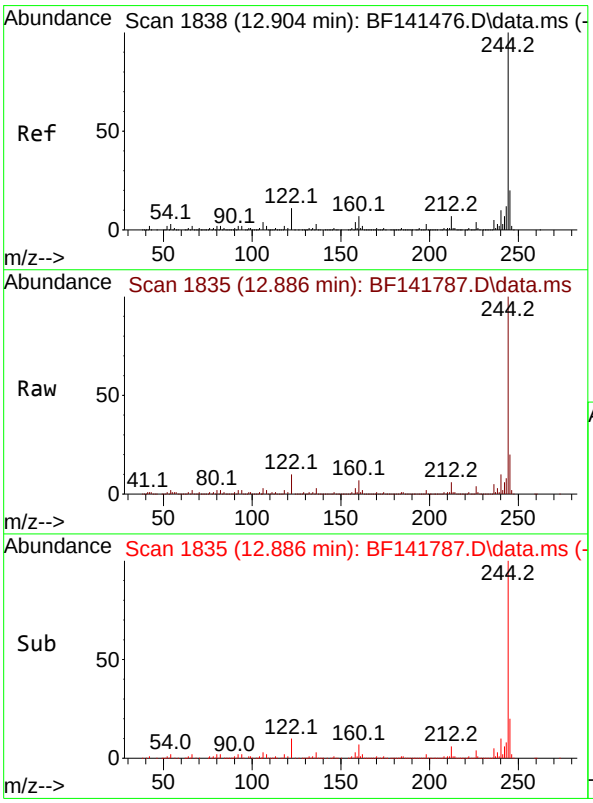
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2(
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:240 Resp: 181385

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.0	12.0
236	24.5	19.8	29.8

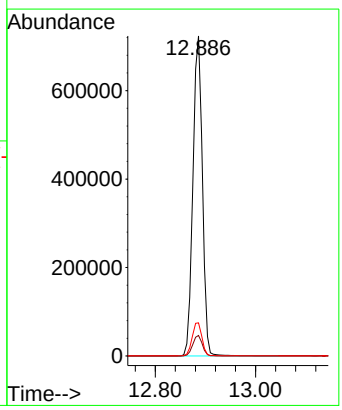


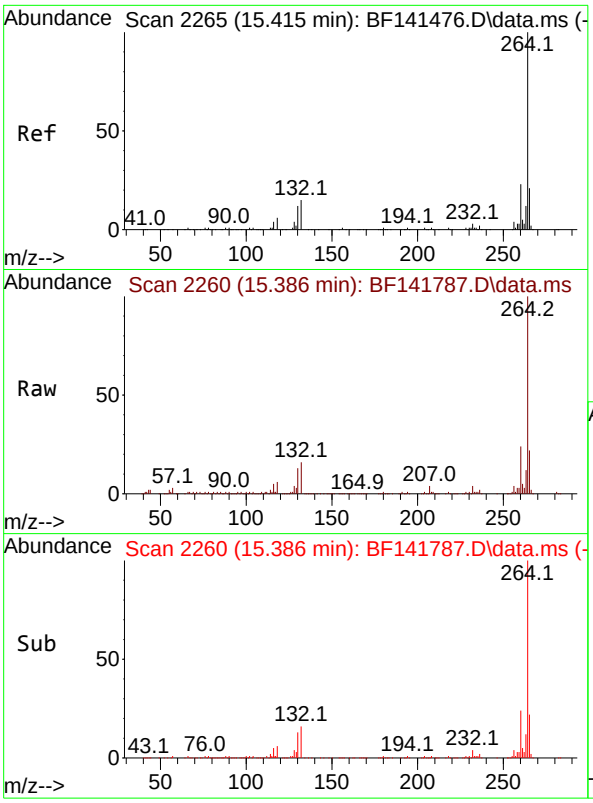


#79
Terphenyl-d14
Concen: 88.191 ng
RT: 12.886 min Scan# 1835
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:244 Resp: 947562

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	10.4	8.4	12.6



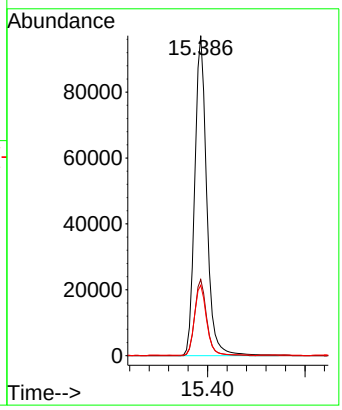


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:264 Resp: 166658

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	22.0	17.0	25.4



Sample Results: **BF141787.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141787.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.175	9	14	23	rVB	18075	30894	1.06%	0.158%
2	2.263	23	29	46	rBV	18835	44840	1.54%	0.229%
3	4.975	486	490	501	rVB	30704	47552	1.63%	0.243%
4	5.404	558	563	578	rBV	558883	879045	30.19%	4.486%
5	5.728	614	618	625	rBV	38331	63864	2.19%	0.326%
6	6.022	664	668	674	rBV	19817	30006	1.03%	0.153%
7	6.428	732	737	748	rBV	359483	615873	21.15%	3.143%
8	6.610	764	768	774	rBV	71973	94784	3.25%	0.484%
9	6.781	789	797	802	rBV	326548	426482	14.64%	2.176%
10	6.840	802	807	813	rBV	122331	169520	5.82%	0.865%
11	7.169	858	863	874	rVB2	36150	61645	2.12%	0.315%
12	7.345	882	893	897	rBV	876611	1243225	42.69%	6.344%
13	7.469	909	914	919	rBV2	47157	84189	2.89%	0.430%
14	7.604	934	937	943	rVB2	30780	45347	1.56%	0.231%
15	7.739	956	960	963	rBV	33600	47099	1.62%	0.240%
16	7.810	968	972	975	rVB3	38487	45202	1.55%	0.231%
17	7.851	975	979	983	rBV2	33564	44423	1.53%	0.227%
18	8.004	995	1005	1007	rBV5	25776	75240	2.58%	0.384%
19	8.063	1007	1015	1022	rVV2	425748	895547	30.75%	4.570%
20	8.116	1022	1024	1028	rVB	54787	64289	2.21%	0.328%
21	8.357	1057	1065	1070	rBV4	68071	144734	4.97%	0.739%
22	8.404	1070	1073	1075	rVV2	38372	49101	1.69%	0.251%
23	8.434	1075	1078	1082	rVV	67168	90171	3.10%	0.460%
24	8.481	1082	1086	1096	rVB	101231	183078	6.29%	0.934%
25	8.651	1110	1115	1119	rBV	333454	412546	14.17%	2.105%
26	8.704	1119	1124	1127	rVV4	23393	47990	1.65%	0.245%
27	8.739	1128	1130	1134	rVB	29833	34945	1.20%	0.178%
28	8.934	1159	1163	1166	rBV2	36963	64932	2.23%	0.331%
29	9.010	1173	1176	1180	rVB2	38106	50524	1.73%	0.258%
30	9.051	1180	1183	1185	rVV	24325	29939	1.03%	0.153%
31	9.075	1185	1187	1191	rVV	35790	44810	1.54%	0.229%
32	9.134	1192	1197	1206	rVV	1790856	2332749	80.10%	11.904%
33	9.216	1206	1211	1215	rVV	170701	238575	8.19%	1.217%
34	9.251	1215	1217	1227	rVB3	29453	48297	1.66%	0.246%
35	9.533	1260	1265	1271	rVV3	16727	38515	1.32%	0.197%
36	9.739	1294	1300	1304	rBV2	40863	73229	2.51%	0.374%

Sample Results: **BF141787.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	9.810	1308	1312	1323	rVB	474408	646496	22.20%	3.299%
38	9.986	1336	1342	1352	rBV	174727	293293	10.07%	1.497%
39	10.210	1375	1380	1397	rBV3	211765	545156	18.72%	2.782%
40	10.528	1429	1434	1442	rBV	471623	610172	20.95%	3.114%
41	10.604	1442	1447	1462	rVV	1106924	1506849	51.74%	7.689%
42	10.833	1481	1486	1494	rBV	104871	135954	4.67%	0.694%
43	11.298	1560	1565	1573	rVV	493344	640740	22.00%	3.270%
44	11.463	1589	1593	1600	rVB	48465	64104	2.20%	0.327%
45	11.663	1622	1627	1634	rBV2	105195	153238	5.26%	0.782%
46	11.827	1650	1655	1668	rBV2	284696	551003	18.92%	2.812%
47	11.986	1679	1682	1689	rVB4	15729	32464	1.11%	0.166%
48	12.316	1735	1738	1742	rVV	32688	42286	1.45%	0.216%
49	12.369	1742	1747	1753	rVB5	22933	50381	1.73%	0.257%
50	12.533	1771	1775	1779	rBV	69657	103121	3.54%	0.526%
51	12.616	1784	1789	1797	rVV	152233	252253	8.66%	1.287%
52	12.698	1798	1803	1808	rVB	827963	1038932	35.68%	5.302%
53	12.886	1829	1835	1846	rVB	1892552	2912141	100.00%	14.860%
54	13.186	1883	1886	1890	rVB2	29439	34228	1.18%	0.175%
55	13.786	1984	1988	2001	rVB	50049	112401	3.86%	0.574%
56	13.939	2009	2014	2022	rVB	340973	464694	15.96%	2.371%
57	14.768	2152	2155	2162	rVB	47082	64364	2.21%	0.328%
58	15.386	2254	2260	2271	rBV	265227	449071	15.42%	2.292%

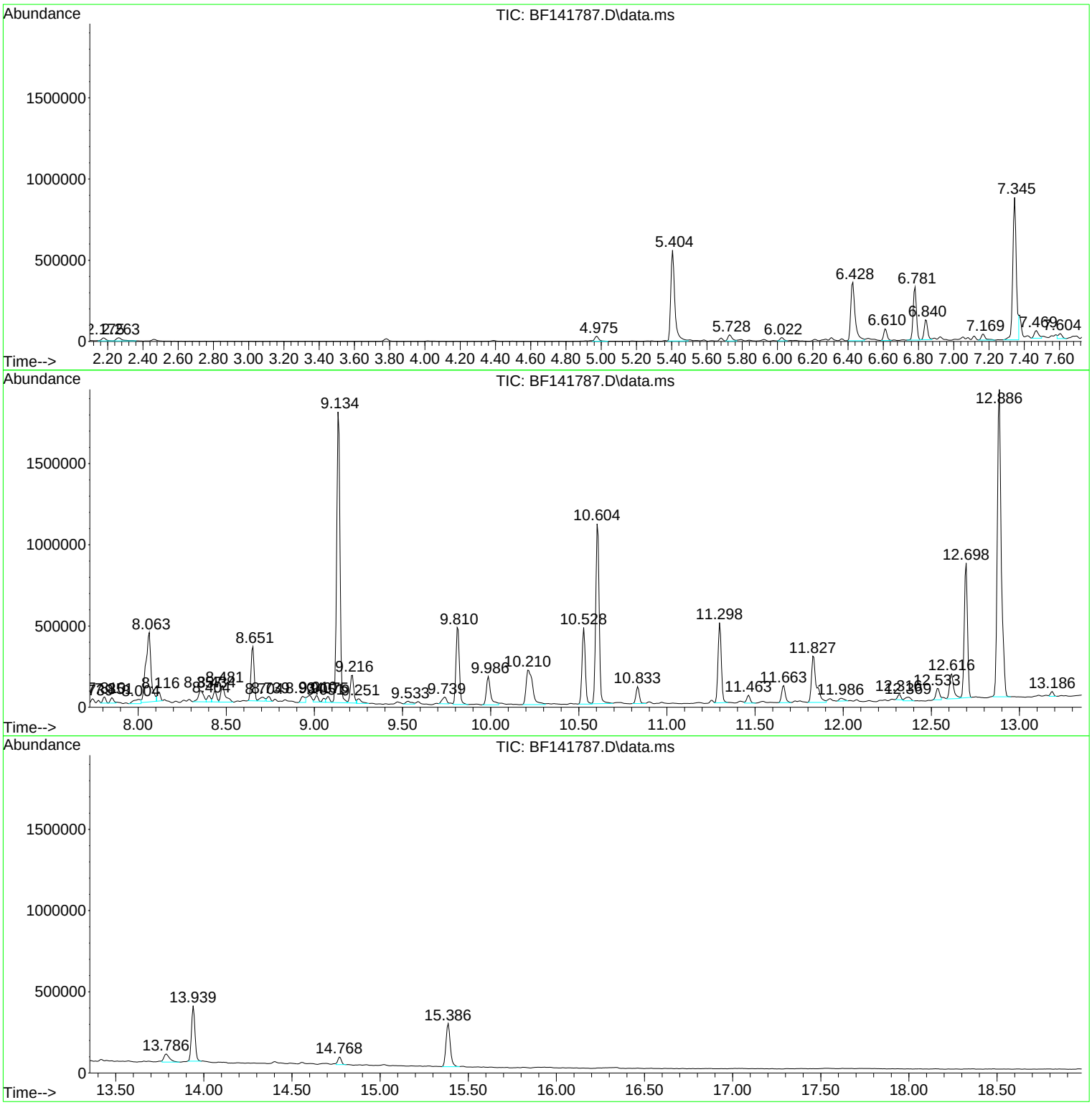
Sum of corrected areas: 19596542

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



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Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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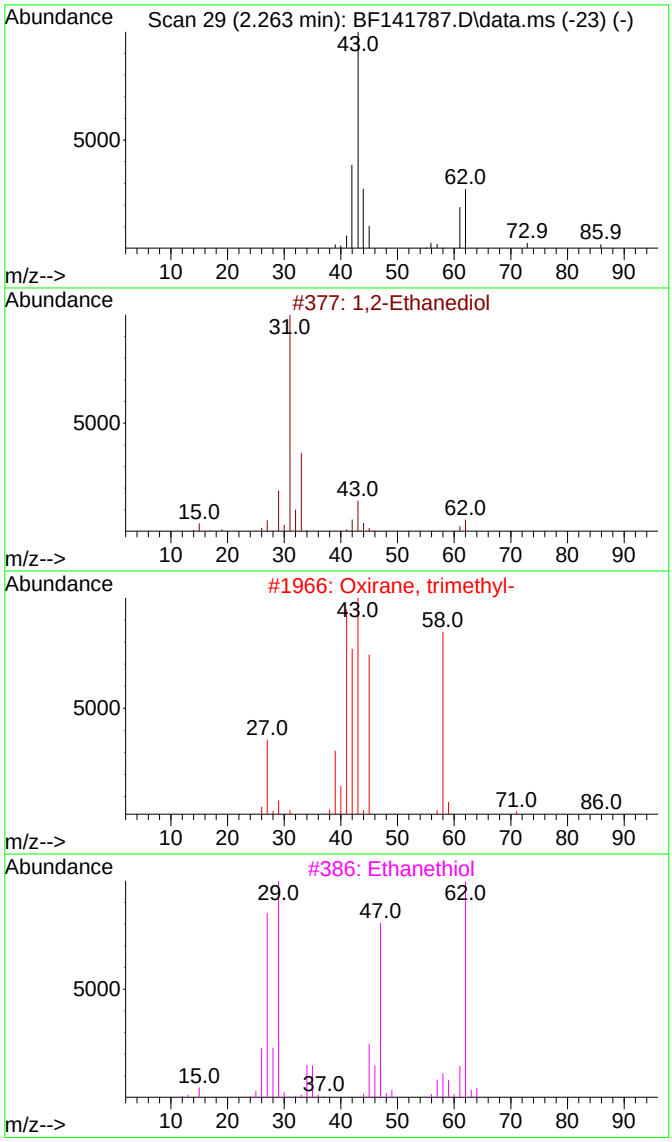
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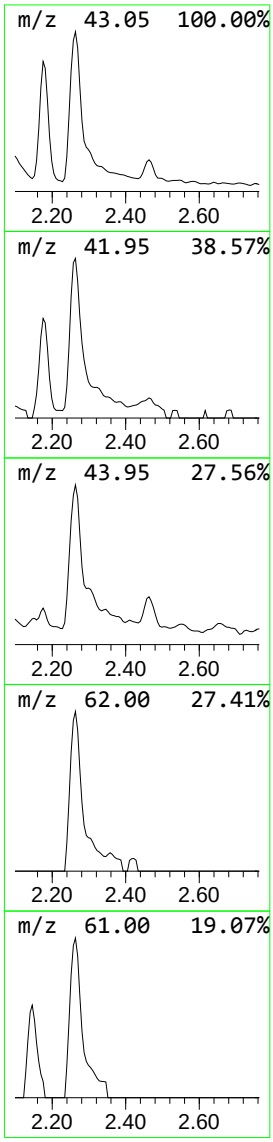
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Peak Number 1 unknown2.263 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	2.10 ng	44840	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Ethanediol	62	C2H6O2	000107-21-1	7
2	Oxirane, trimethyl-	86	C5H10O	005076-19-7	5
3	Ethanethiol	62	C2H6S	000075-08-1	4
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	4
5	5-Methyloxazolidine	87	C4H9NO	058328-22-6	4





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
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Sample : Q1415-06
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Instrument :
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ClientSampleId :
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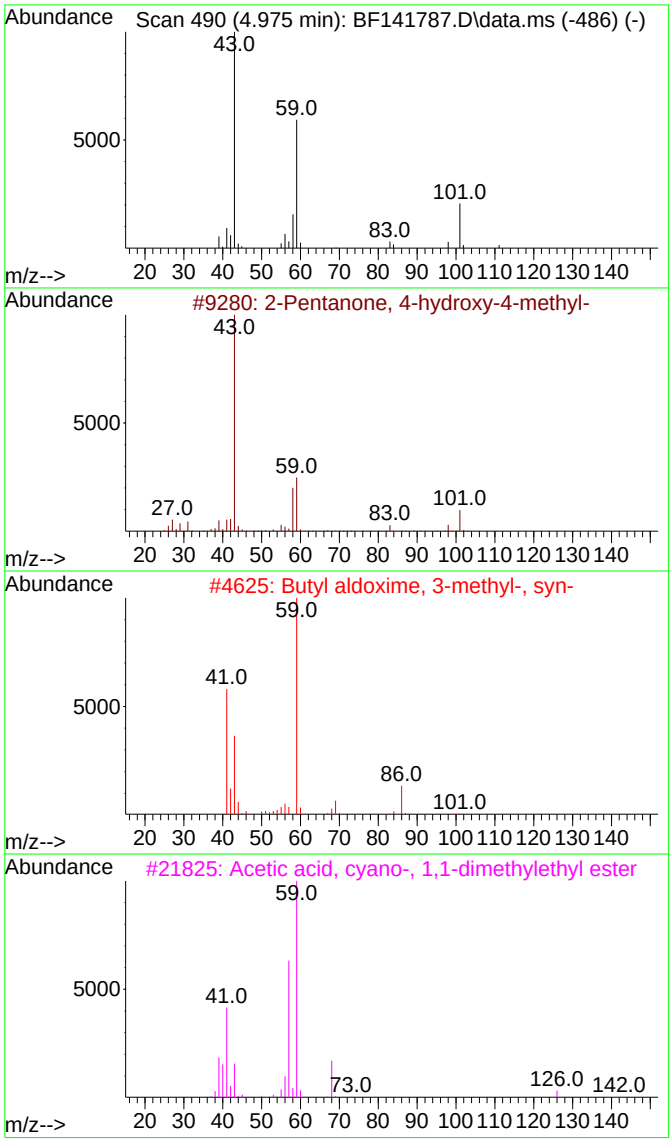
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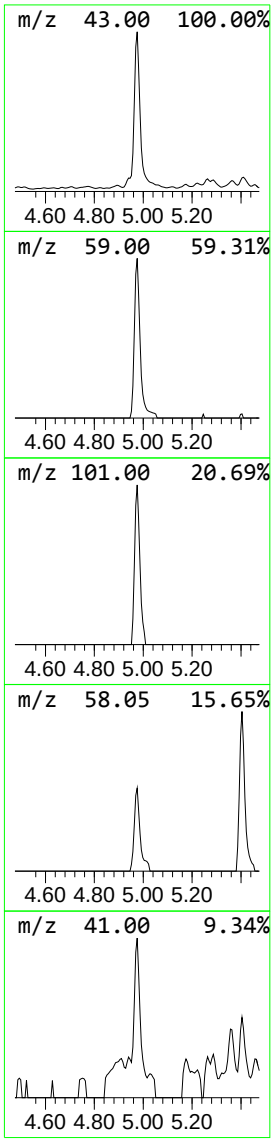
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****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.975	2.23 ng	47552	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	17
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
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Instrument :
BNA_F
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

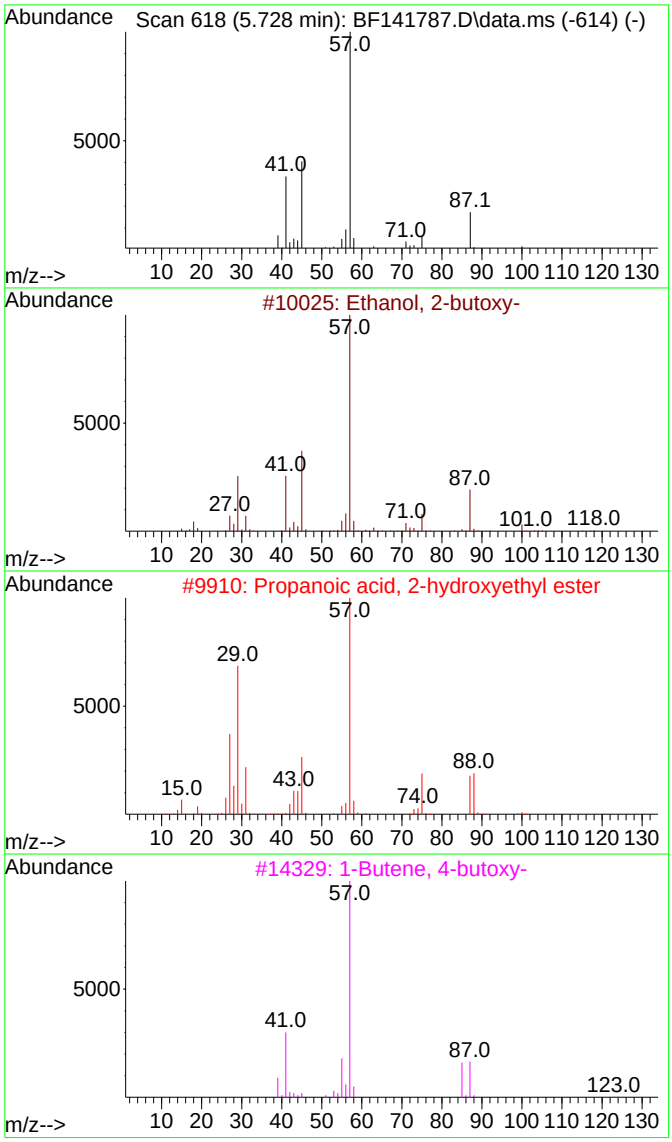
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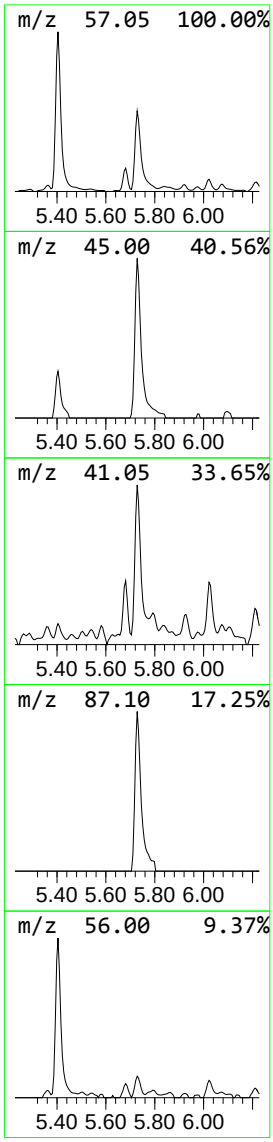
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Peak Number 3 Ethanol, 2-butoxy- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.728	2.99 ng	63864	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	83
2	Propanoic acid, 2-hydroxyethyl e...	118	C5H10O3	024567-27-9	17
3	1-Butene, 4-butoxy-	128	C8H16O	034061-76-2	17
4	Isobutyl ether	130	C8H18O	000628-55-7	16
5	Propanoic acid, 2,2-dimethyl-, s...	208	C5H9AgO2	007324-58-5	16





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

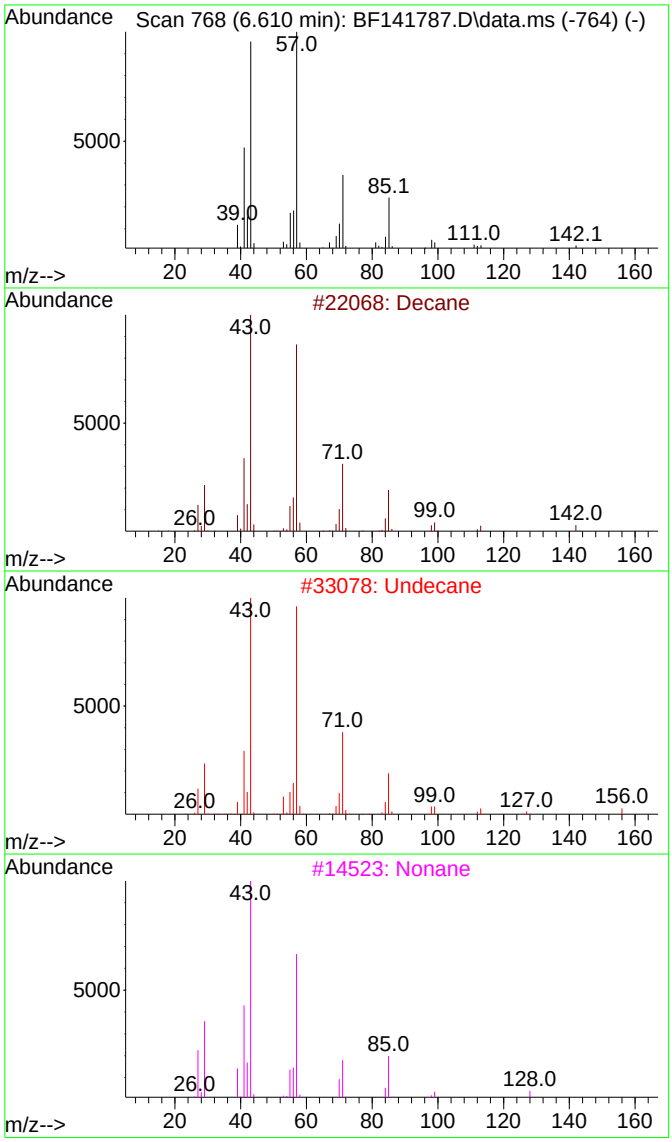
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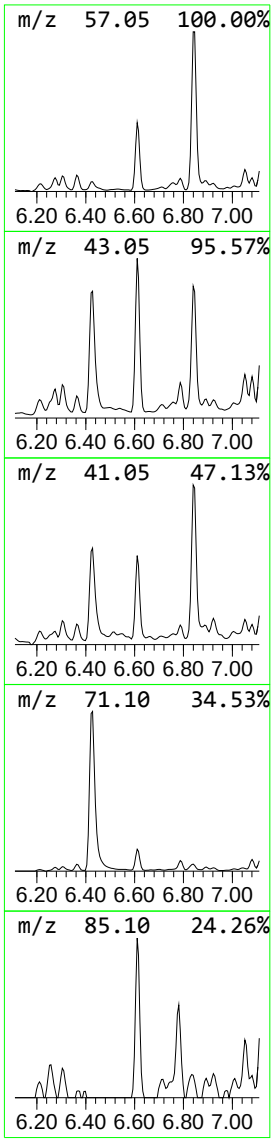
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Peak Number 4 Decane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.610	4.44 ng	94784	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	90
2	Undecane	156	C11H24	001120-21-4	83
3	Nonane	128	C9H20	000111-84-2	64
4	Decane, 2,3,6-trimethyl-	184	C13H28	062238-12-4	64
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
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Operator : RC/JU
Sample : Q1415-06
Misc :
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Instrument :
BNA_F
ClientSampleId :
B-173-GW01

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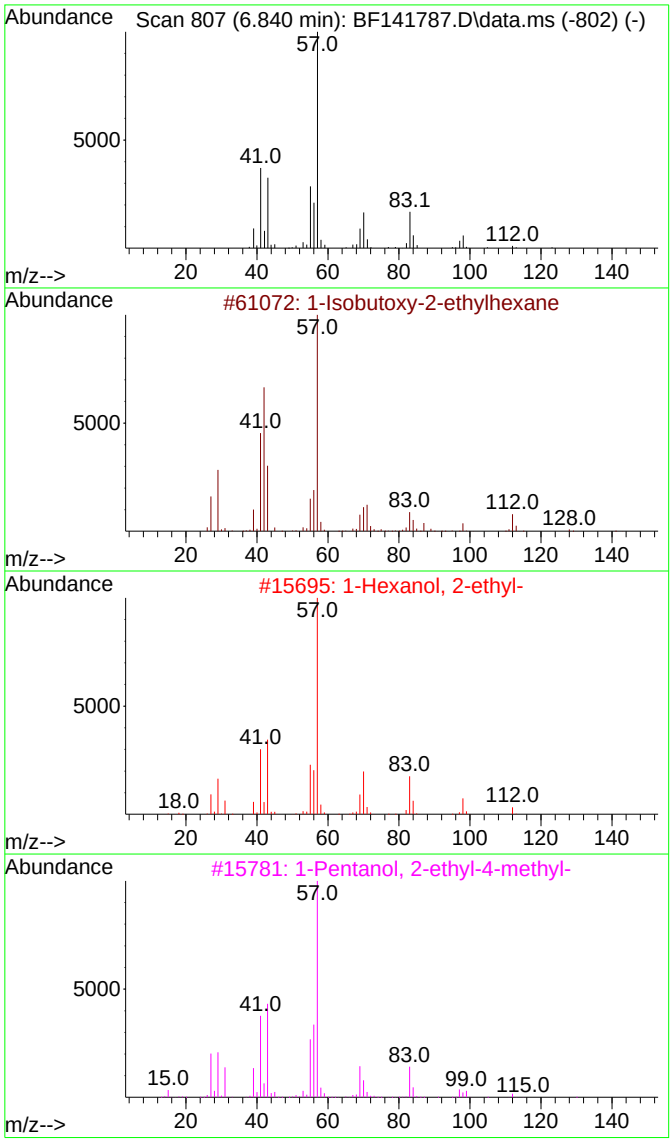
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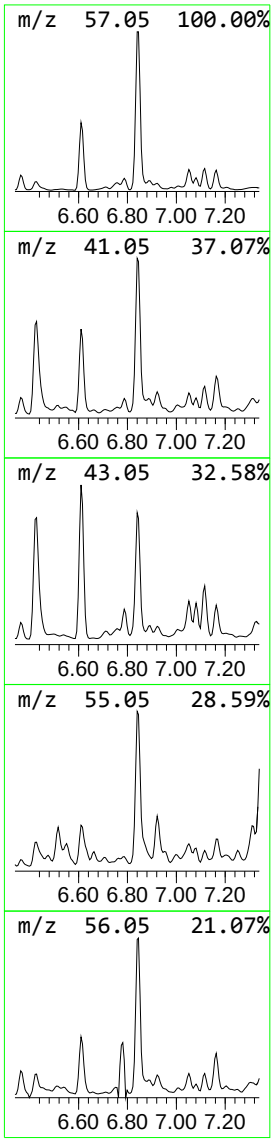
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Peak Number 5 1-Isobutoxy-2-ethylhexane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.840	7.95 ng	169520	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	78
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	72
3	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	59
4	Oxalic acid, isobutyl octyl ester	258	C14H26O4	1000309-37-3	59
5	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	59





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
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Misc :
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Instrument :
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ClientSampleId :
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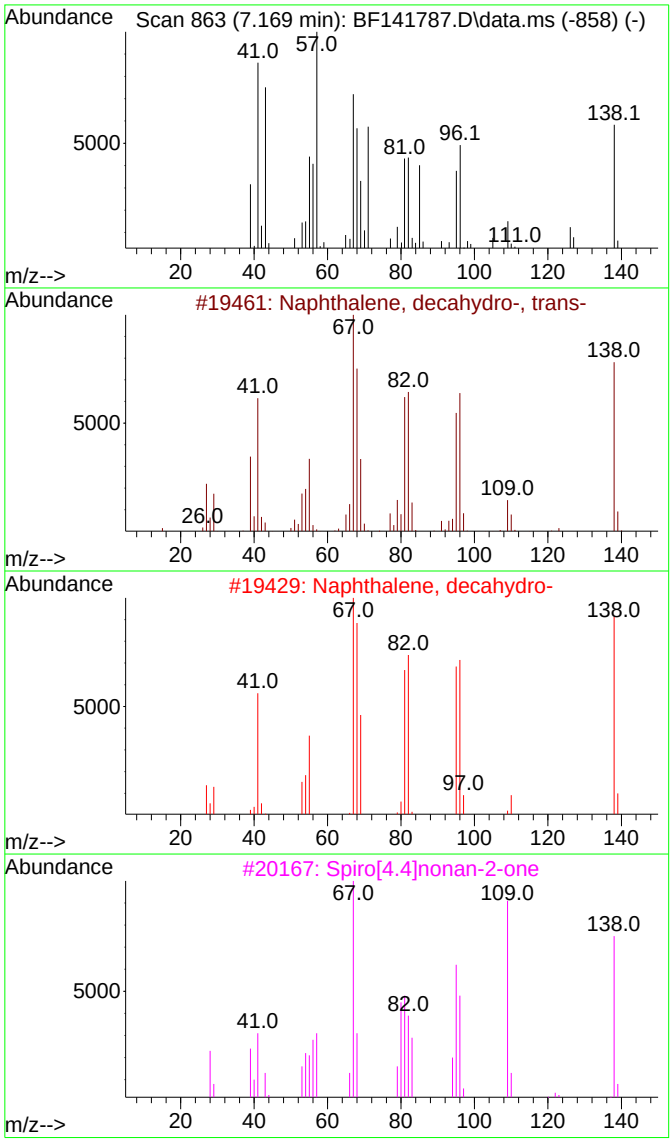
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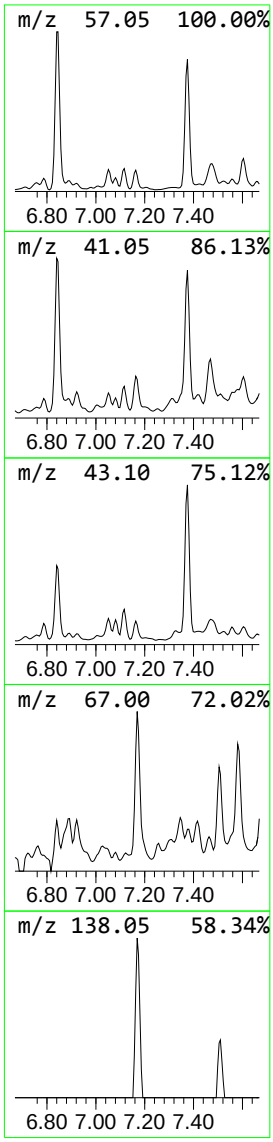
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TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, decahydro-, tr... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.169	2.89 ng	61645	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	90
2	Naphthalene, decahydro-	138	C10H18	000091-17-8	90
3	Spiro[4.4]nonan-2-one	138	C9H14O	034177-18-9	38
4	1,1'-Bicyclopentyl	138	C10H18	001636-39-1	38
5	Cyclopentene, 1-(3-methylbutyl)-	138	C10H18	037689-15-9	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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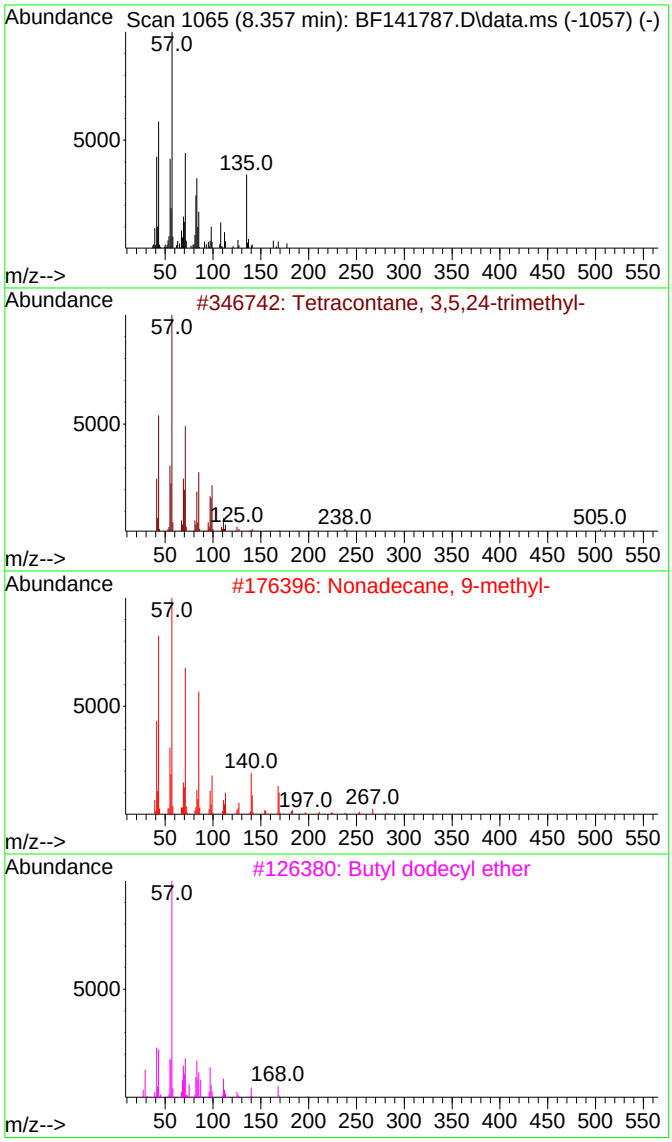
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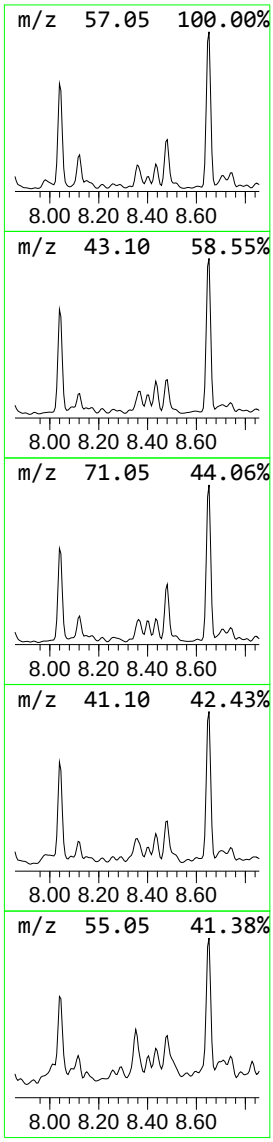
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Peak Number 7 unknown8.357 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.357	3.23 ng	144734	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracontane, 3,5,24-trimethyl-	605	C43H88	055162-61-3	38
2	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	35
3	Butyl dodecyl ether	242	C16H34O	1000406-40-3	35
4	10-Methylnonadecane	282	C20H42	056862-62-5	35
5	Dodecyl isobutyl carbonate	286	C17H34O3	959067-22-2	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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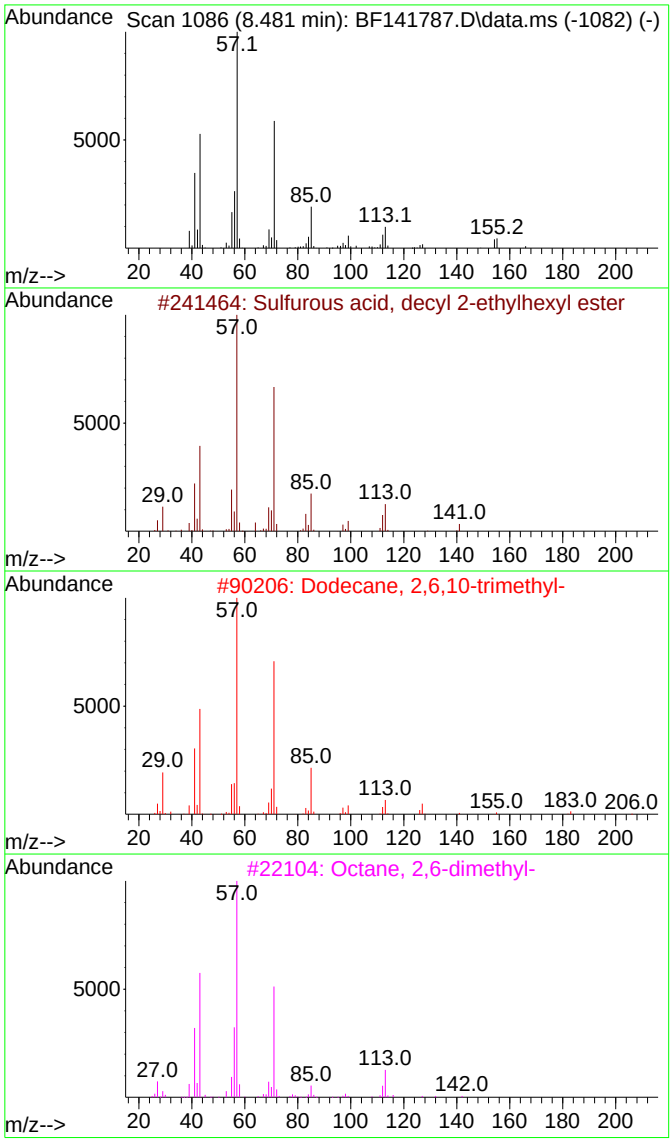
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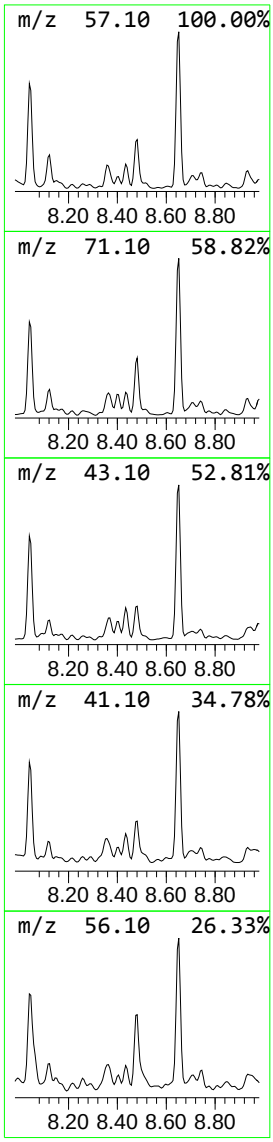
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****
Peak Number 8 Sulfurous acid, decyl 2-eth... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.481	4.09 ng	183078	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	72
2	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	64
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	59
4	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	59
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	59





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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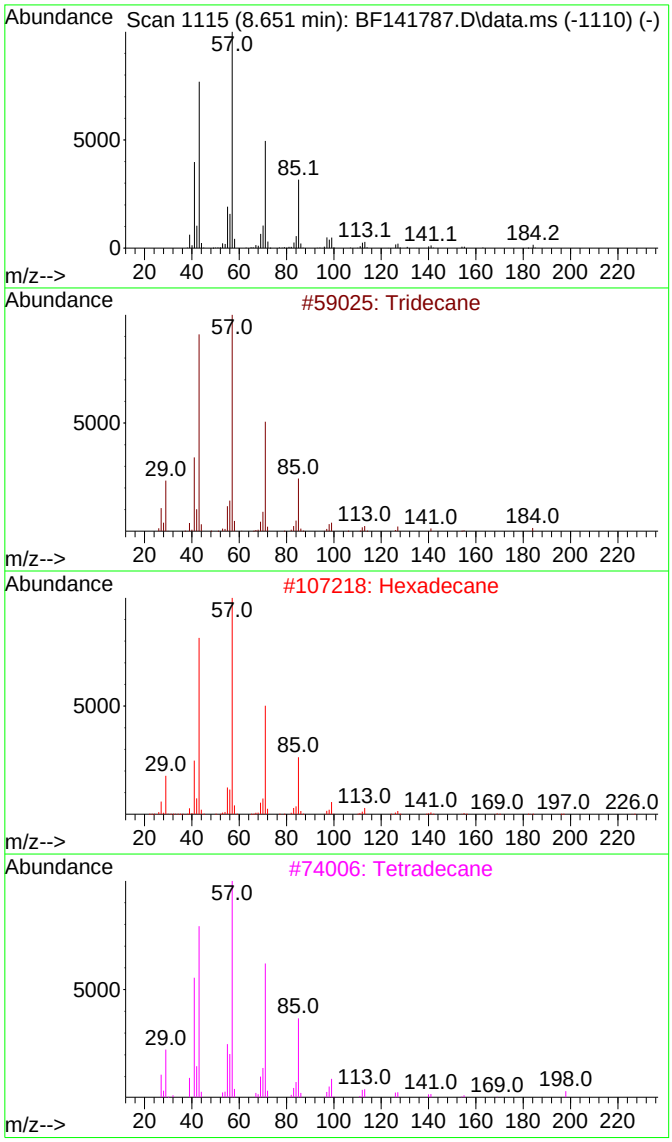
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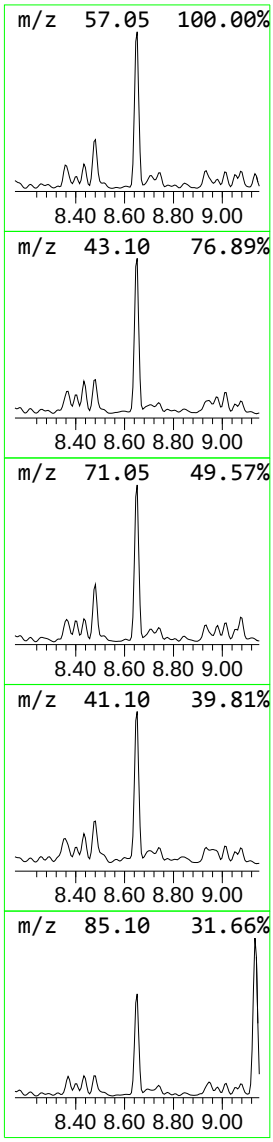
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Peak Number 9 Tridecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.651	9.21 ng	412546	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	93
2	Hexadecane	226	C16H34	000544-76-3	90
3	Tetradecane	198	C14H30	000629-59-4	86
4	Dodecane	170	C12H26	000112-40-3	86
5	Pentadecane	212	C15H32	000629-62-9	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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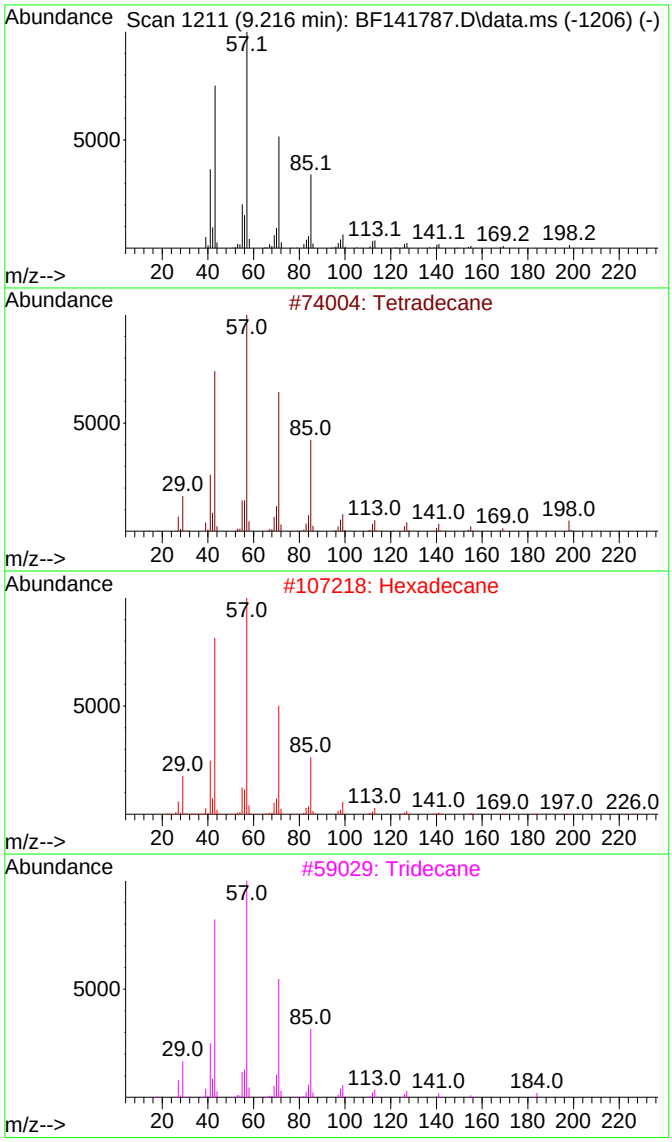
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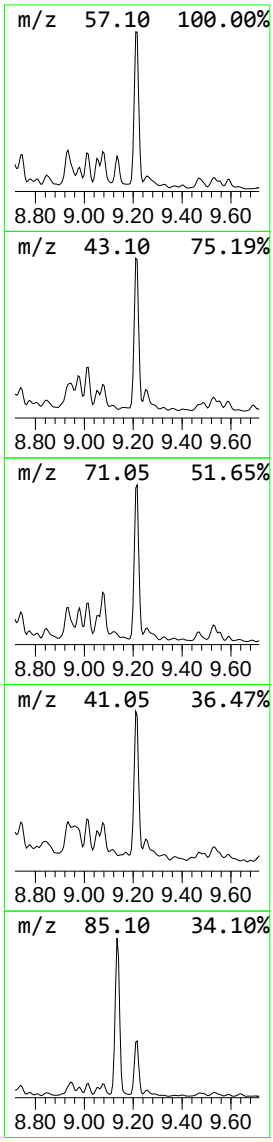
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Peak Number 10 Tetradecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.216	7.38 ng	238575	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	95
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tridecane	184	C13H28	000629-50-5	90
4	Pentadecane	212	C15H32	000629-62-9	90
5	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
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ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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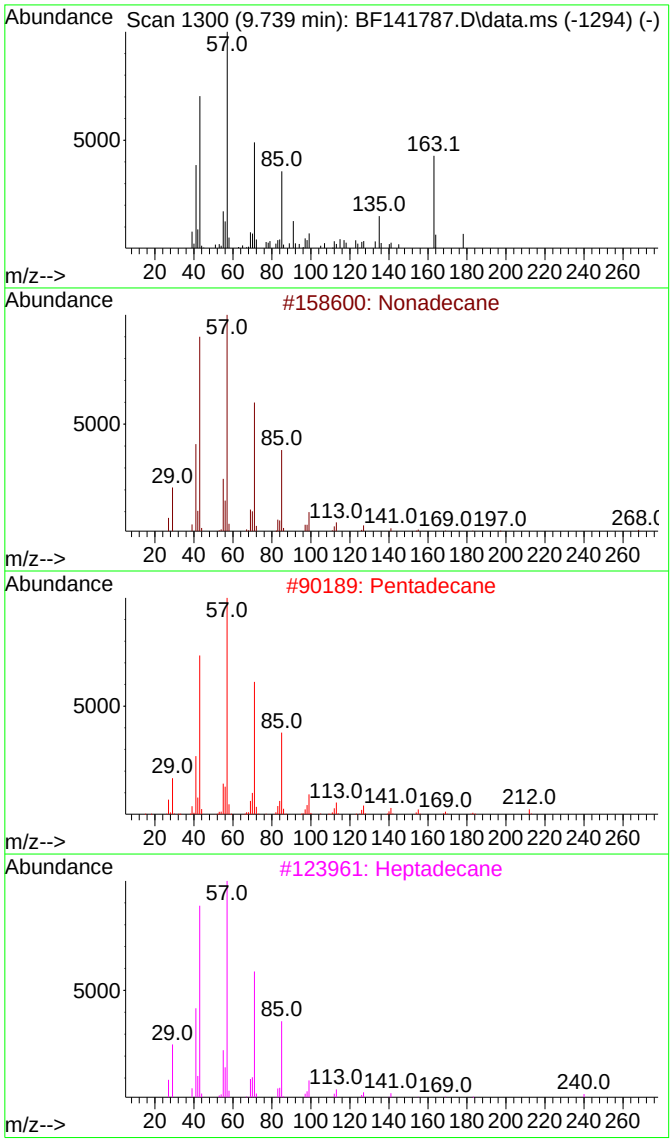
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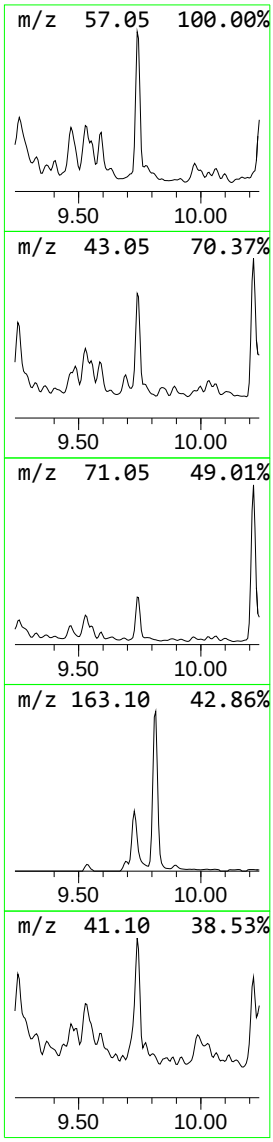
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Peak Number 11 unknown9.739 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.739	2.27 ng	73229	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	49
2	Pentadecane	212	C15H32	000629-62-9	46
3	Heptadecane	240	C17H36	000629-78-7	43
4	Tetradecane	198	C14H30	000629-59-4	43
5	Hexadecane	226	C16H34	000544-76-3	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
B-173-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

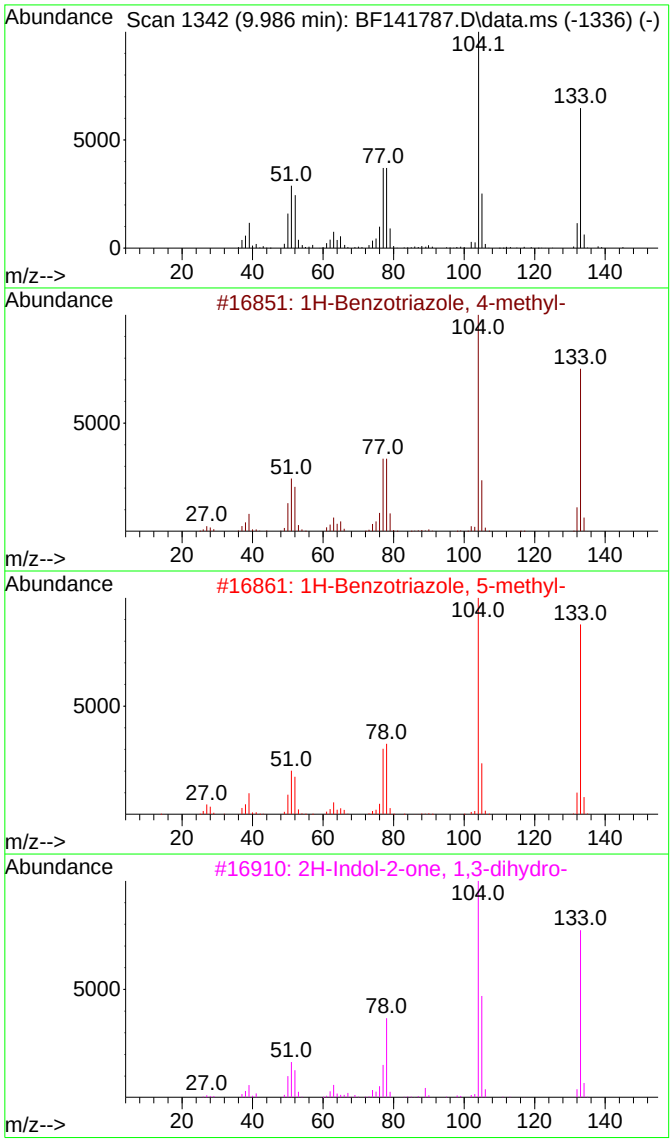
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TIC Integration Parameters: LSCINT.P

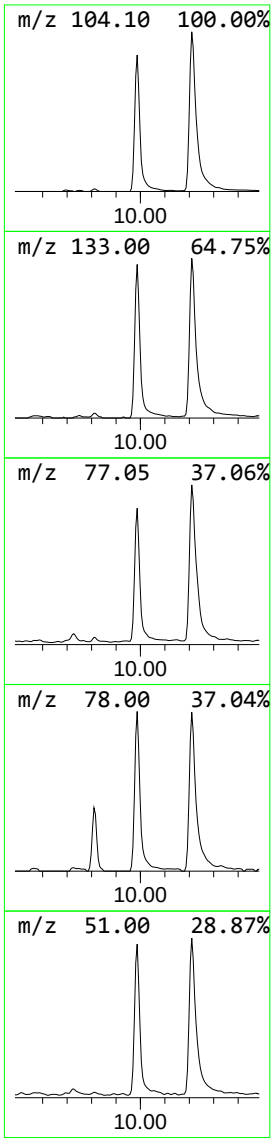
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Peak Number 12 1H-Benzotriazole, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.986	9.07 ng	293293	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benzotriazole, 4-methyl-	133	C7H7N3	029878-31-7	98
2	1H-Benzotriazole, 5-methyl-	133	C7H7N3	000136-85-6	97
3	2H-Indol-2-one, 1,3-dihydro-	133	C8H7NO	000059-48-3	80
4	Benzene, 1-isocyanato-2-methyl-	133	C8H7NO	000614-68-6	62
5	1H-Indol-4-ol	133	C8H7NO	002380-94-1	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

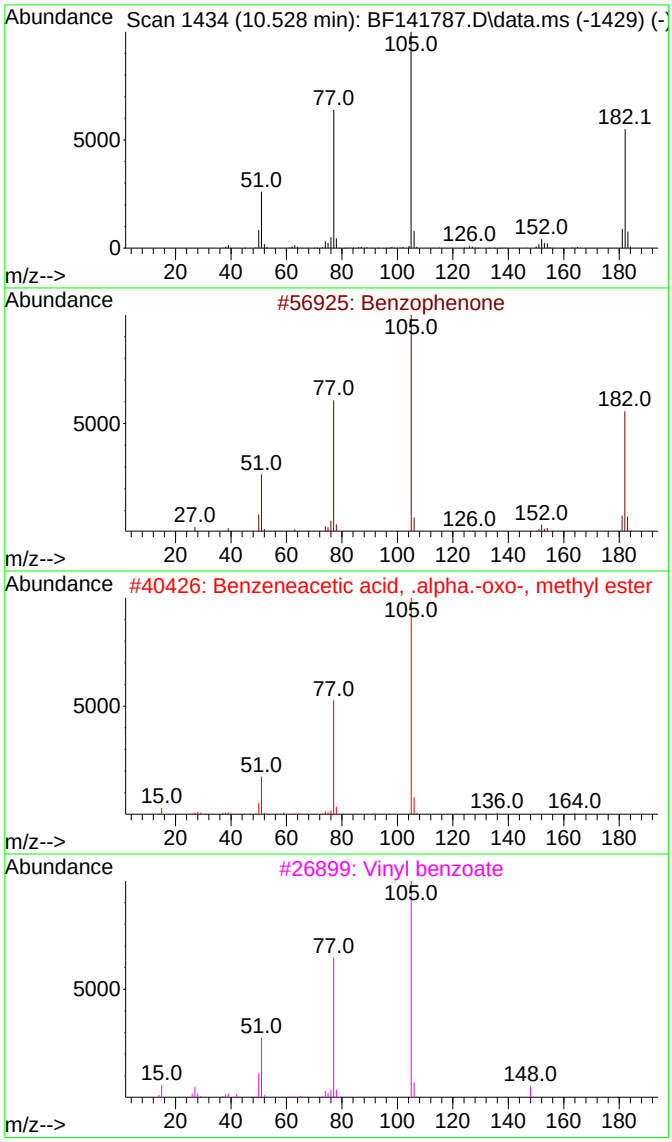
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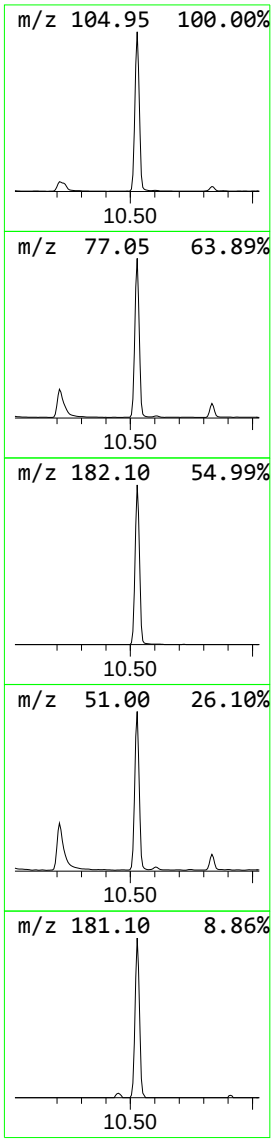
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Peak Number 13 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	18.88 ng	610172	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47
5	5-Oxo-5-phenylpentanenitrile	173	C11H11NO	1000486-83-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

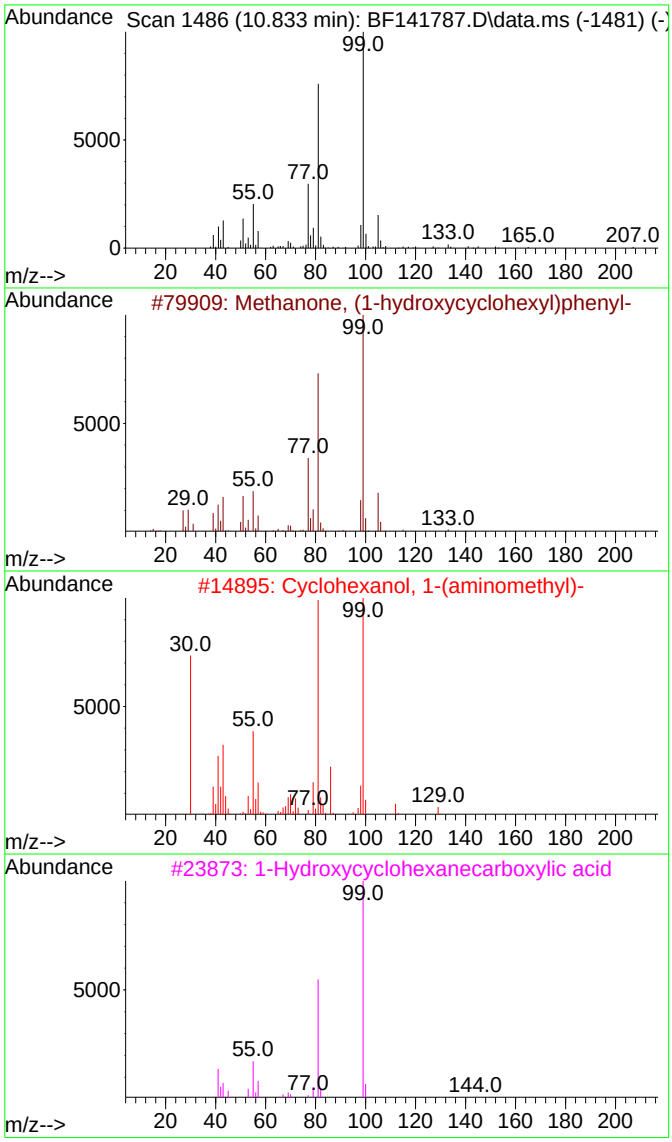
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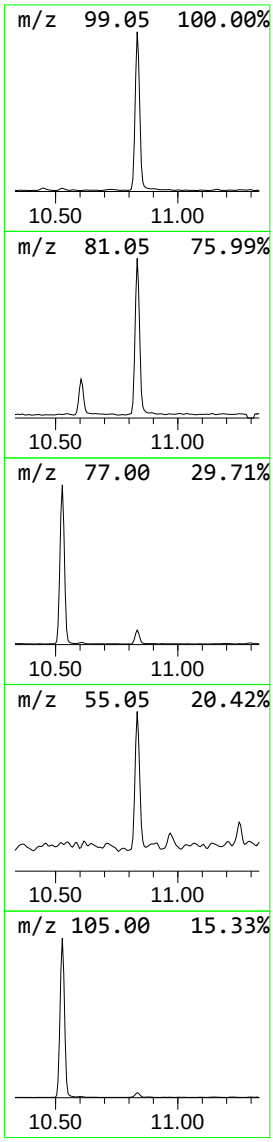
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 Methanone, (1-hydroxycycloh... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.833	4.24 ng	135954	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
4	2-Methylcyclosarin	194	C8H16FO2P	085473-32-1	42
5	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

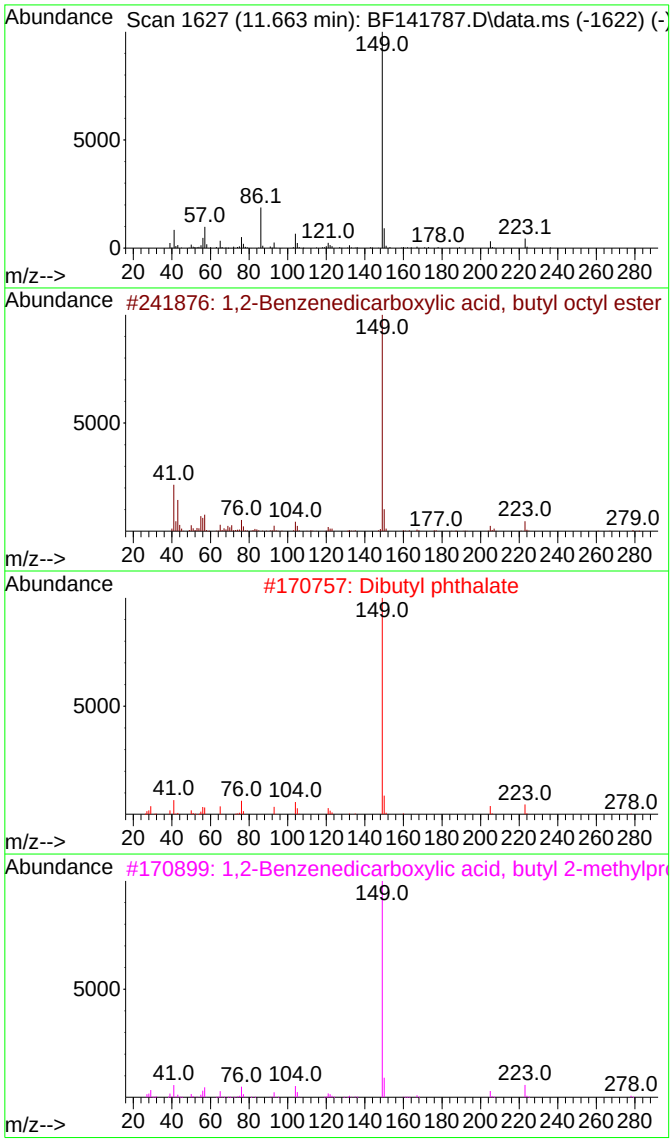
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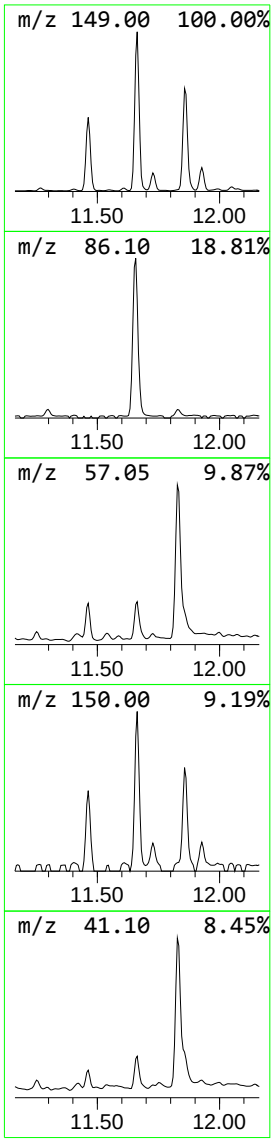
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 1,2-Benzenedicarboxylic aci... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.663	4.78 ng	153238	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	86
2	Dibutyl phthalate	278	C16H22O4	000084-74-2	83
3	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	80
4	Phthalic acid, cycloheptyl isobu...	318	C19H26O4	1000322-82-8	72
5	Phthalic acid, butyl hexyl ester	306	C18H26O4	1010308-99-5	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

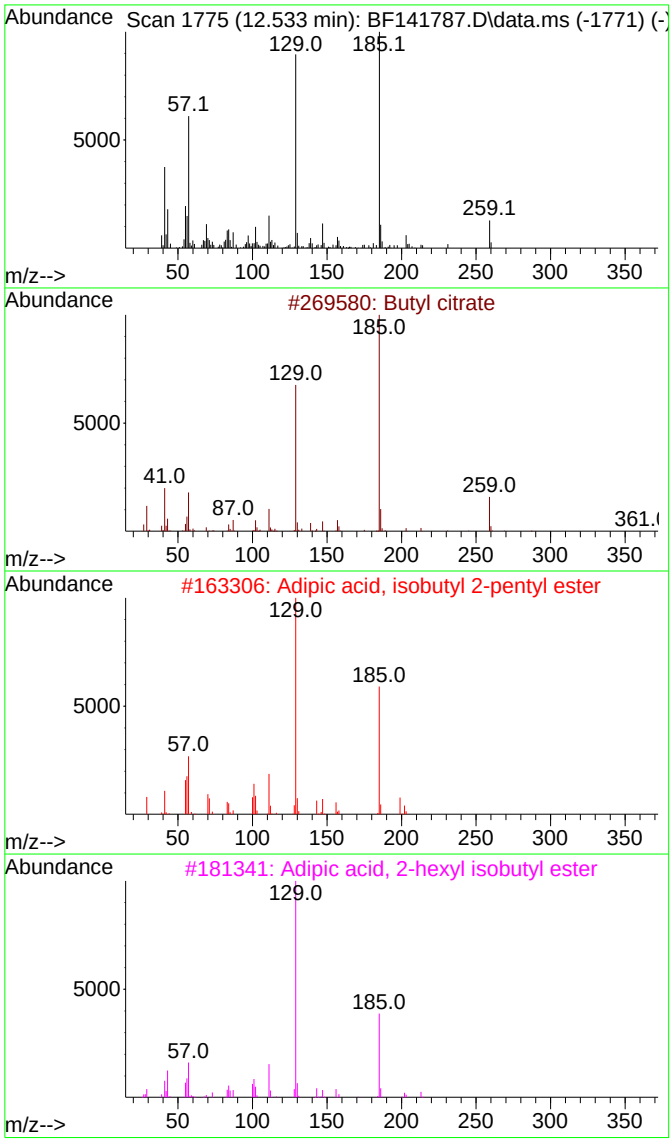
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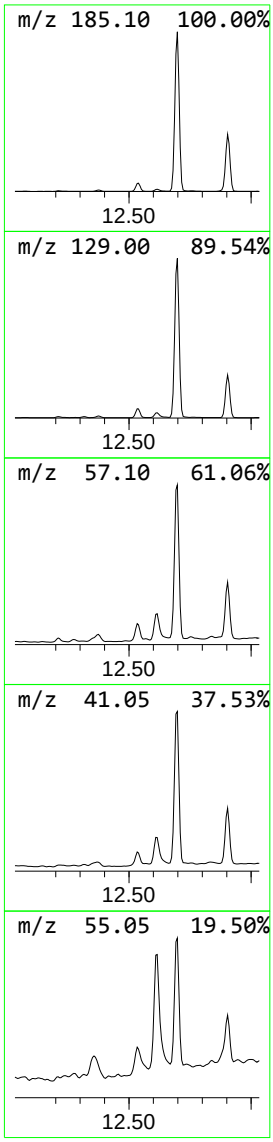
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Peak Number 16 Butyl citrate Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.533	3.22 ng	103121	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	86
2	Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	78
3	Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	78
4	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	53
5	Adipic acid, isobutyl 2-methylpe...	286	C16H30O4	1000353-55-7	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

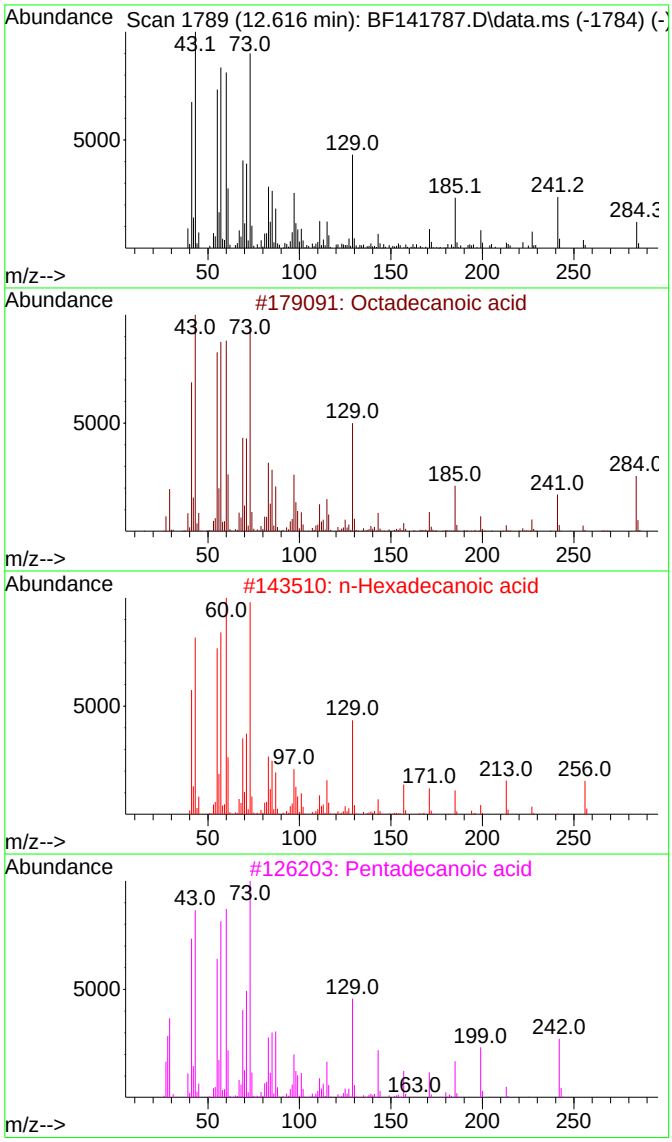
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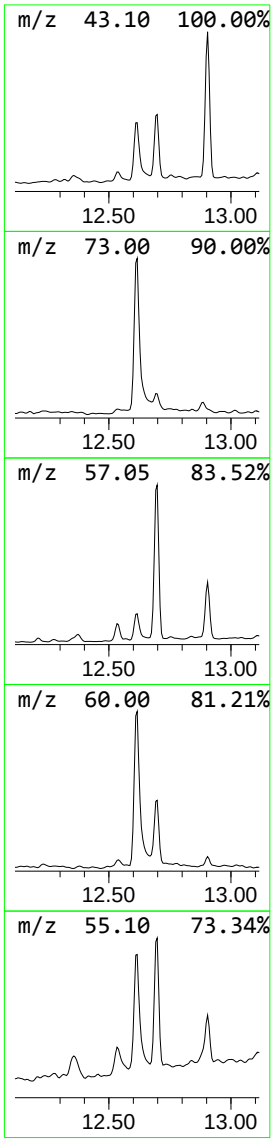
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Peak Number 17 Octadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.616	7.87 ng	252253	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	86
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Tridecanoic acid	214	C13H26O2	000638-53-9	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

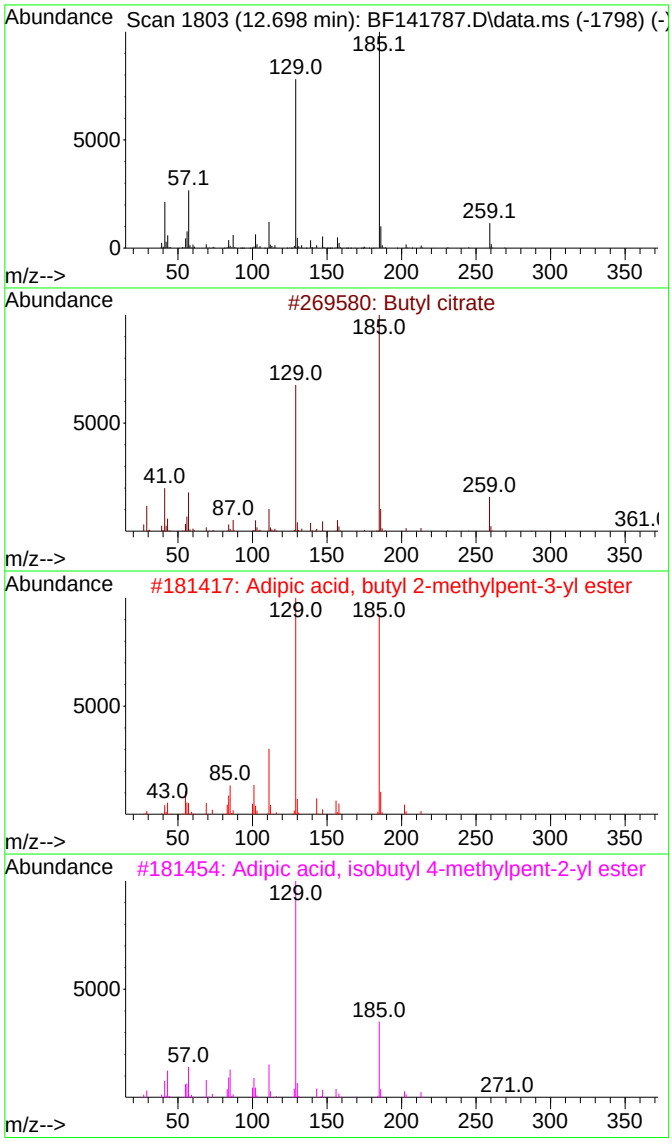
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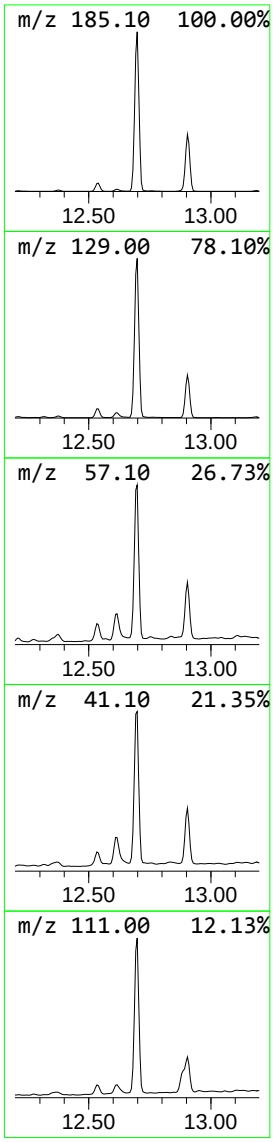
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 Adipic acid, butyl 2-methyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.698	44.71 ng	1038930	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	81
2	Adipic acid, butyl 2-methylpent-...	286	C16H30O4	1010353-55-8	72
3	Adipic acid, isobutyl 4-methylpe...	286	C16H30O4	1000353-50-1	64
4	O-Methyl-DL-serine, N-dimethylam...	230	C11H22N2O3	1000375-99-5	64
5	Adipic acid, isobutyl 3-pentyl e...	272	C15H28O4	1000324-60-4	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

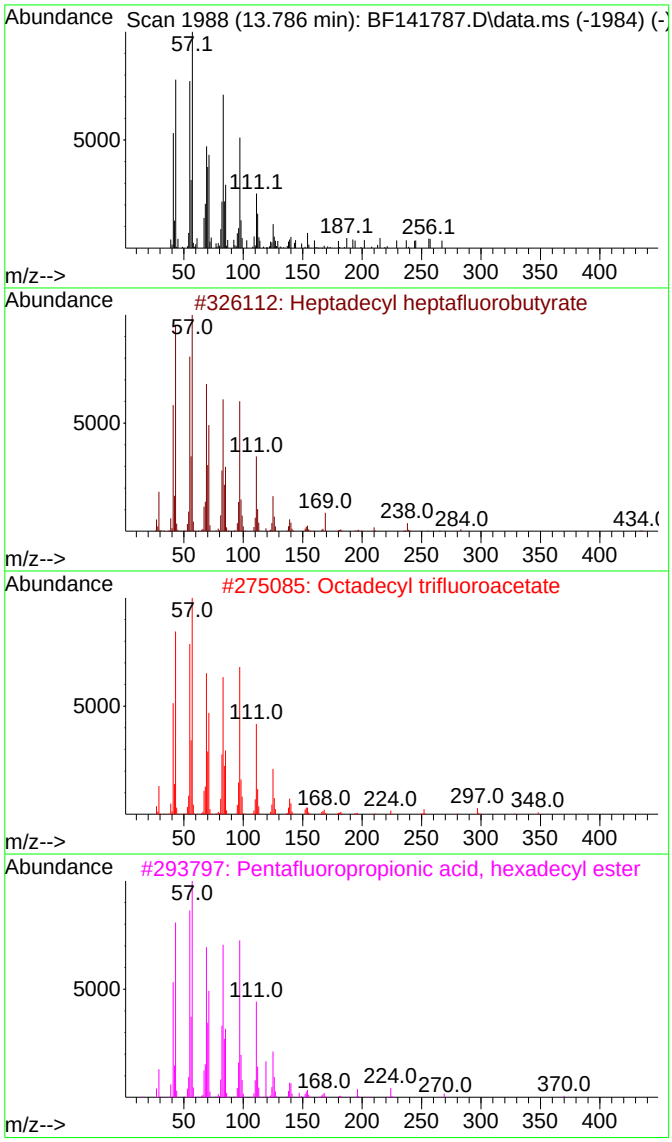
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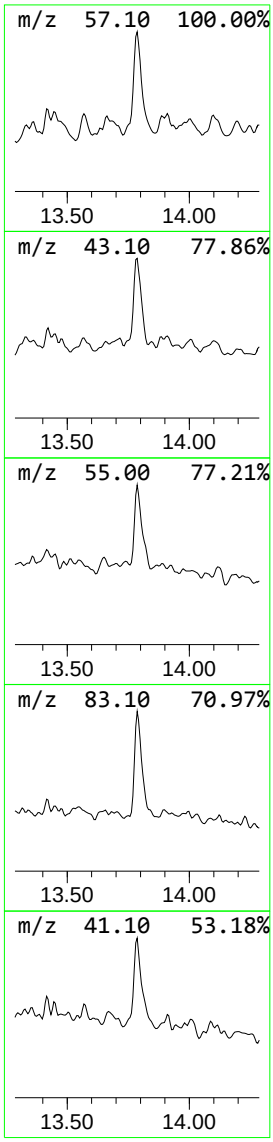
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Peak Number 19 Heptadecyl heptafluorobutyrate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	4.84 ng	112401	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	90
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	87
3	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	87
4	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	87
5	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	87





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On    : 26 Feb 2025  17:27
Operator  : RC/JU
Sample    : Q1415-06
Misc      :
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P
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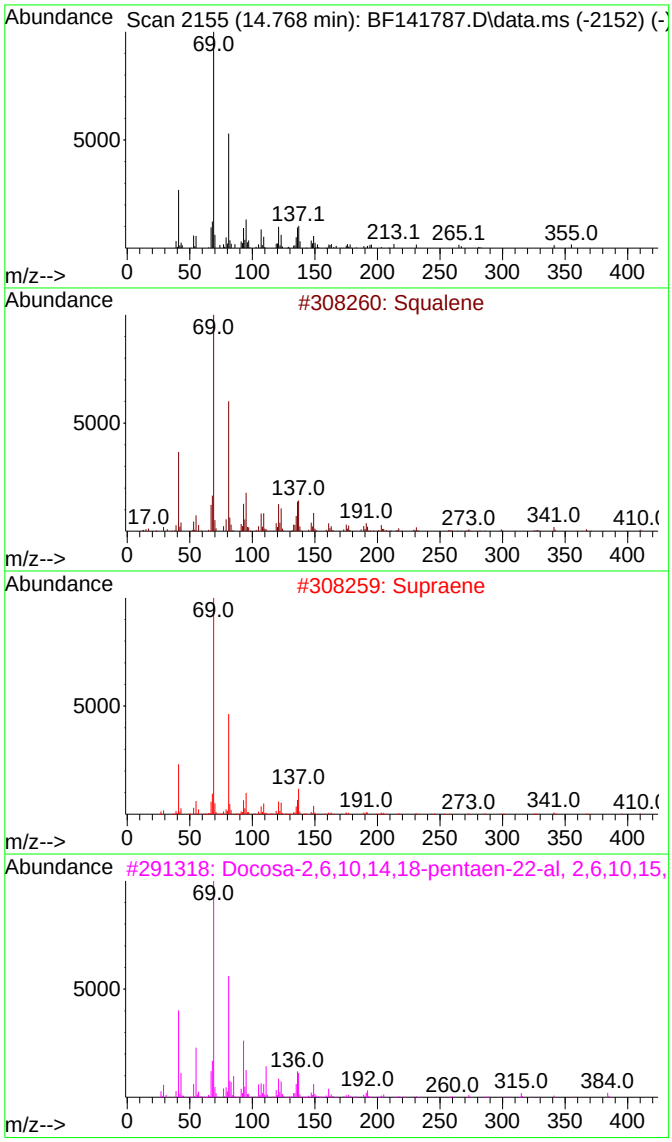
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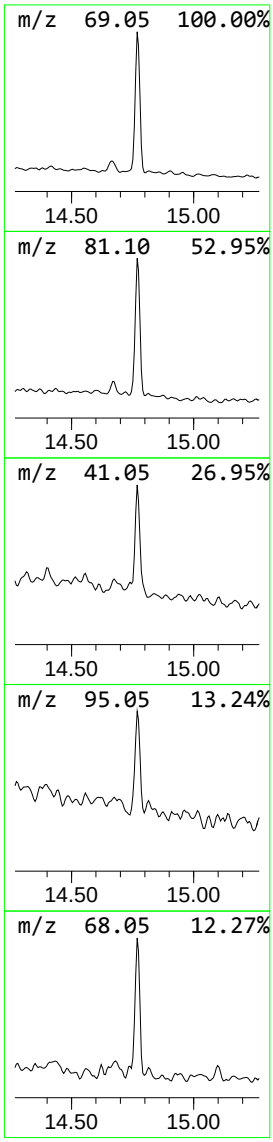
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Peak Number 20 Squalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.768	2.87 ng	64364	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	000111-02-4	90
2	Supraene	410	C30H50	007683-64-9	80
3	Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	78
4	2,6,10,14-Hexadecatetraenoic aci...	332	C22H36O2	024035-35-6	72
5	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown2.263	2.263	2.1	ng	44840	1	6.781	426482	20.0
2-Pentanone, 4-...	4.975	2.2	ng	47552	1	6.781	426482	20.0
Ethanol, 2-butoxy-	5.728	3.0	ng	63864	1	6.781	426482	20.0
Decane	6.610	4.4	ng	94784	1	6.781	426482	20.0
1-Isobutoxy-2-e...	6.840	8.0	ng	169520	1	6.781	426482	20.0
Naphthalene, de...	7.169	2.9	ng	61645	1	6.781	426482	20.0
unknown8.357	8.357	3.2	ng	144734	2	8.063	895547	20.0
Sulfurous acid,...	8.481	4.1	ng	183078	2	8.063	895547	20.0
Tridecane	8.651	9.2	ng	412546	2	8.063	895547	20.0
Tetradecane	9.216	7.4	ng	238575	3	9.810	646496	20.0
unknown9.739	9.739	2.3	ng	73229	3	9.810	646496	20.0
1H-Benzotriazol...	9.986	9.1	ng	293293	3	9.810	646496	20.0
Benzophenone	10.528	18.9	ng	610172	3	9.810	646496	20.0
Methanone, (1-h...	10.833	4.2	ng	135954	4	11.298	640740	20.0
1,2-Benzenedica...	11.663	4.8	ng	153238	4	11.298	640740	20.0
Butyl citrate	12.533	3.2	ng	103121	4	11.298	640740	20.0
Octadecanoic acid	12.616	7.9	ng	252253	4	11.298	640740	20.0
Adipic acid, bu...	12.698	44.7	ng	1038930	5	13.939	464694	20.0
Heptadecyl hept...	13.786	4.8	ng	112401	5	13.939	464694	20.0
Squalene	14.768	2.9	ng	64364	6	15.386	449071	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

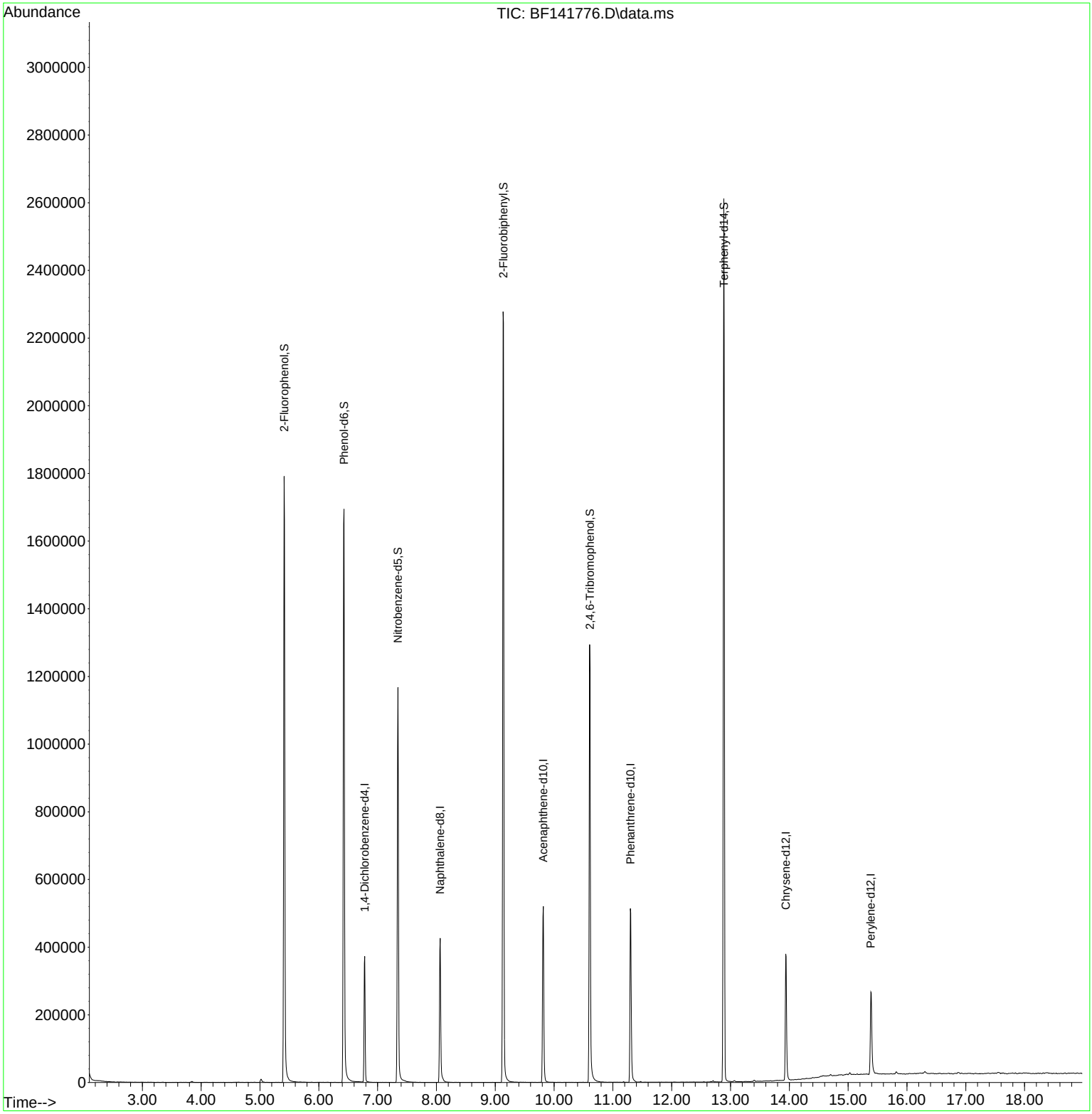
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	81286	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	323646	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	177621	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	318142	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	217249	20.000	ng	-0.02
86) Perylene-d12	15.386	264	172479	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	728584	140.520	ng	0.00
7) Phenol-d6	6.428	99	871422	132.975	ng	-0.01
23) Nitrobenzene-d5	7.345	82	562566	90.662	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	241346	135.262	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1118399	97.007	ng	-0.01
79) Terphenyl-d14	12.886	244	1339199	104.065	ng	-0.02
Target Compounds						Qvalue

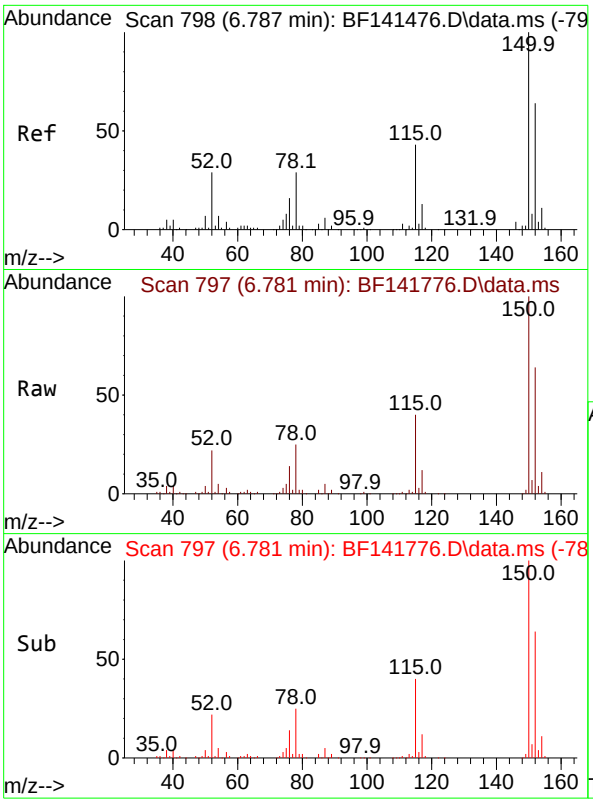
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



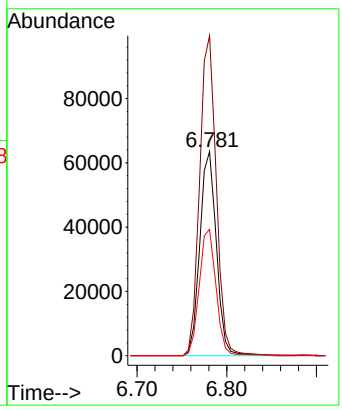


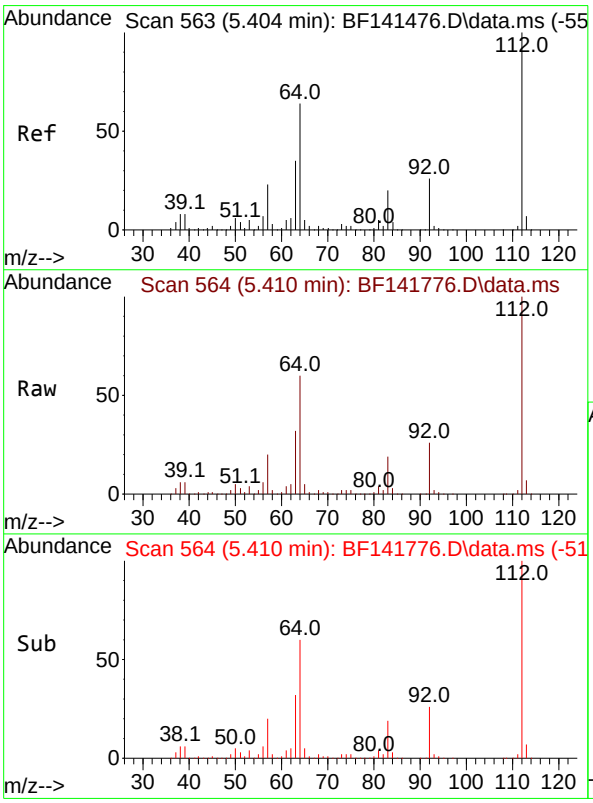
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:152 Resp: 81286

Ion	Ratio	Lower	Upper
152	100		
150	156.7	125.0	187.4
115	61.9	53.6	80.4

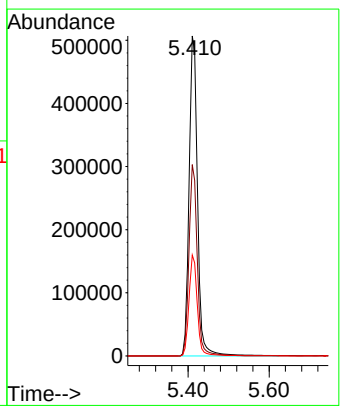


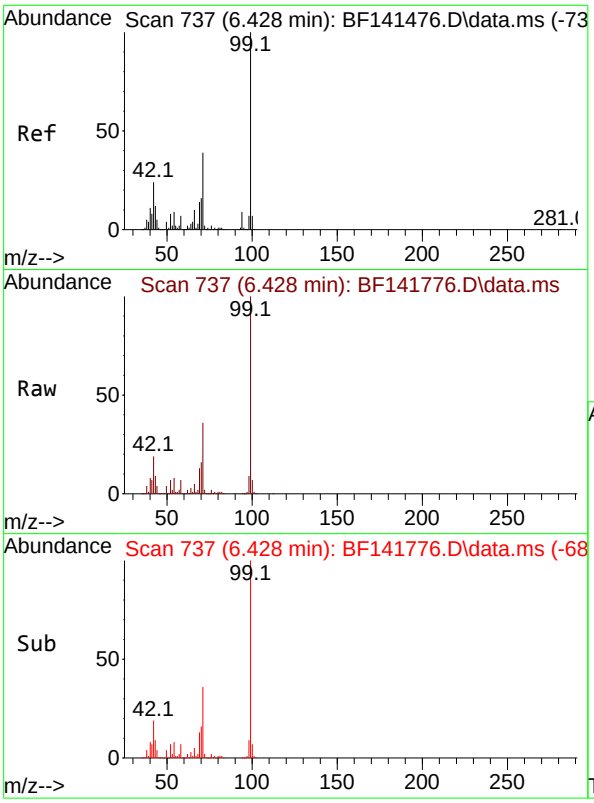


#5
2-Fluorophenol
Concen: 140.520 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:112 Resp: 728584

Ion	Ratio	Lower	Upper
112	100		
64	59.8	51.1	76.7
63	31.6	28.4	42.6



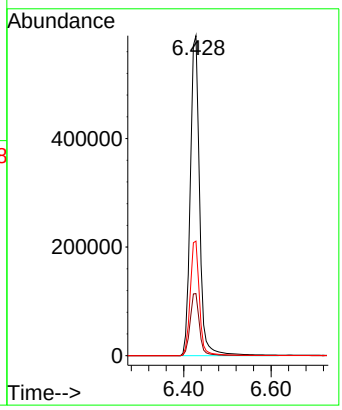


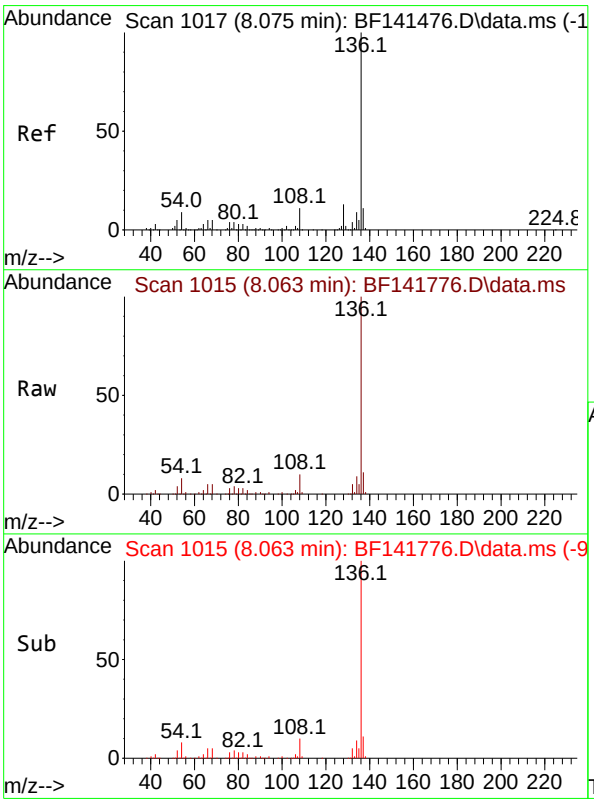
#7
Phenol-d6
Concen: 132.975 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion: 99 Resp: 871422

Ion	Ratio	Lower	Upper
99	100		
42	19.4	19.1	28.7
71	35.8	31.1	46.7

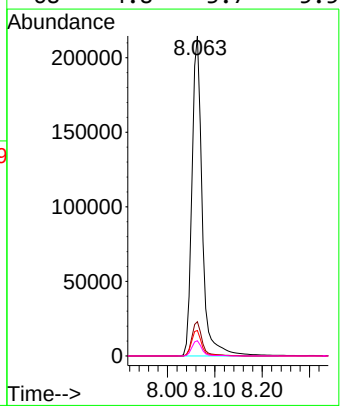


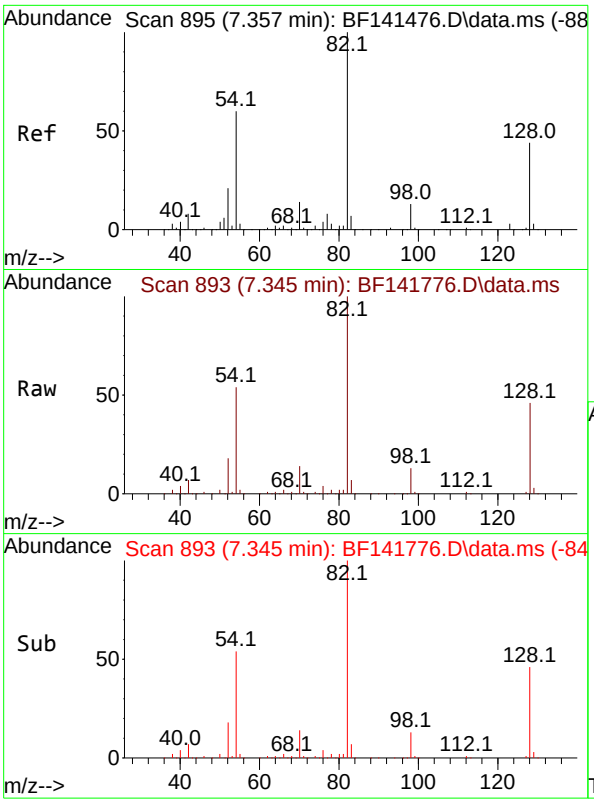


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:136 Resp: 323646

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	7.9	7.2	10.8
68	4.8	3.7	5.5



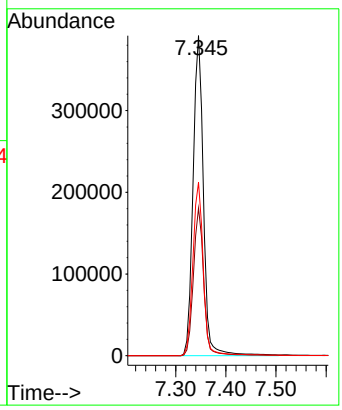


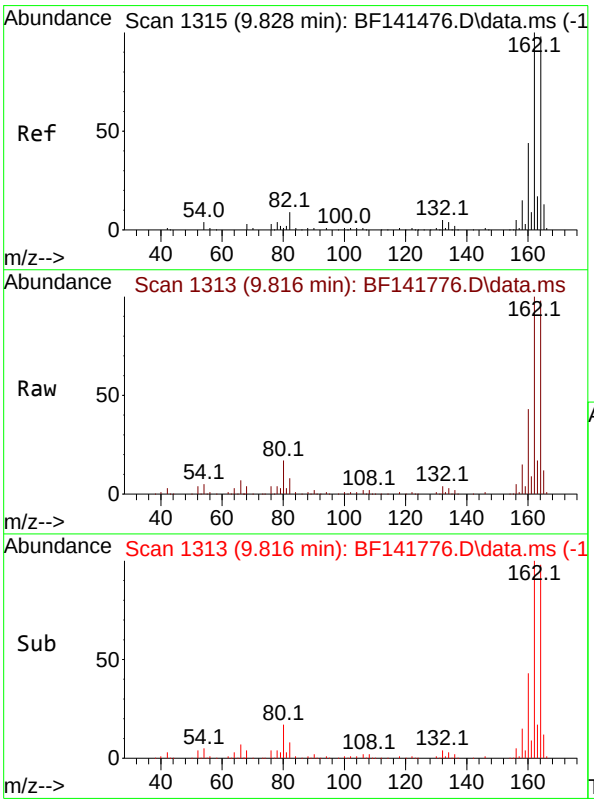
#23
Nitrobenzene-d5
Concen: 90.662 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion: 82 Resp: 562566

Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.8	52.2
54	54.1	48.2	72.4

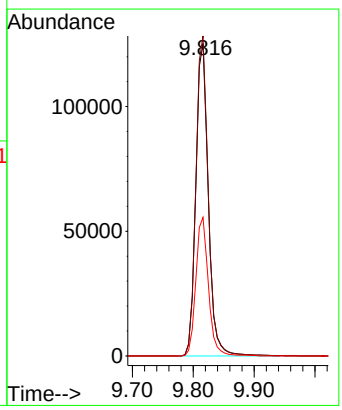


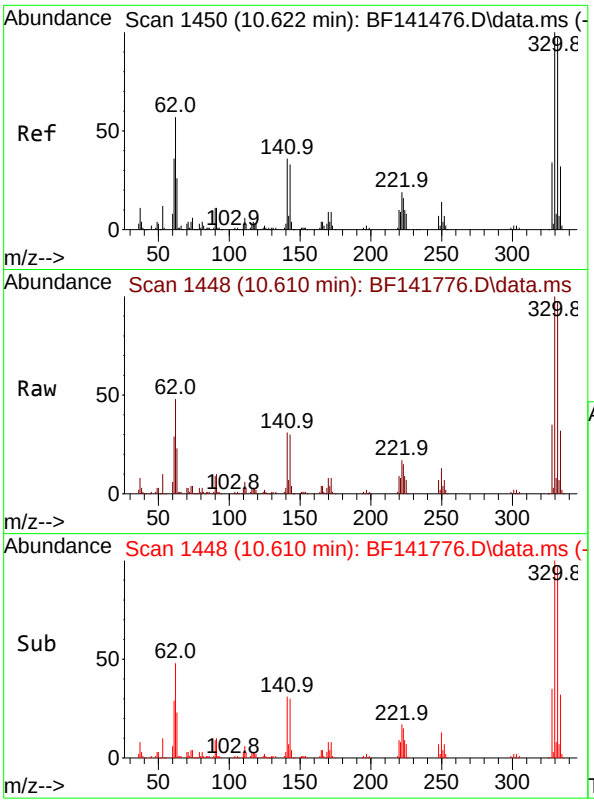


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:164 Resp: 177621

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.3	121.9
160	44.4	35.9	53.9



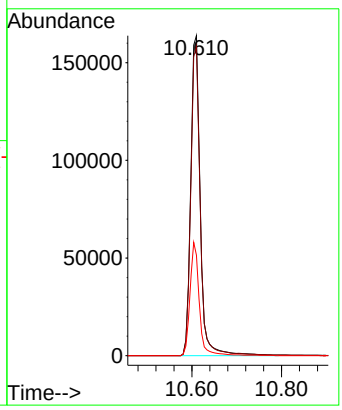


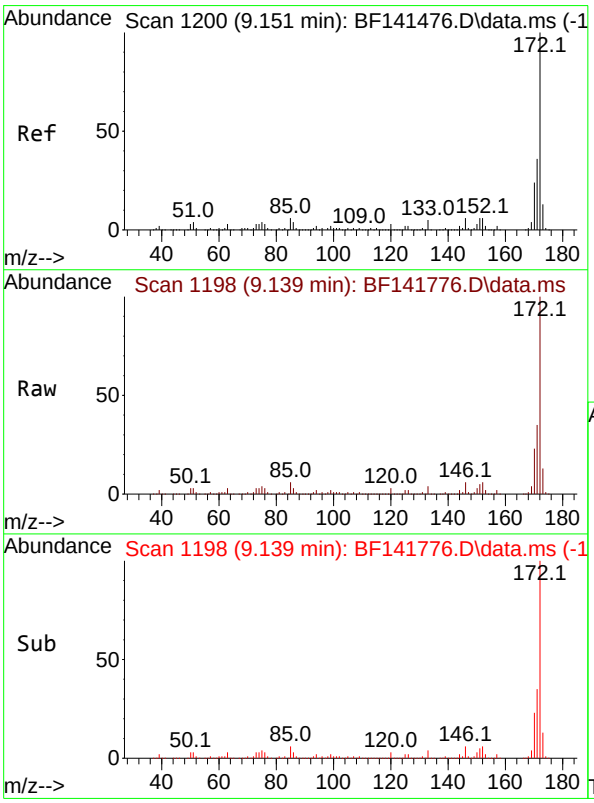
#42
2,4,6-Tribromophenol
Concen: 135.262 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:330 Resp: 241346

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.5	117.7
141	34.8	31.0	46.4

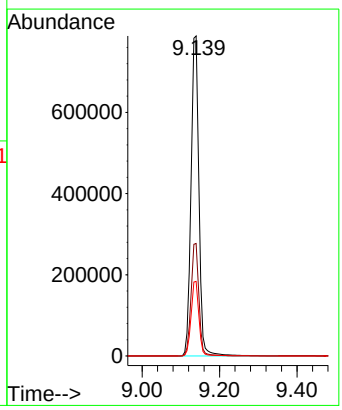


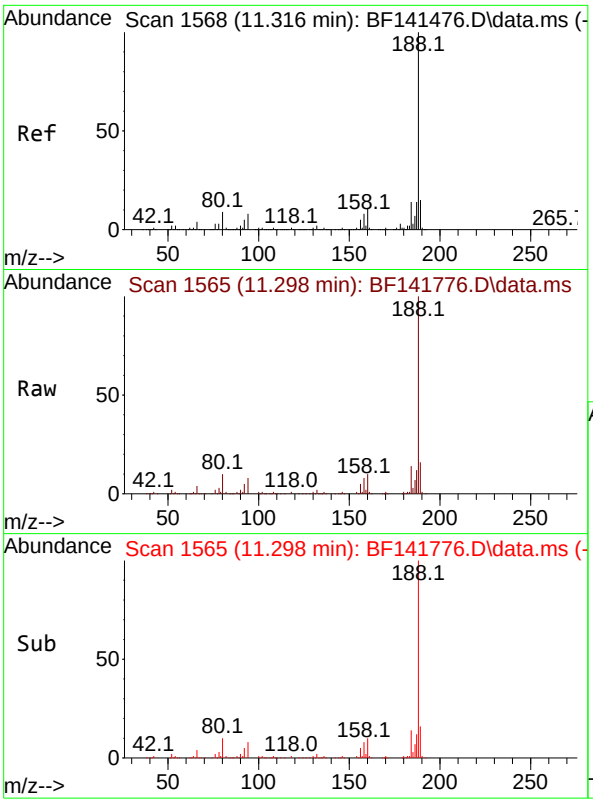


#45
2-Fluorobiphenyl
Concen: 97.007 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:172 Resp: 1118399

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.7	43.1
170	23.3	18.9	28.3



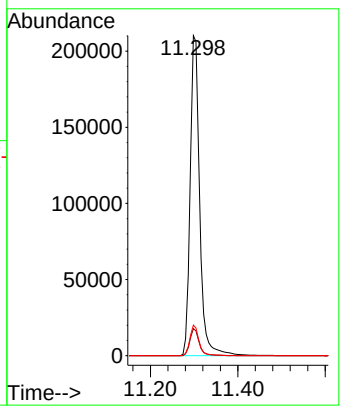


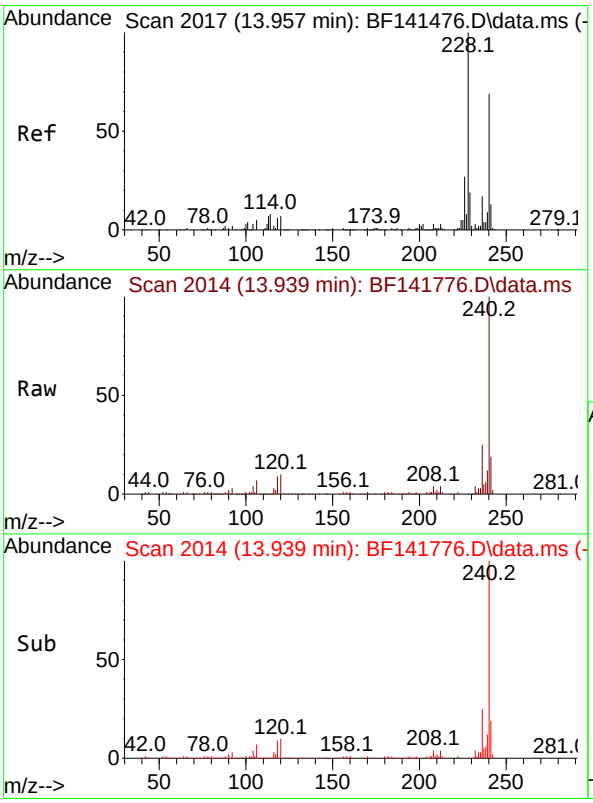
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:188 Resp: 318142

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.6	7.3	10.9

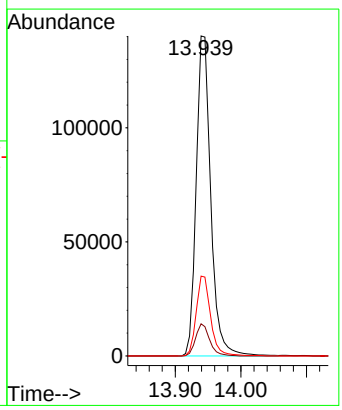


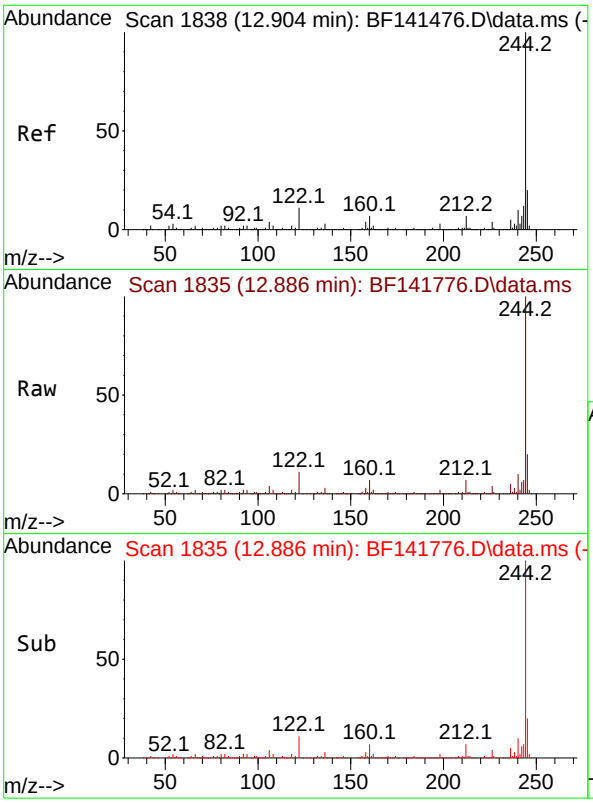


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:240 Resp: 217249

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	24.9	19.8	29.8



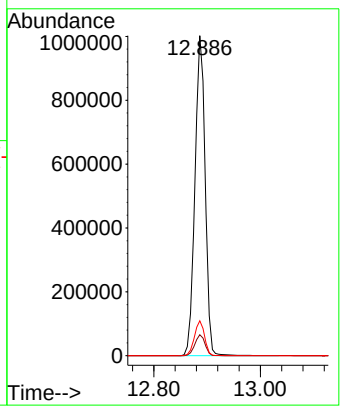


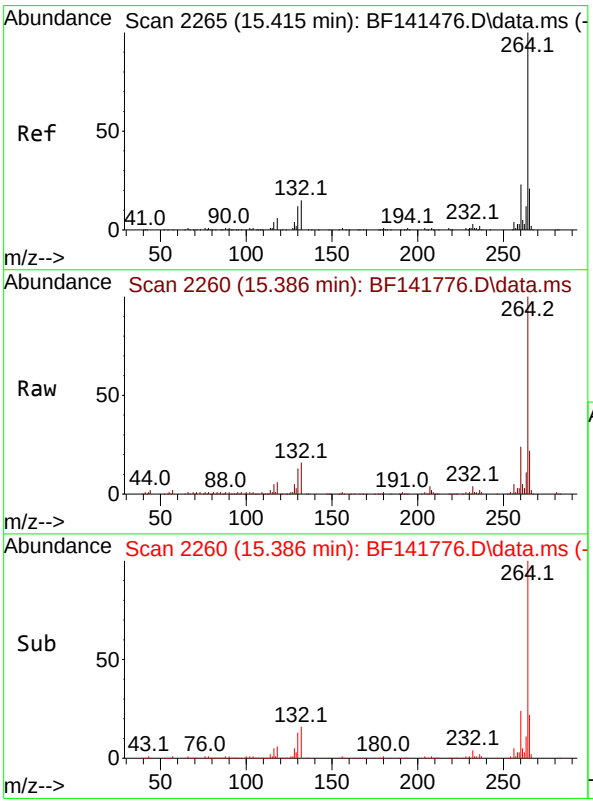
#79
Terphenyl-d14
Concen: 104.065 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:244 Resp: 1339199

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.9	8.4	12.6

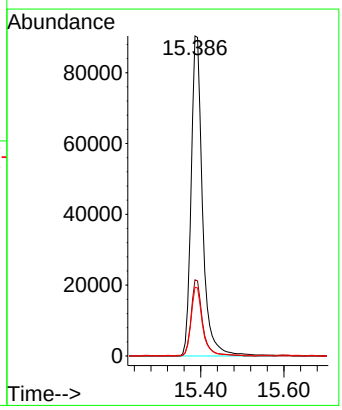




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:264 Resp: 172479

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	21.5	17.0	25.4



Sample Results: **BF141776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141776.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.410	559	564	592	rBV	1791256	2537814	73.52%	13.446%
2	6.428	731	737	771	rBV	1693710	2506219	72.61%	13.279%
3	6.781	792	797	813	rVB	371805	480196	13.91%	2.544%
4	7.345	887	893	922	rBV	1167216	1673975	48.50%	8.869%
5	8.063	1009	1015	1034	rBV	426239	631629	18.30%	3.347%
6	9.134	1191	1197	1231	rBV	2277833	3198026	92.65%	16.945%
7	9.816	1307	1313	1334	rBV	520195	734935	21.29%	3.894%
8	10.604	1442	1447	1479	rBV	1293803	1878893	54.43%	9.955%
9	11.298	1560	1565	1585	rBV	513083	761297	22.06%	4.034%
10	12.886	1829	1835	1840	rBV	2609654	3451671	100.00%	18.288%
11	13.939	2009	2014	2029	rBV	373186	562712	16.30%	2.981%
12	15.386	2254	2260	2272	rBV	243364	456086	13.21%	2.417%

Sum of corrected areas: 18873453

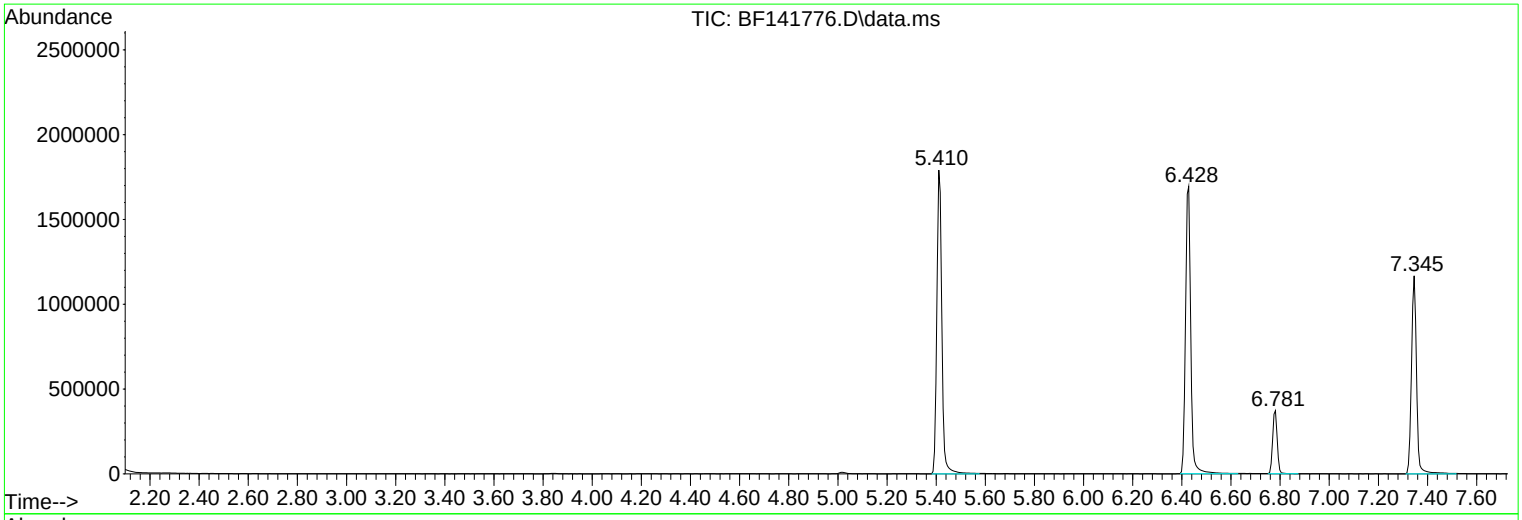
Sample Results: **BF141776.D**

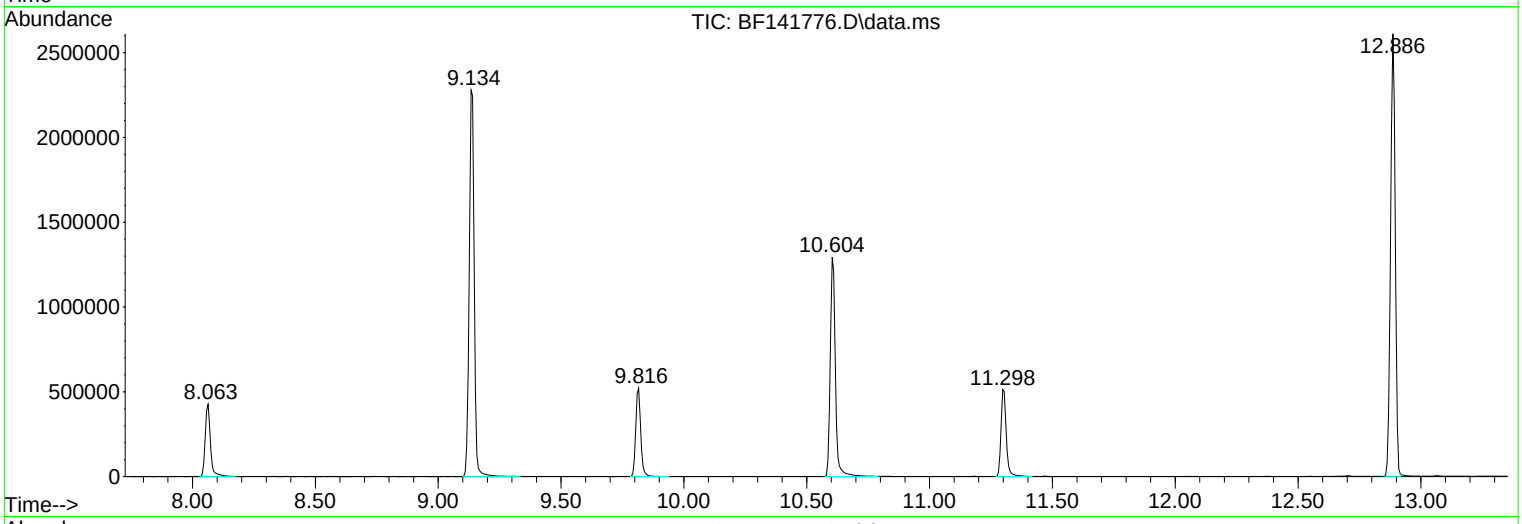
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

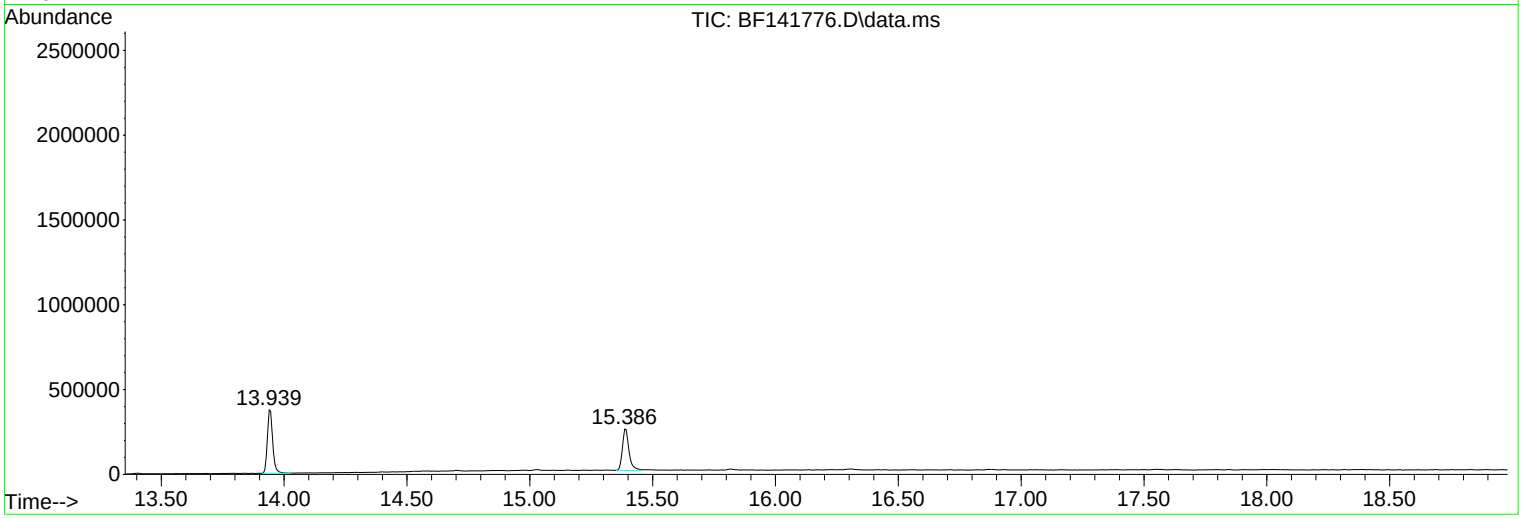
Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Time: Feb 26 14:15:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

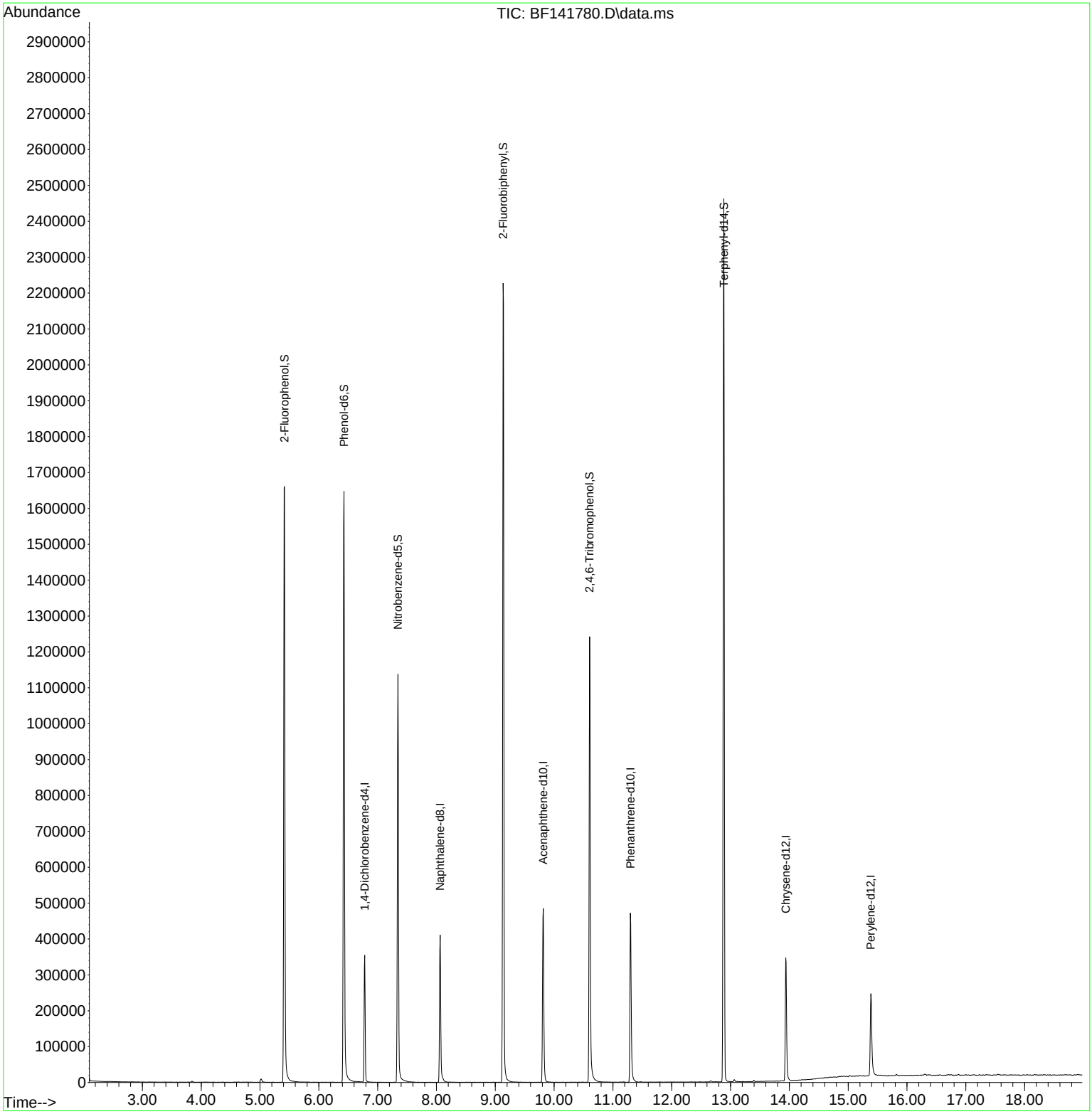
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	76736	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	309972	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	172156	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	297565	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	205070	20.000	ng	-0.02
86) Perylene-d12	15.386	264	168978	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	690992	141.172	ng	0.00
7) Phenol-d6	6.428	99	838878	135.599	ng	-0.01
23) Nitrobenzene-d5	7.345	82	543627	91.475	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	229764	132.859	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	1079942	96.645	ng	-0.02
79) Terphenyl-d14	12.886	244	1286585	105.914	ng	-0.02
Target Compounds						Qvalue

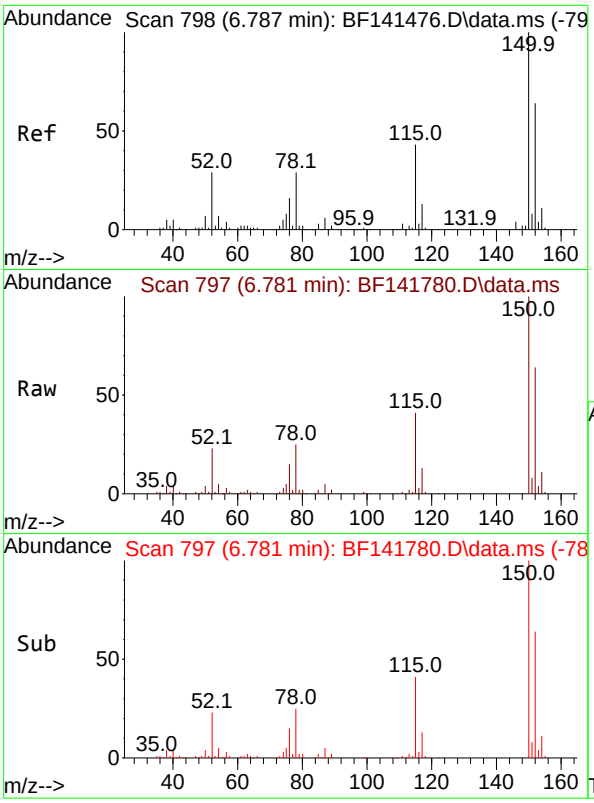
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Time: Feb 26 14:15:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



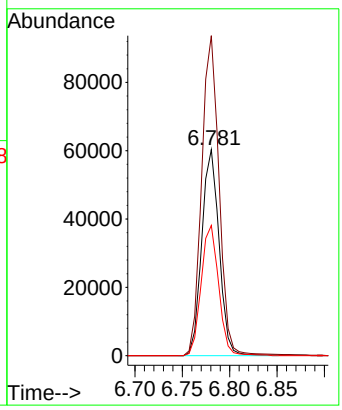


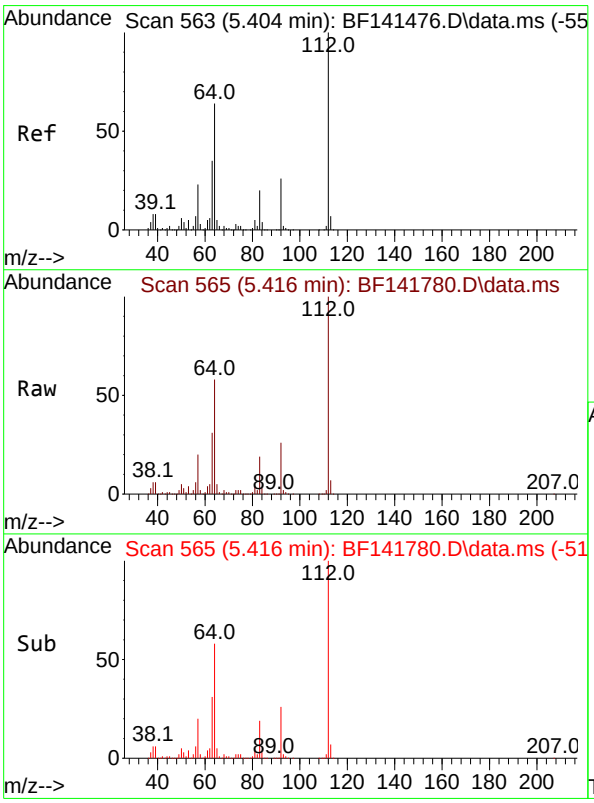
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:152 Resp: 76736

Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.0	187.4
115	63.2	53.6	80.4

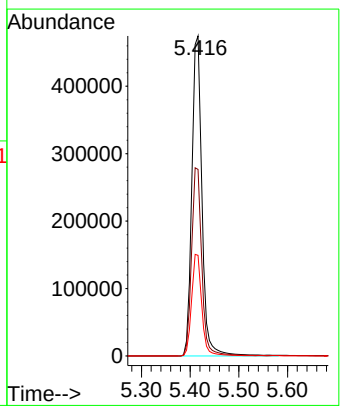


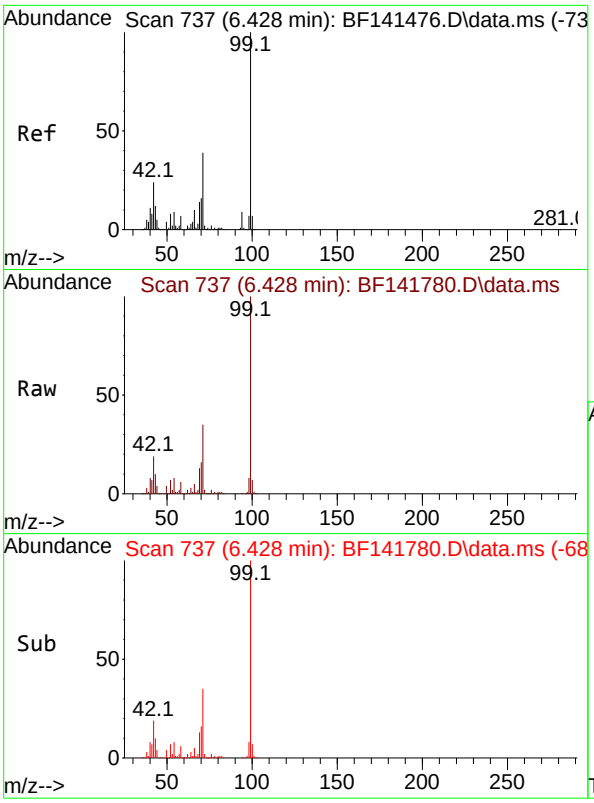


#5
2-Fluorophenol
Concen: 141.172 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:112 Resp: 690992

Ion	Ratio	Lower	Upper
112	100		
64	58.3	51.1	76.7
63	31.4	28.4	42.6



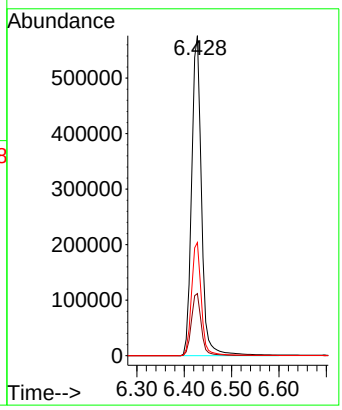


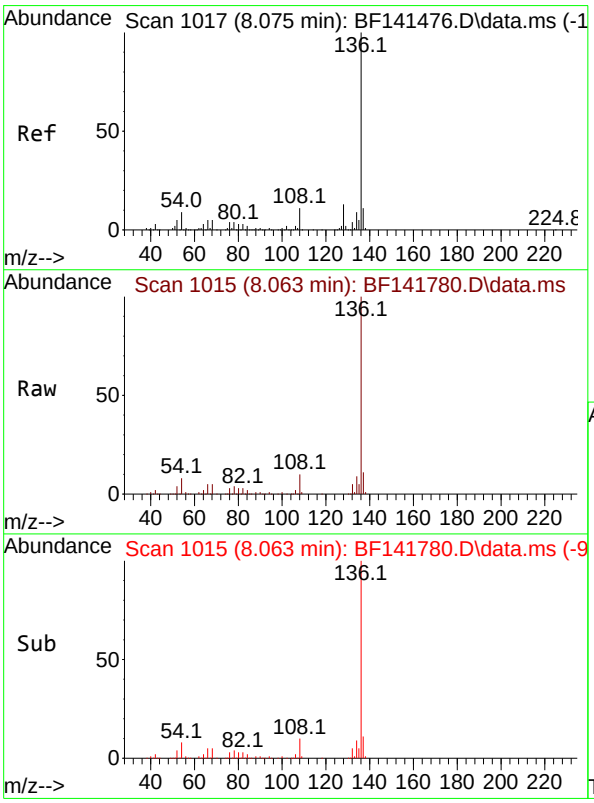
#7
Phenol-d6
Concen: 135.599 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion: 99 Resp: 838878

Ion	Ratio	Lower	Upper
99	100		
42	19.4	19.1	28.7
71	35.3	31.1	46.7

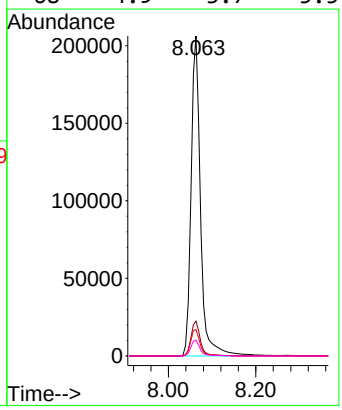


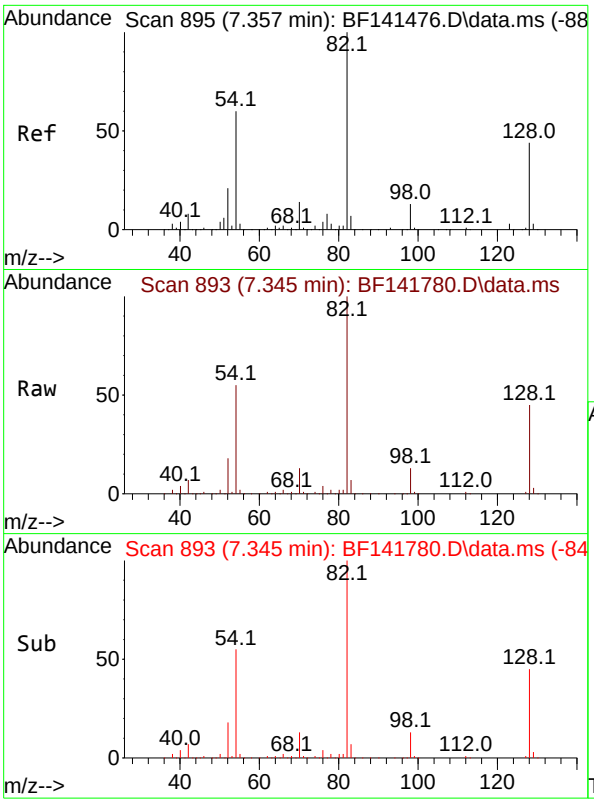


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:136 Resp: 309972

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.3	7.2	10.8
68	4.9	3.7	5.5



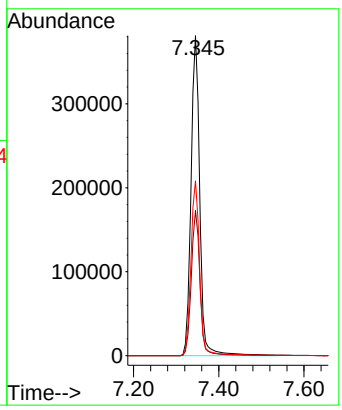


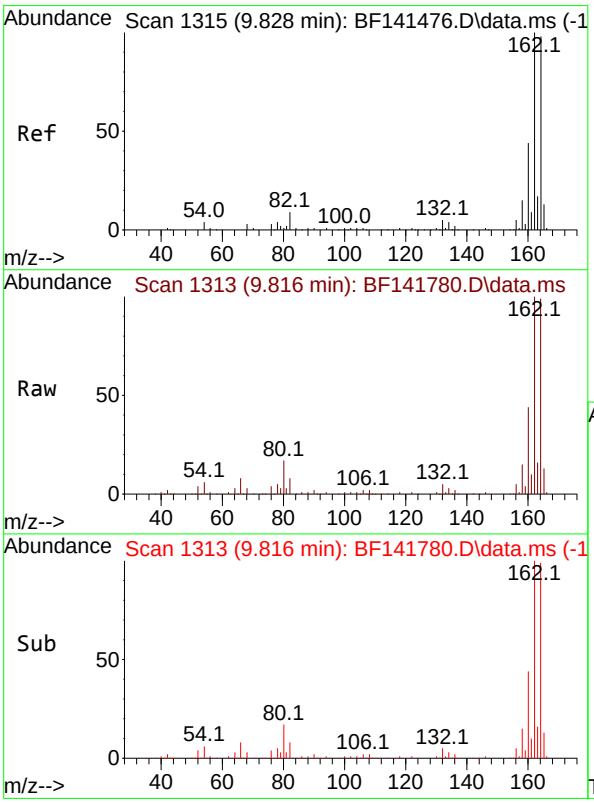
#23
Nitrobenzene-d5
Concen: 91.475 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion: 82 Resp: 543627

Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.8	52.2
54	54.6	48.2	72.4

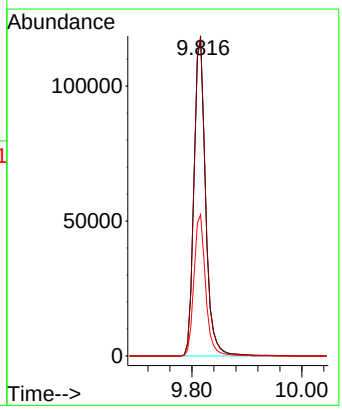


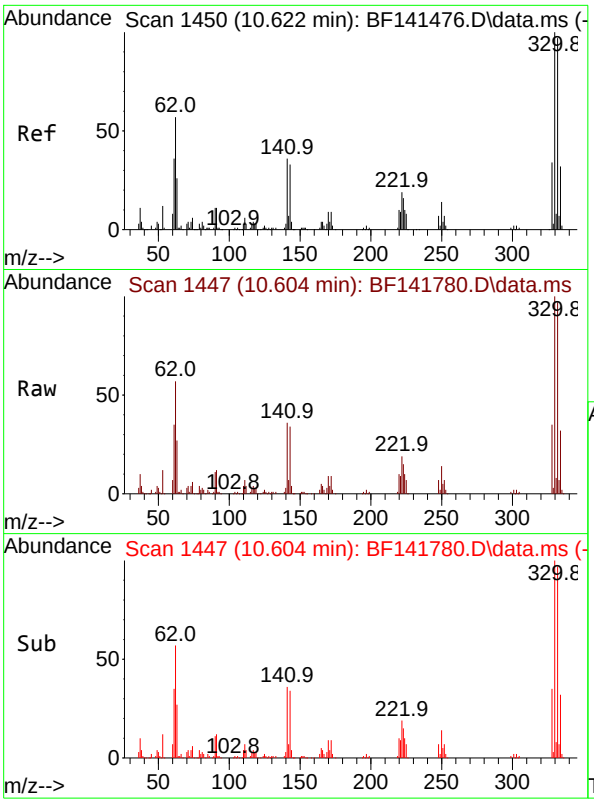


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:164 Resp: 172156

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.3	121.9
160	44.6	35.9	53.9



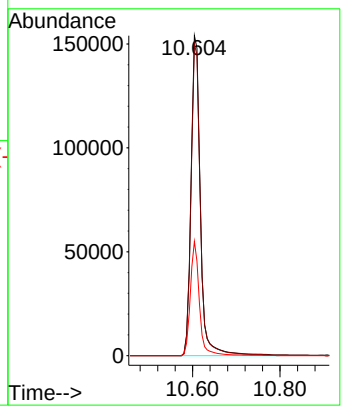


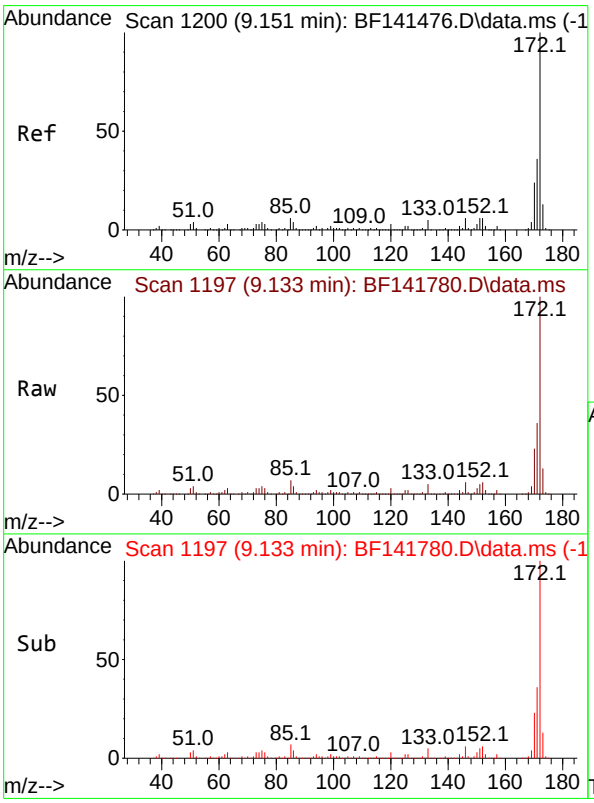
#42
2,4,6-Tribromophenol
Concen: 132.859 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:330 Resp: 229764

Ion	Ratio	Lower	Upper
330	100		
332	97.4	78.5	117.7
141	34.7	31.0	46.4

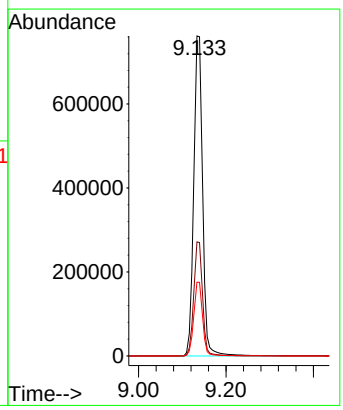


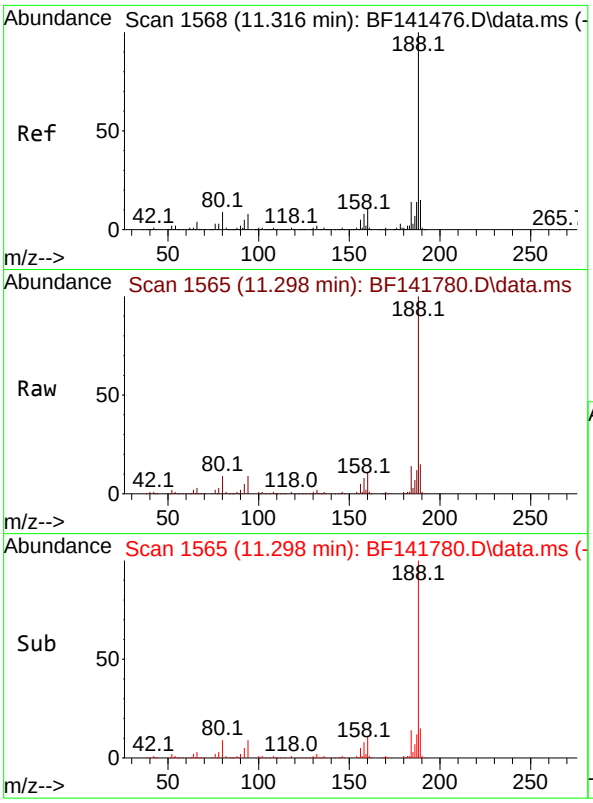


#45
2-Fluorobiphenyl
Concen: 96.645 ng
RT: 9.133 min Scan# 1197
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:172 Resp: 1079942

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.7	43.1
170	23.1	18.9	28.3



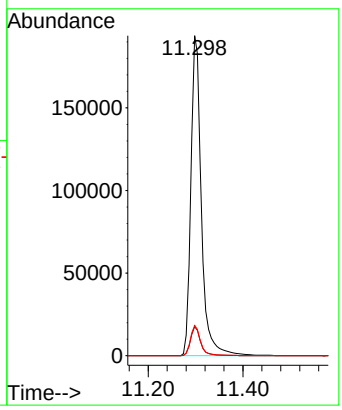


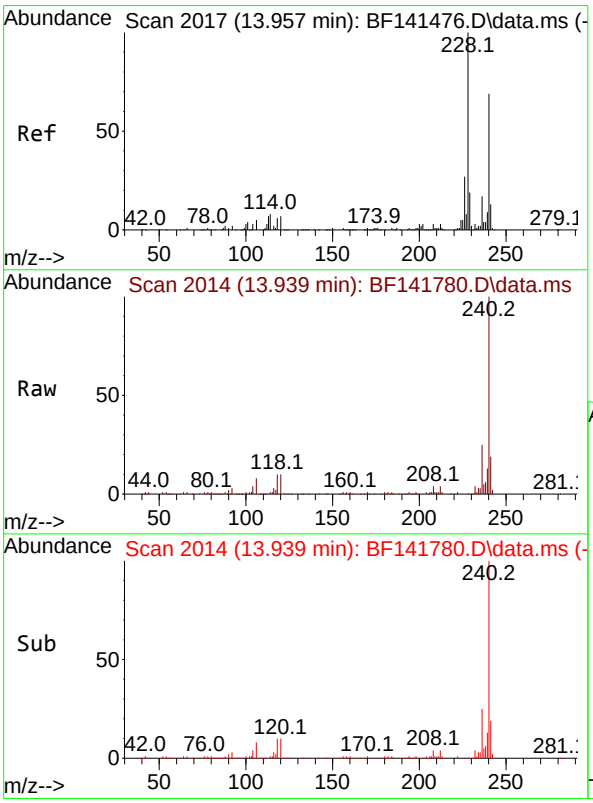
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:188 Resp: 297565

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.5	7.3	10.9

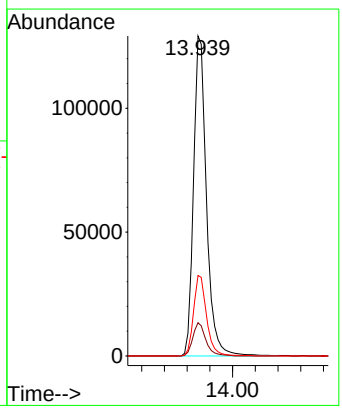


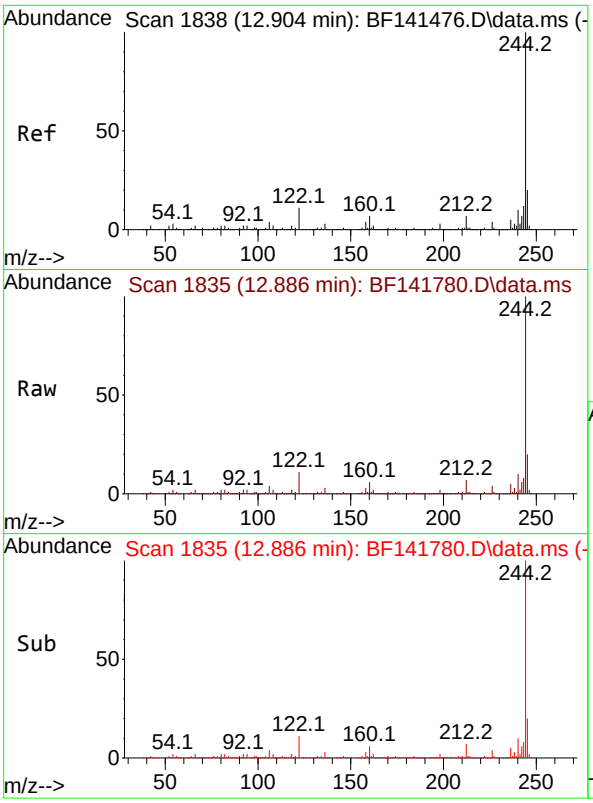


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:240 Resp: 205070

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.0	12.0
236	25.1	19.8	29.8



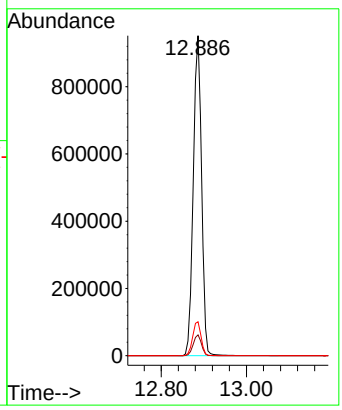


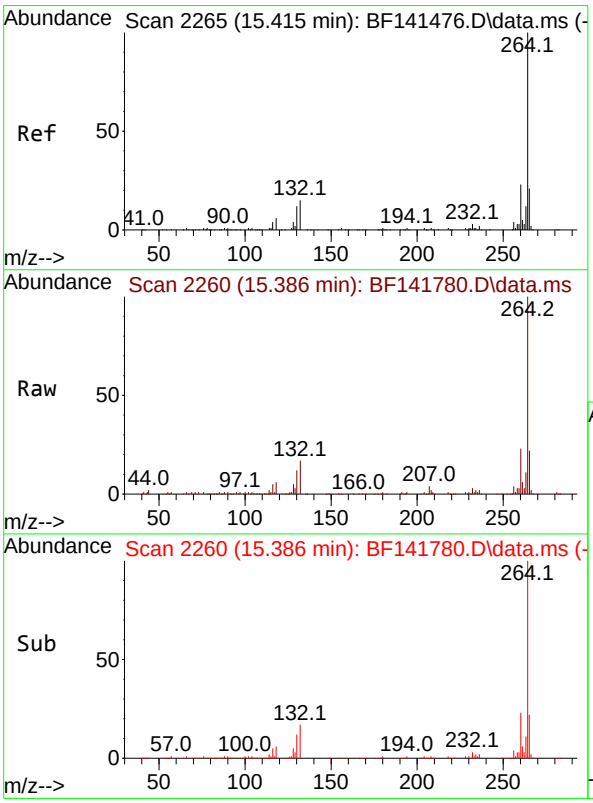
#79
Terphenyl-d14
Concen: 105.914 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:244 Resp: 1286585

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.6	8.4	12.6

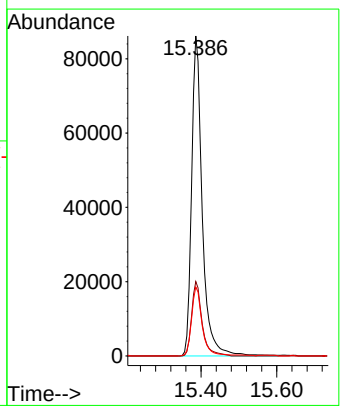




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:264 Resp: 168978

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.6	17.0	25.4



Sample Results: **BF141780.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141780.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.416	559	565	590	rBV	1659137	2438000	73.46%	13.449%
2	6.428	731	737	766	rBV	1646884	2406444	72.51%	13.275%
3	6.781	792	797	811	rVB	353647	450721	13.58%	2.486%
4	7.345	887	893	924	rBV	1137657	1618662	48.78%	8.929%
5	8.063	1009	1015	1040	rBV	410466	607975	18.32%	3.354%
6	9.133	1191	1197	1227	rBV	2227208	3096525	93.31%	17.082%
7	9.816	1307	1313	1327	rBV	484181	705275	21.25%	3.891%
8	10.604	1442	1447	1475	rBV	1242034	1794300	54.07%	9.898%
9	11.298	1560	1565	1588	rBV	471487	715714	21.57%	3.948%
10	12.886	1829	1835	1848	rBV	2460799	3318618	100.00%	18.307%
11	13.939	2009	2014	2031	rBV	343084	539706	16.26%	2.977%
12	15.386	2254	2260	2279	rBV	228373	435941	13.14%	2.405%

Sum of corrected areas: 18127881

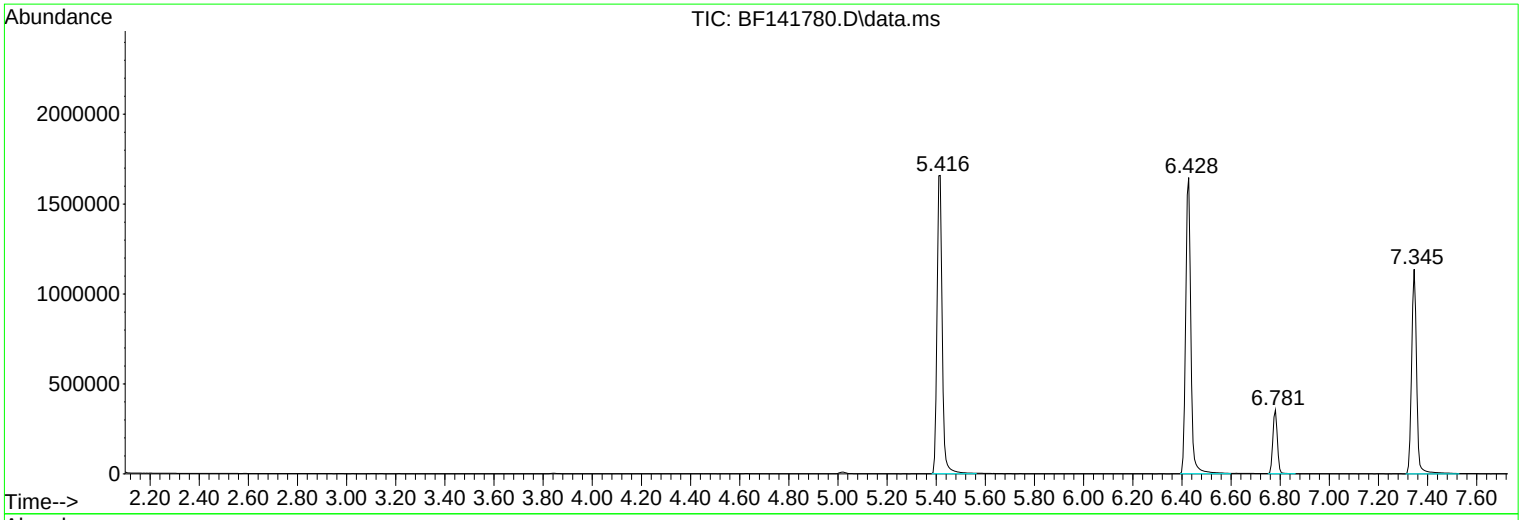
Sample Results: **BF141780.D**

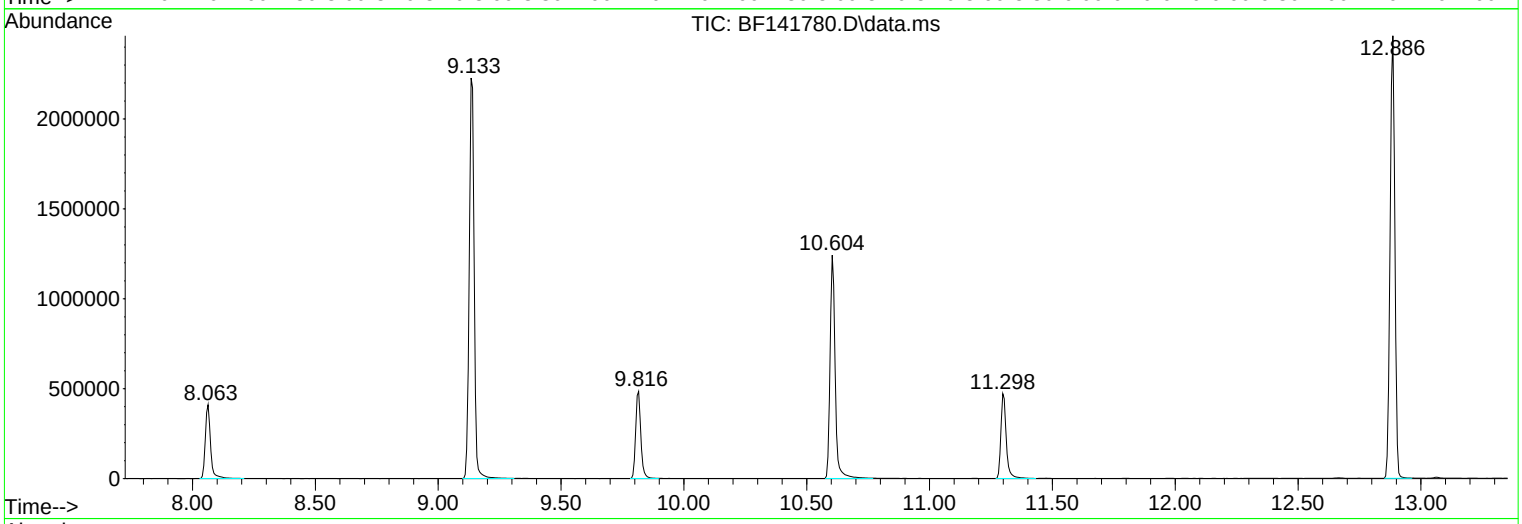
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

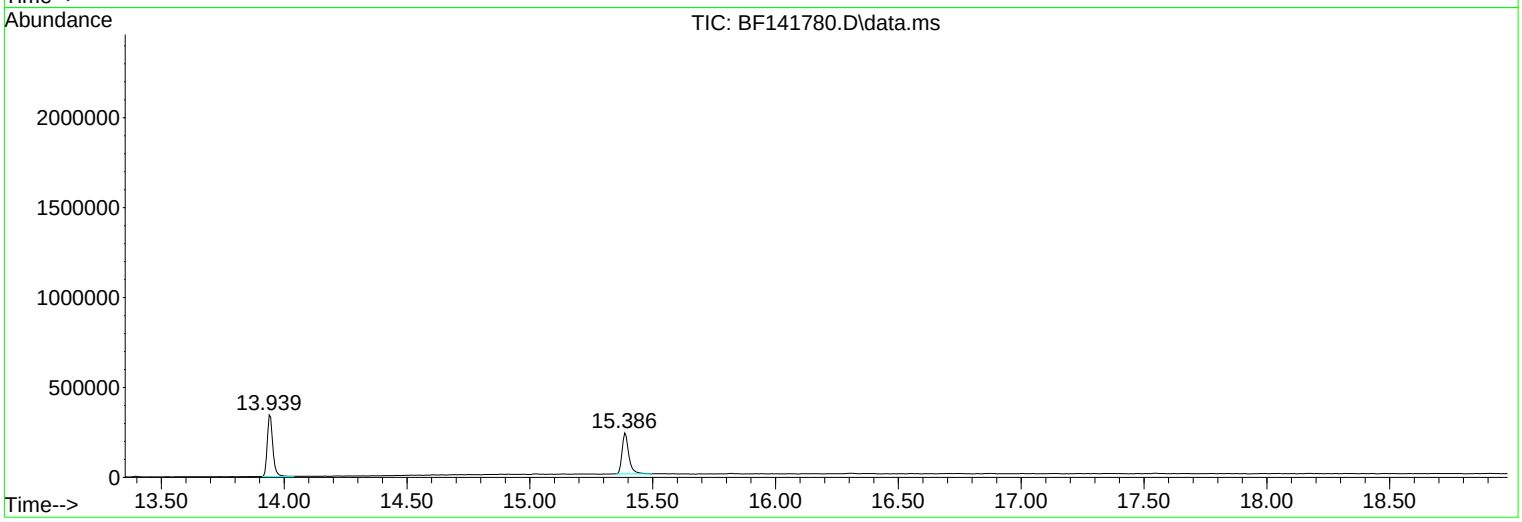
Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	81688	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	331787	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	180365	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	319305	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	191917	20.000	ng		-0.02
86) Perylene-d12	15.386	264	177241	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	716848	137.576	ng		0.00
7) Phenol-d6	6.428	99	865294	131.390	ng		-0.01
23) Nitrobenzene-d5	7.351	82	558919	87.864	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	262131	144.676	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1122463	95.879	ng		-0.01
79) Terphenyl-d14	12.886	244	1319483	116.067	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.569	88	86876	41.426	ng		94
3) Pyridine	3.304	79	204895	41.058	ng		91
4) n-Nitrosodimethylamine	3.252	42	121475	36.762	ng		87
6) Aniline	6.445	93	218407	35.354	ng	#	73
8) 2-Chlorophenol	6.575	128	257670	45.766	ng		97
9) Benzaldehyde	6.334	77	100149	28.617	ng		97
10) Phenol	6.445	94	297590	43.416	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	236565	45.949	ng		97
12) 1,3-Dichlorobenzene	6.722	146	268531	45.177	ng		97
13) 1,4-Dichlorobenzene	6.798	146	269542	44.384	ng		99
14) 1,2-Dichlorobenzene	6.951	146	260378	46.195	ng		99
15) Benzyl Alcohol	6.928	79	214872	42.547	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	344765	39.119	ng		61
17) 2-Methylphenol	7.051	107	195576	44.389	ng		94
18) Hexachloroethane	7.287	117	100289	44.622	ng		97
19) n-Nitroso-di-n-propyla...	7.198	70	171908	43.639	ng		91
20) 3+4-Methylphenols	7.204	107	257970	46.071	ng	#	75
22) Acetophenone	7.192	105	390944	47.368	ng	#	91
24) Nitrobenzene	7.369	77	259378	41.815	ng		96
25) Isophorone	7.604	82	462376	45.587	ng		98
26) 2-Nitrophenol	7.681	139	138079	44.743	ng		92
27) 2,4-Dimethylphenol	7.728	122	201881	55.997	ng		97
28) bis(2-Chloroethoxy)met...	7.816	93	290160	44.645	ng		100
29) 2,4-Dichlorophenol	7.934	162	216937	44.535	ng		98
30) 1,2,4-Trichlorobenzene	8.004	180	233773	44.071	ng		99
31) Naphthalene	8.086	128	740758	42.891	ng		99
32) Benzoic acid	7.875	122	136752	36.518	ng		97
33) 4-Chloroaniline	8.139	127	134615	22.325	ng		97
34) Hexachlorobutadiene	8.198	225	142354	44.702	ng		99
35) Caprolactam	8.516	113	76597m	51.646	ng		
36) 4-Chloro-3-methylphenol	8.633	107	234899	43.534	ng		100
37) 2-Methylnaphthalene	8.775	142	471459	41.950	ng		99
38) 1-Methylnaphthalene	8.875	142	460135	42.273	ng		99
40) 1,2,4,5-Tetrachloroben...	8.945	216	261645	50.141	ng		98
41) Hexachlorocyclopentadiene	8.928	237	221790	127.788	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	150125	44.513	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	162948	44.581	ng	97
46) 1,1'-Biphenyl	9.239	154	686888	49.122	ng	99
47) 2-Chloronaphthalene	9.263	162	470296	45.482	ng	99
48) 2-Nitroaniline	9.369	65	146947	42.345	ng	89
49) Acenaphthylene	9.681	152	721764	46.929	ng	99
50) Dimethylphthalate	9.539	163	571666	46.687	ng	99
51) 2,6-Dinitrotoluene	9.610	165	125505	46.887	ng	92
52) Acenaphthene	9.851	154	448107	43.338	ng	99
53) 3-Nitroaniline	9.780	138	78775	27.343	ng	98
54) 2,4-Dinitrophenol	9.898	184	144884	91.073	ng	86
55) Dibenzofuran	10.022	168	650259	42.845	ng	98
56) 4-Nitrophenol	9.963	139	165178	77.235	ng	92
57) 2,4-Dinitrotoluene	10.016	165	167288	46.946	ng	99
58) Fluorene	10.369	166	534517	45.550	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	141879	45.087	ng	94
60) Diethylphthalate	10.239	149	555522	46.112	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	264126	46.786	ng	97
62) 4-Nitroaniline	10.398	138	129151	44.149	ng	93
63) Azobenzene	10.516	77	510011	42.585	ng	95
65) 4,6-Dinitro-2-methylph...	10.428	198	96796	43.640	ng	90
66) n-Nitrosodiphenylamine	10.480	169	466927	45.682	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	167414	46.912	ng	99
68) Hexachlorobenzene	10.916	284	174013	47.354	ng	98
69) Atrazine	11.010	200	183372	59.801	ng	99
70) Pentachlorophenol	11.116	266	172467	73.399	ng	100
71) Phenanthrene	11.327	178	795359	45.252	ng	100
72) Anthracene	11.380	178	834948	47.256	ng	100
73) Carbazole	11.539	167	713496	44.880	ng	99
74) Di-n-butylphthalate	11.863	149	878298	47.846	ng	99
75) Fluoranthene	12.516	202	832656	44.684	ng	99
77) Benzidine	12.639	184	212949	50.312	ng	99
78) Pyrene	12.745	202	829507	50.774	ng	99
80) Butylbenzylphthalate	13.357	149	311733	55.088	ng	98
81) Benzo(a)anthracene	13.933	228	616649	48.337	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	123372	33.760	ng	98
83) Chrysene	13.968	228	555284	47.140	ng	99
84) Bis(2-ethylhexyl)phtha...	13.916	149	394616	61.830	ng	100
85) Di-n-octyl phthalate	14.527	149	565858	62.150	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	565885	51.672	ng	99
88) Benzo(b)fluoranthene	14.968	252	481397	40.451	ng	99
89) Benzo(k)fluoranthene	14.998	252	411471	40.490	ng	99
90) Benzo(a)pyrene	15.327	252	468144	48.614	ng	98
91) Dibenzo(a,h)anthracene	16.839	278	461450	52.001	ng	99
92) Benzo(g,h,i)perylene	17.262	276	439909	47.372	ng	100

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

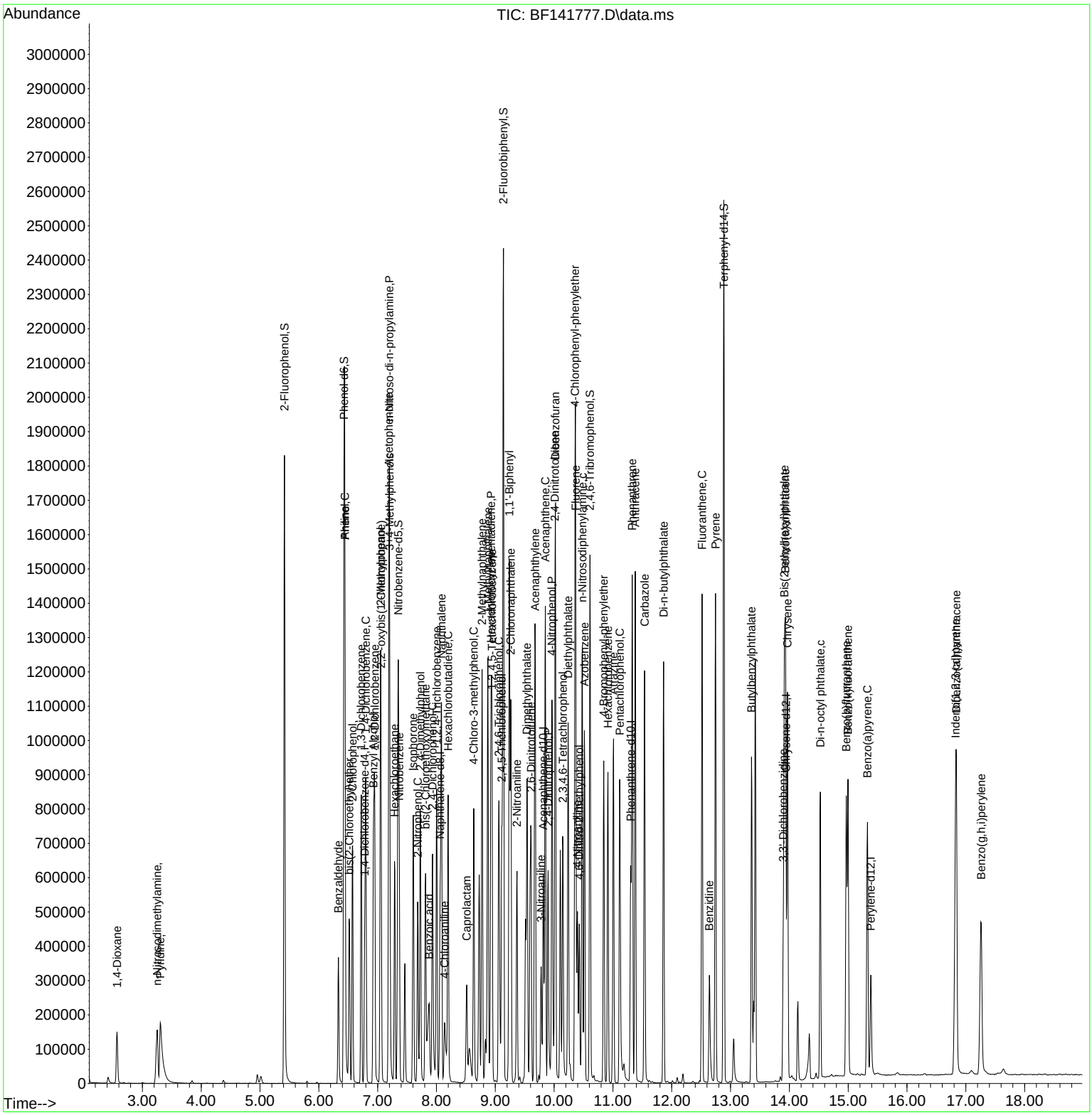
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141781.D
Acq On : 26 Feb 2025 14:24
Operator : RC/JU
Sample : PB166875BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 26 14:49:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	82911	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	323947	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	182265	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	312748	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	195301	20.000	ng		-0.02
86) Perylene-d12	15.386	264	182516	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	673219	127.297	ng		0.00
7) Phenol-d6	6.428	99	807007	120.732	ng		-0.01
23) Nitrobenzene-d5	7.345	82	524750	84.489	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	237563	129.750	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1043412	88.197	ng		-0.01
79) Terphenyl-d14	12.886	244	1182445	102.210	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.569	88	85137	39.998	ng		94
3) Pyridine	3.304	79	192879	38.080	ng		91
4) n-Nitrosodimethylamine	3.252	42	112190	33.451	ng		82
6) Aniline	6.445	93	200731	32.014	ng	#	74
8) 2-Chlorophenol	6.575	128	239459	41.904	ng		97
9) Benzaldehyde	6.334	77	92138	25.939	ng		95
10) Phenol	6.445	94	279580	40.186	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	217324	41.589	ng		98
12) 1,3-Dichlorobenzene	6.722	146	251217	41.641	ng		96
13) 1,4-Dichlorobenzene	6.798	146	258861	41.996	ng		98
14) 1,2-Dichlorobenzene	6.951	146	243027	42.481	ng		99
15) Benzyl Alcohol	6.934	79	201589	39.328	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.057	45	326181	36.465	ng		61
17) 2-Methylphenol	7.051	107	181224	40.525	ng		94
18) Hexachloroethane	7.287	117	93620	41.040	ng		98
19) n-Nitroso-di-n-propyla...	7.198	70	162962	40.758	ng		93
20) 3+4-Methylphenols	7.204	107	242346	42.643	ng	#	76
22) Acetophenone	7.192	105	367081	45.553	ng	#	90
24) Nitrobenzene	7.369	77	241755	39.918	ng		97
25) Isophorone	7.604	82	434291	43.854	ng		98
26) 2-Nitrophenol	7.681	139	131467	43.631	ng		92
27) 2,4-Dimethylphenol	7.728	122	192467	54.678	ng		97
28) bis(2-Chloroethoxy)met...	7.816	93	269950	42.541	ng		100
29) 2,4-Dichlorophenol	7.934	162	202781	42.637	ng		99
30) 1,2,4-Trichlorobenzene	8.004	180	217604	42.015	ng		99
31) Naphthalene	8.087	128	684325	40.582	ng		100
32) Benzoic acid	7.869	122	129768	35.492	ng		97
33) 4-Chloroaniline	8.139	127	104944	17.825	ng		96
34) Hexachlorobutadiene	8.198	225	132425	42.591	ng		99
35) Caprolactam	8.510	113	68121m	47.043	ng		
36) 4-Chloro-3-methylphenol	8.634	107	215925	40.986	ng		98
37) 2-Methylnaphthalene	8.775	142	444714	40.528	ng		100
38) 1-Methylnaphthalene	8.875	142	432503	40.696	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	244851	46.434	ng		99
41) Hexachlorocyclopentadiene	8.928	237	203682	116.131	ng		97
43) 2,4,6-Trichlorophenol	9.063	196	138890	40.753	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141781.D
Acq On : 26 Feb 2025 14:24
Operator : RC/JU
Sample : PB166875BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 26 14:49:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	151169	40.927	ng	98
46) 1,1'-Biphenyl	9.239	154	645996	45.716	ng	99
47) 2-Chloronaphthalene	9.263	162	439898	42.099	ng	99
48) 2-Nitroaniline	9.369	65	137317	39.158	ng	92
49) Acenaphthylene	9.681	152	672129	43.246	ng	99
50) Dimethylphthalate	9.539	163	525415	42.463	ng	100
51) 2,6-Dinitrotoluene	9.610	165	116118	42.928	ng	92
52) Acenaphthene	9.851	154	418861	40.087	ng	99
53) 3-Nitroaniline	9.781	138	69124	23.743	ng	96
54) 2,4-Dinitrophenol	9.898	184	125363	77.981	ng	88
55) Dibenzofuran	10.022	168	607142	39.587	ng	98
56) 4-Nitrophenol	9.963	139	146206	67.651	ng	91
57) 2,4-Dinitrotoluene	10.016	165	154036	42.777	ng	98
58) Fluorene	10.363	166	494621	41.710	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.145	232	127291	40.029	ng	94
60) Diethylphthalate	10.239	149	506014	41.565	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	242441	42.497	ng	97
62) 4-Nitroaniline	10.398	138	114185	38.626	ng	93
63) Azobenzene	10.516	77	468726	38.729	ng	94
65) 4,6-Dinitro-2-methylph...	10.428	198	83764	38.556	ng	92
66) n-Nitrosodiphenylamine	10.475	169	433486	43.299	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	151048	43.214	ng	100
68) Hexachlorobenzene	10.916	284	159239	44.242	ng	96
69) Atrazine	11.010	200	166968	55.593	ng	98
70) Pentachlorophenol	11.116	266	154762	67.245	ng	99
71) Phenanthrene	11.327	178	730566	42.437	ng	100
72) Anthracene	11.380	178	759498	43.887	ng	100
73) Carbazole	11.539	167	646297	41.505	ng	100
74) Di-n-butylphthalate	11.863	149	793310	44.122	ng	99
75) Fluoranthene	12.516	202	752428	41.225	ng	100
77) Benzidine	12.639	184	208167	48.330	ng	100
78) Pyrene	12.745	202	749905	45.106	ng	100
80) Butylbenzylphthalate	13.357	149	285374	49.557	ng	99
81) Benzo(a)anthracene	13.933	228	573656	44.187	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	116620	31.359	ng	99
83) Chrysene	13.968	228	514777	42.944	ng	99
84) Bis(2-ethylhexyl)phtha...	13.916	149	367049	56.515	ng	99
85) Di-n-octyl phthalate	14.527	149	533634	57.595	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	526450	46.682	ng	99
88) Benzo(b)fluoranthene	14.968	252	460075	37.542	ng	99
89) Benzo(k)fluoranthene	14.998	252	458283	43.793	ng	99
90) Benzo(a)pyrene	15.327	252	439422	44.313	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	426778	46.704	ng	99
92) Benzo(g,h,i)perylene	17.256	276	404443	42.294	ng	99

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

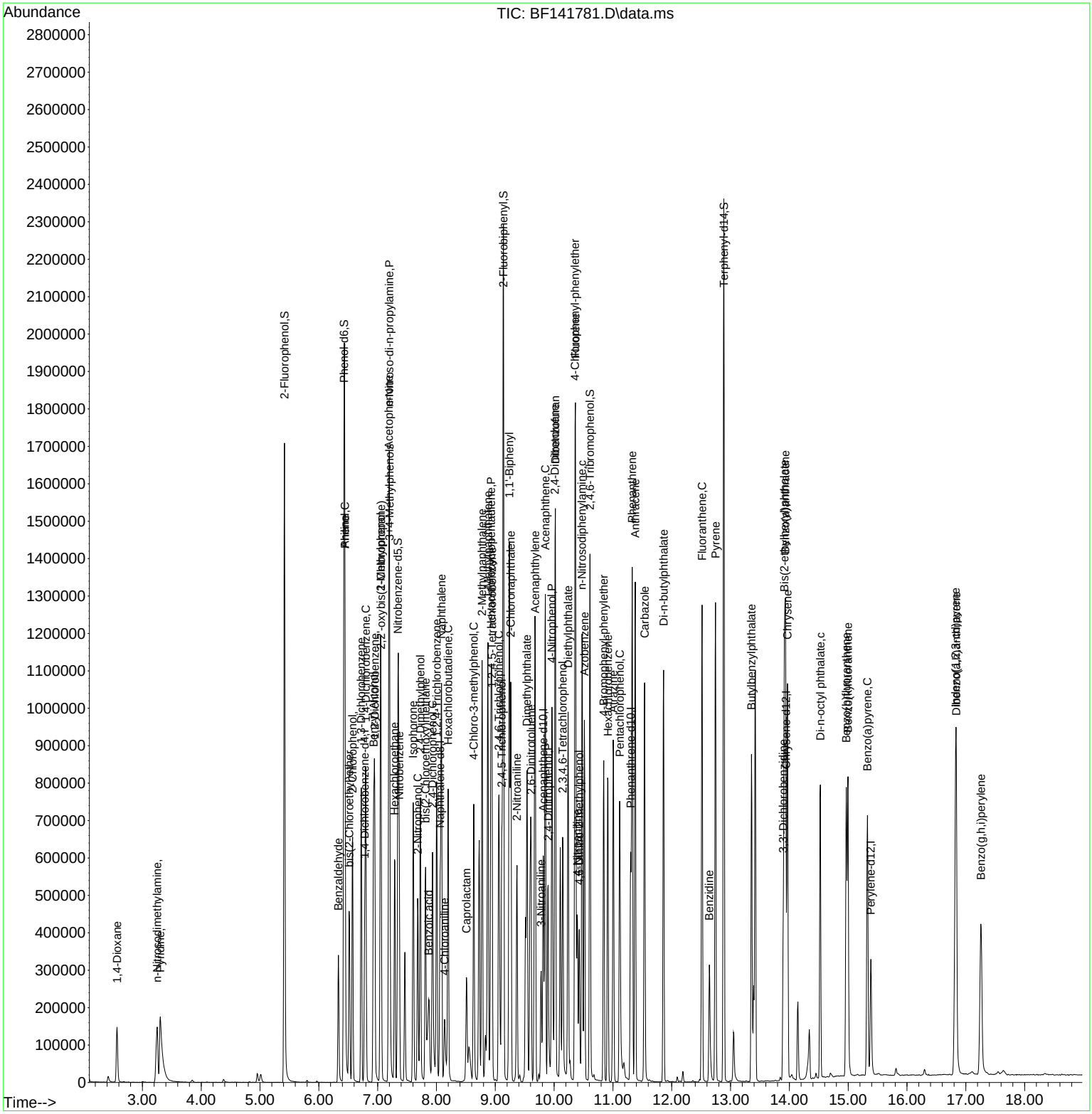
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141781.D
Acq On : 26 Feb 2025 14:24
Operator : RC/JU
Sample : PB166875BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 26 14:49:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141782.D
Acq On : 26 Feb 2025 14:54
Operator : RC/JU
Sample : PB166875BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 15:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	81030	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	321539	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	179613	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	311091	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	197944	20.000	ng		-0.02
86) Perylene-d12	15.386	264	175575	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	681239	131.804	ng		0.00
7) Phenol-d6	6.428	99	828000	126.748	ng		-0.01
23) Nitrobenzene-d5	7.345	82	538517	87.355	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	249647	138.363	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1069121	91.705	ng		-0.01
79) Terphenyl-d14	12.886	244	1238225	105.602	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.569	88	87106	41.873	ng		94
3) Pyridine	3.304	79	203502	41.110	ng		91
4) n-Nitrosodimethylamine	3.251	42	116448	35.527	ng		87
6) Aniline	6.445	93	205168	33.481	ng	#	73
8) 2-Chlorophenol	6.575	128	245340	43.930	ng		97
9) Benzaldehyde	6.334	77	94366	27.183	ng		96
10) Phenol	6.445	94	286272	42.104	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	223389	43.742	ng		97
12) 1,3-Dichlorobenzene	6.722	146	256355	43.479	ng		97
13) 1,4-Dichlorobenzene	6.798	146	260485	43.241	ng		98
14) 1,2-Dichlorobenzene	6.951	146	250486	44.801	ng		98
15) Benzyl Alcohol	6.934	79	207695	41.460	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.057	45	329491	37.690	ng		59
17) 2-Methylphenol	7.051	107	187380	42.874	ng		94
18) Hexachloroethane	7.286	117	96870	43.451	ng		99
19) n-Nitroso-di-n-propyla...	7.198	70	163097	41.739	ng		93
20) 3+4-Methylphenols	7.204	107	250904	45.173	ng	#	75
22) Acetophenone	7.192	105	373423	46.687	ng	#	90
24) Nitrobenzene	7.369	77	245989	40.921	ng		96
25) Isophorone	7.604	82	442707	45.039	ng		97
26) 2-Nitrophenol	7.681	139	132377	44.262	ng		93
27) 2,4-Dimethylphenol	7.728	122	194997	55.812	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	279563	44.386	ng		100
29) 2,4-Dichlorophenol	7.933	162	208275	44.120	ng		99
30) 1,2,4-Trichlorobenzene	8.004	180	221560	43.099	ng		99
31) Naphthalene	8.086	128	710062	42.424	ng		99
32) Benzoic acid	7.875	122	135530	37.346	ng		96
33) 4-Chloroaniline	8.139	127	107042	18.318	ng		97
34) Hexachlorobutadiene	8.198	225	135525	43.914	ng		99
35) Caprolactam	8.516	113	71401m	49.677	ng		
36) 4-Chloro-3-methylphenol	8.633	107	220323	42.134	ng		97
37) 2-Methylnaphthalene	8.775	142	449799	41.298	ng		100
38) 1-Methylnaphthalene	8.875	142	442108	41.911	ng		99
40) 1,2,4,5-Tetrachloroben...	8.945	216	245522	47.248	ng		98
41) Hexachlorocyclopentadiene	8.928	237	212260	122.809	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	142519	42.435	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141782.D
Acq On : 26 Feb 2025 14:54
Operator : RC/JU
Sample : PB166875BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 15:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	153378	42.139	ng	97
46) 1,1'-Biphenyl	9.239	154	666430	47.858	ng	99
47) 2-Chloronaphthalene	9.263	162	448737	43.579	ng	99
48) 2-Nitroaniline	9.369	65	140021	40.518	ng	91
49) Acenaphthylene	9.680	152	691055	45.120	ng	100
50) Dimethylphthalate	9.539	163	543747	44.593	ng	100
51) 2,6-Dinitrotoluene	9.610	165	117944	44.247	ng	94
52) Acenaphthene	9.851	154	431112	41.869	ng	100
53) 3-Nitroaniline	9.780	138	72808	25.378	ng	96
54) 2,4-Dinitrophenol	9.898	184	125185	79.020	ng	87
55) Dibenzofuran	10.022	168	626147	41.429	ng	99
56) 4-Nitrophenol	9.963	139	150379	70.610	ng	92
57) 2,4-Dinitrotoluene	10.016	165	159077	44.829	ng	98
58) Fluorene	10.369	166	506938	43.380	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	129421	41.300	ng	96
60) Diethylphthalate	10.239	149	525621	43.813	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	249862	44.444	ng	96
62) 4-Nitroaniline	10.398	138	118787	40.776	ng	95
63) Azobenzene	10.516	77	491005	41.169	ng	95
65) 4,6-Dinitro-2-methylph...	10.427	198	89627	41.475	ng	91
66) n-Nitrosodiphenylamine	10.480	169	448690	45.057	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	157706	45.359	ng	99
68) Hexachlorobenzene	10.916	284	167133	46.682	ng	96
69) Atrazine	11.010	200	175426	58.720	ng	98
70) Pentachlorophenol	11.116	266	160978	70.319	ng	99
71) Phenanthrene	11.327	178	764907	44.668	ng	100
72) Anthracene	11.380	178	780326	45.331	ng	100
73) Carbazole	11.539	167	670650	43.299	ng	99
74) Di-n-butylphthalate	11.863	149	840484	46.995	ng	99
75) Fluoranthene	12.516	202	776404	42.765	ng	99
77) Benzidine	12.639	184	223888	51.285	ng	99
78) Pyrene	12.745	202	776713	46.095	ng	100
80) Butylbenzylphthalate	13.357	149	300758	51.531	ng	99
81) Benzo(a)anthracene	13.933	228	593077	45.073	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	123538	32.776	ng	98
83) Chrysene	13.968	228	539566	44.411	ng	99
84) Bis(2-ethylhexyl)phtha...	13.915	149	386733	58.750	ng	99
85) Di-n-octyl phthalate	14.527	149	559396	59.569	ng	96
87) Indeno(1,2,3-cd)pyrene	16.833	276	532126	49.050	ng	99
88) Benzo(b)fluoranthene	14.968	252	529780	44.938	ng	99
89) Benzo(k)fluoranthene	14.998	252	410854	40.813	ng	98
90) Benzo(a)pyrene	15.327	252	451285	47.308	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	433447	49.309	ng	99
92) Benzo(g,h,i)perylene	17.262	276	406962	44.240	ng	99

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

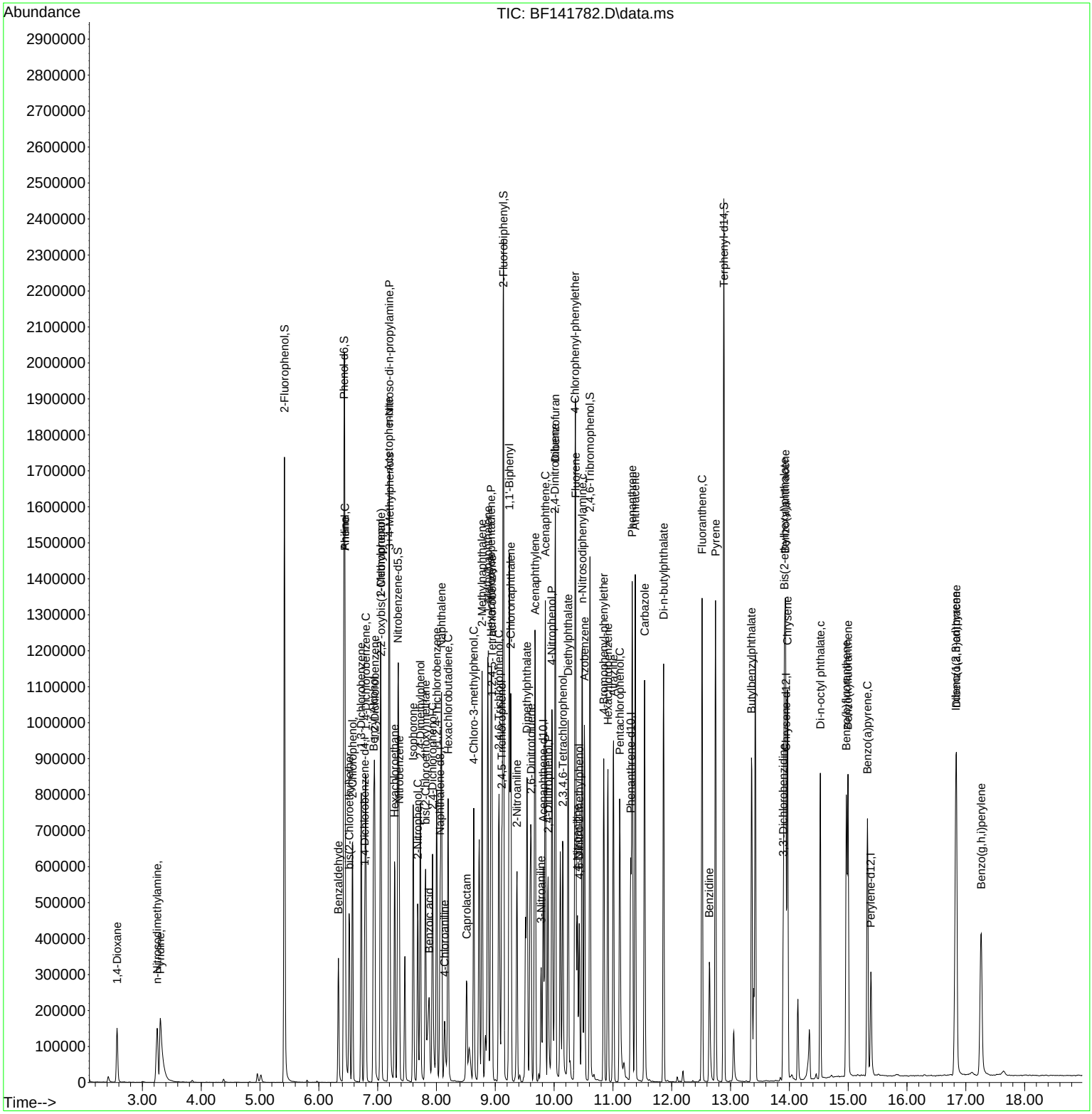
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Data File : BF141782.D
Acq On : 26 Feb 2025 14:54
Operator : RC/JU
Sample : PB166875BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 15:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	88792	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	356048	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	194554	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	323859	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	195463	20.000	ng		-0.02
86) Perylene-d12	15.386	264	188853	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	566792	100.075	ng		0.00
7) Phenol-d6	6.428	99	707518	98.837	ng		-0.01
23) Nitrobenzene-d5	7.345	82	445670	65.287	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	184005	94.150	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	873991	69.210	ng		-0.01
79) Terphenyl-d14	12.886	244	866854	74.868	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.575	88	99078	43.465	ng		98
3) Pyridine	3.304	79	229851	42.374	ng		93
4) n-Nitrosodimethylamine	3.257	42	138682	38.611	ng		90
6) Aniline	6.445	93	226829	33.780	ng	#	75
8) 2-Chlorophenol	6.575	128	276685	45.211	ng		97
9) Benzaldehyde	6.334	77	106505	27.998	ng		97
10) Phenol	6.439	94	335449	45.023	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	248270	44.364	ng		99
12) 1,3-Dichlorobenzene	6.722	146	289182	44.759	ng		96
13) 1,4-Dichlorobenzene	6.798	146	293245	44.424	ng		98
14) 1,2-Dichlorobenzene	6.951	146	277220	45.248	ng		99
15) Benzyl Alcohol	6.928	79	236006	42.993	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.057	45	383534	40.037	ng		64
17) 2-Methylphenol	7.051	107	214180	44.722	ng		93
18) Hexachloroethane	7.286	117	109393	44.778	ng		99
19) n-Nitroso-di-n-propyla...	7.198	70	184853	43.171	ng		94
20) 3+4-Methylphenols	7.204	107	282352	46.391	ng	#	75
22) Acetophenone	7.192	105	417099	47.093	ng		92
24) Nitrobenzene	7.369	77	282638	42.461	ng		96
25) Isophorone	7.604	82	501969	46.118	ng		99
26) 2-Nitrophenol	7.681	139	151422	45.723	ng		94
27) 2,4-Dimethylphenol	7.728	122	219153	56.646	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	306733	43.979	ng		100
29) 2,4-Dichlorophenol	7.934	162	227778	43.575	ng		100
30) 1,2,4-Trichlorobenzene	8.004	180	245784	43.178	ng		99
31) Naphthalene	8.086	128	789682	42.608	ng		100
32) Benzoic acid	7.845	122	59439	14.791	ng		98
33) 4-Chloroaniline	8.139	127	116223	17.961	ng		98
34) Hexachlorobutadiene	8.198	225	151076	44.209	ng		99
35) Caprolactam	8.510	113	75484m	47.428	ng		
36) 4-Chloro-3-methylphenol	8.633	107	247497	42.743	ng		99
37) 2-Methylnaphthalene	8.775	142	501251	41.562	ng		100
38) 1-Methylnaphthalene	8.875	142	487134	41.703	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	275848	49.007	ng		99
41) Hexachlorocyclopentadiene	8.928	237	244112	130.391	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	157396	43.266	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	169521	42.997	ng	98
46) 1,1'-Biphenyl	9.239	154	725705	48.113	ng	99
47) 2-Chloronaphthalene	9.263	162	494895	44.370	ng	99
48) 2-Nitroaniline	9.369	65	160694	42.929	ng	94
49) Acenaphthylene	9.680	152	755865	45.562	ng	100
50) Dimethylphthalate	9.539	163	581376	44.018	ng	99
51) 2,6-Dinitrotoluene	9.610	165	128111	44.370	ng	94
52) Acenaphthene	9.851	154	469732	42.116	ng	99
53) 3-Nitroaniline	9.780	138	84069	27.053	ng	96
54) 2,4-Dinitrophenol	9.898	184	107902	62.880	ng	90
55) Dibenzofuran	10.022	168	679468	41.505	ng	100
56) 4-Nitrophenol	9.963	139	178963	77.578	ng	93
57) 2,4-Dinitrotoluene	10.016	165	168790	43.913	ng	98
58) Fluorene	10.369	166	556982	44.002	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	144069	42.444	ng	92
60) Diethylphthalate	10.239	149	552047	42.482	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	268025	44.014	ng	98
62) 4-Nitroaniline	10.398	138	133998	42.465	ng	95
63) Azobenzene	10.516	77	595687	46.111	ng	95
65) 4,6-Dinitro-2-methylph...	10.427	198	84606	37.608	ng	93
66) n-Nitrosodiphenylamine	10.475	169	472300	45.558	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	165760	45.796	ng	99
68) Hexachlorobenzene	10.916	284	174405	46.793	ng	98
69) Atrazine	11.010	200	178296	57.328	ng	99
70) Pentachlorophenol	11.116	266	160396	67.302	ng	99
71) Phenanthrene	11.327	178	797195	44.718	ng	100
72) Anthracene	11.380	178	828278	46.220	ng	100
73) Carbazole	11.539	167	710387	44.056	ng	99
74) Di-n-butylphthalate	11.863	149	830961	44.631	ng	100
75) Fluoranthene	12.516	202	785350	41.553	ng	100
77) Benzidine	12.639	184	280116	64.980	ng	99
78) Pyrene	12.745	202	778525	46.789	ng	99
80) Butylbenzylphthalate	13.357	149	285094	49.467	ng	98
81) Benzo(a)anthracene	13.933	228	595321	45.818	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	132055	35.480	ng	99
83) Chrysene	13.968	228	540286	45.035	ng	100
84) Bis(2-ethylhexyl)phtha...	13.915	149	354228	54.495	ng	99
85) Di-n-octyl phthalate	14.527	149	550072	59.320	ng	99
87) Indeno(1,2,3-cd)pyrene	16.827	276	592429	50.769	ng	99
88) Benzo(b)fluoranthene	14.968	252	564333	44.504	ng	99
89) Benzo(k)fluoranthene	14.998	252	445721	41.164	ng	99
90) Benzo(a)pyrene	15.327	252	482833	47.057	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	478481	50.605	ng	99
92) Benzo(g,h,i)perylene	17.256	276	462853	46.779	ng	100

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

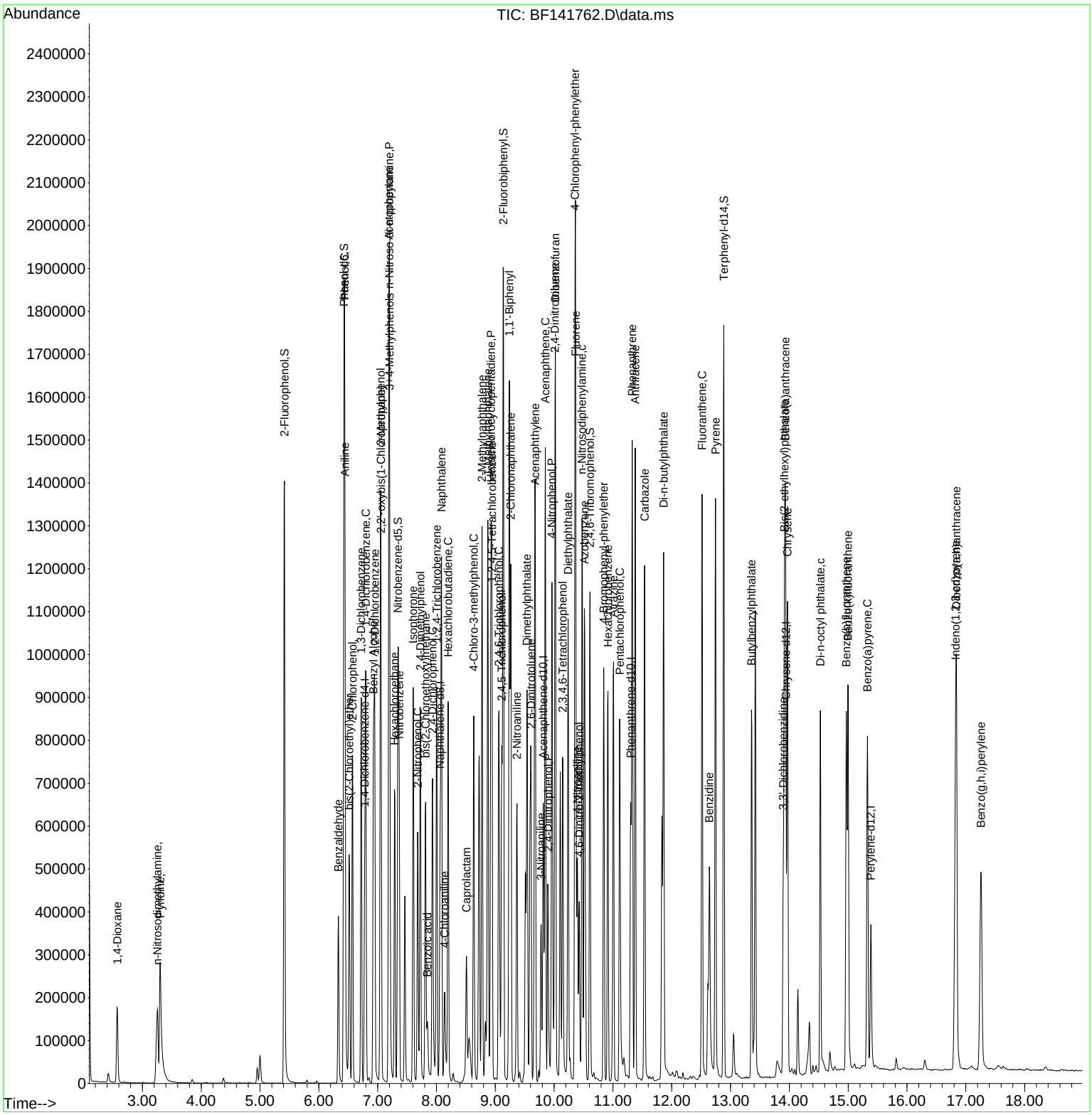
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Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	75675	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	299933	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	161806	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	253973	20.000	ng		-0.01
76) Chrysene-d12	13.939	240	171769	20.000	ng		-0.02
86) Perylene-d12	15.386	264	186973	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	503086	104.223	ng		0.00
7) Phenol-d6	6.428	99	618991	101.458	ng		-0.01
23) Nitrobenzene-d5	7.346	82	390477	67.904	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	152913	94.076	ng		-0.02
45) 2-Fluorobiphenyl	9.134	172	761811	72.536	ng		-0.02
79) Terphenyl-d14	12.886	244	725692	71.322	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.540	88	90202	46.430	ng		96
3) Pyridine	3.269	79	202708	43.847	ng		96
4) n-Nitrosodimethylamine	3.222	42	123575	40.369	ng		90
6) Aniline	6.446	93	205453	35.900	ng	#	82
8) 2-Chlorophenol	6.569	128	242733	46.538	ng		99
9) Benzaldehyde	6.334	77	93929	28.972	ng		97
10) Phenol	6.440	94	292013	45.987	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	219996	46.126	ng		99
12) 1,3-Dichlorobenzene	6.722	146	256275	46.541	ng		96
13) 1,4-Dichlorobenzene	6.798	146	261559	46.492	ng		98
14) 1,2-Dichlorobenzene	6.951	146	248986	47.684	ng		99
15) Benzyl Alcohol	6.928	79	201189	43.003	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	346162	42.399	ng		69
17) 2-Methylphenol	7.046	107	186708	45.743	ng		96
18) Hexachloroethane	7.287	117	96120	46.165	ng		99
19) n-Nitroso-di-n-propyla...	7.193	70	164417	45.054	ng		95
20) 3+4-Methylphenols	7.204	107	243568	46.956	ng	#	72
22) Acetophenone	7.193	105	370440	49.650	ng		92
24) Nitrobenzene	7.363	77	248969	44.400	ng		99
25) Isophorone	7.604	82	434574	47.396	ng		98
26) 2-Nitrophenol	7.681	139	131754	47.227	ng		94
27) 2,4-Dimethylphenol	7.722	122	189959	58.286	ng		99
28) bis(2-Chloroethoxy)met...	7.816	93	271858	46.272	ng		99
29) 2,4-Dichlorophenol	7.934	162	198750	45.135	ng		100
30) 1,2,4-Trichlorobenzene	8.004	180	218056	45.473	ng		100
31) Naphthalene	8.087	128	695392	44.540	ng		100
32) Benzoic acid	7.845	122	60430	17.851	ng		95
33) 4-Chloroaniline	8.140	127	107639	19.747	ng		97
34) Hexachlorobutadiene	8.198	225	132624	46.070	ng		100
35) Caprolactam	8.504	113	61932m	46.193	ng		
36) 4-Chloro-3-methylphenol	8.634	107	209473	42.944	ng		97
37) 2-Methylnaphthalene	8.775	142	437531	43.065	ng		100
38) 1-Methylnaphthalene	8.875	142	424417	43.132	ng		98
40) 1,2,4,5-Tetrachloroben...	8.940	216	239737	51.212	ng		99
41) Hexachlorocyclopentadiene	8.928	237	211325	135.724	ng		100
43) 2,4,6-Trichlorophenol	9.057	196	135676	44.843	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	141363	43.112	ng	97
46) 1,1'-Biphenyl	9.239	154	631200	50.317	ng	100
47) 2-Chloronaphthalene	9.263	162	429181	46.266	ng	99
48) 2-Nitroaniline	9.363	65	134953	43.349	ng	96
49) Acenaphthylene	9.675	152	653459	47.361	ng	99
50) Dimethylphthalate	9.539	163	484412	44.099	ng	99
51) 2,6-Dinitrotoluene	9.604	165	108763	45.293	ng	97
52) Acenaphthene	9.851	154	408252	44.012	ng	100
53) 3-Nitroaniline	9.775	138	67035	25.937	ng	97
54) 2,4-Dinitrophenol	9.892	184	87227	61.119	ng	93
55) Dibenzofuran	10.022	168	583197	42.834	ng	99
56) 4-Nitrophenol	9.957	139	140095	73.020	ng	95
57) 2,4-Dinitrotoluene	10.016	165	142466	44.566	ng	97
58) Fluorene	10.363	166	470483	44.692	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	116359	41.218	ng	96
60) Diethylphthalate	10.239	149	465458	43.068	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	227694	44.958	ng	97
62) 4-Nitroaniline	10.392	138	108386	41.300	ng	96
63) Azobenzene	10.516	77	502797	46.798	ng	94
65) 4,6-Dinitro-2-methylph...	10.422	198	67224	38.104	ng	97
66) n-Nitrosodiphenylamine	10.475	169	400020	49.203	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	139126	49.014	ng	99
68) Hexachlorobenzene	10.916	284	145837	49.895	ng	97
69) Atrazine	11.004	200	144195	59.121	ng	98
70) Pentachlorophenol	11.116	266	133292	71.320	ng	100
71) Phenanthrene	11.328	178	663667	47.472	ng	100
72) Anthracene	11.381	178	677206	48.188	ng	100
73) Carbazole	11.539	167	575834	45.538	ng	99
74) Di-n-butylphthalate	11.863	149	679207	46.518	ng	99
75) Fluoranthene	12.516	202	645460	43.549	ng	100
77) Benzidine	12.639	184	263831	69.645	ng	99
78) Pyrene	12.745	202	649308	44.406	ng	99
80) Butylbenzylphthalate	13.357	149	241762	47.735	ng	99
81) Benzo(a)anthracene	13.933	228	546463	47.859	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	128432	39.267	ng	97
83) Chrysene	13.969	228	478435	45.380	ng	100
84) Bis(2-ethylhexyl)phtha...	13.916	149	326027	57.076	ng	100
85) Di-n-octyl phthalate	14.527	149	549852	67.475	ng	97
87) Indeno(1,2,3-cd)pyrene	16.827	276	615192	53.250	ng	99
88) Benzo(b)fluoranthene	14.969	252	506088	40.312	ng	99
89) Benzo(k)fluoranthene	14.998	252	505399	47.144	ng	98
90) Benzo(a)pyrene	15.327	252	497890	49.012	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	496693	53.059	ng	98
92) Benzo(g,h,i)perylene	17.257	276	479696	48.968	ng	100

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

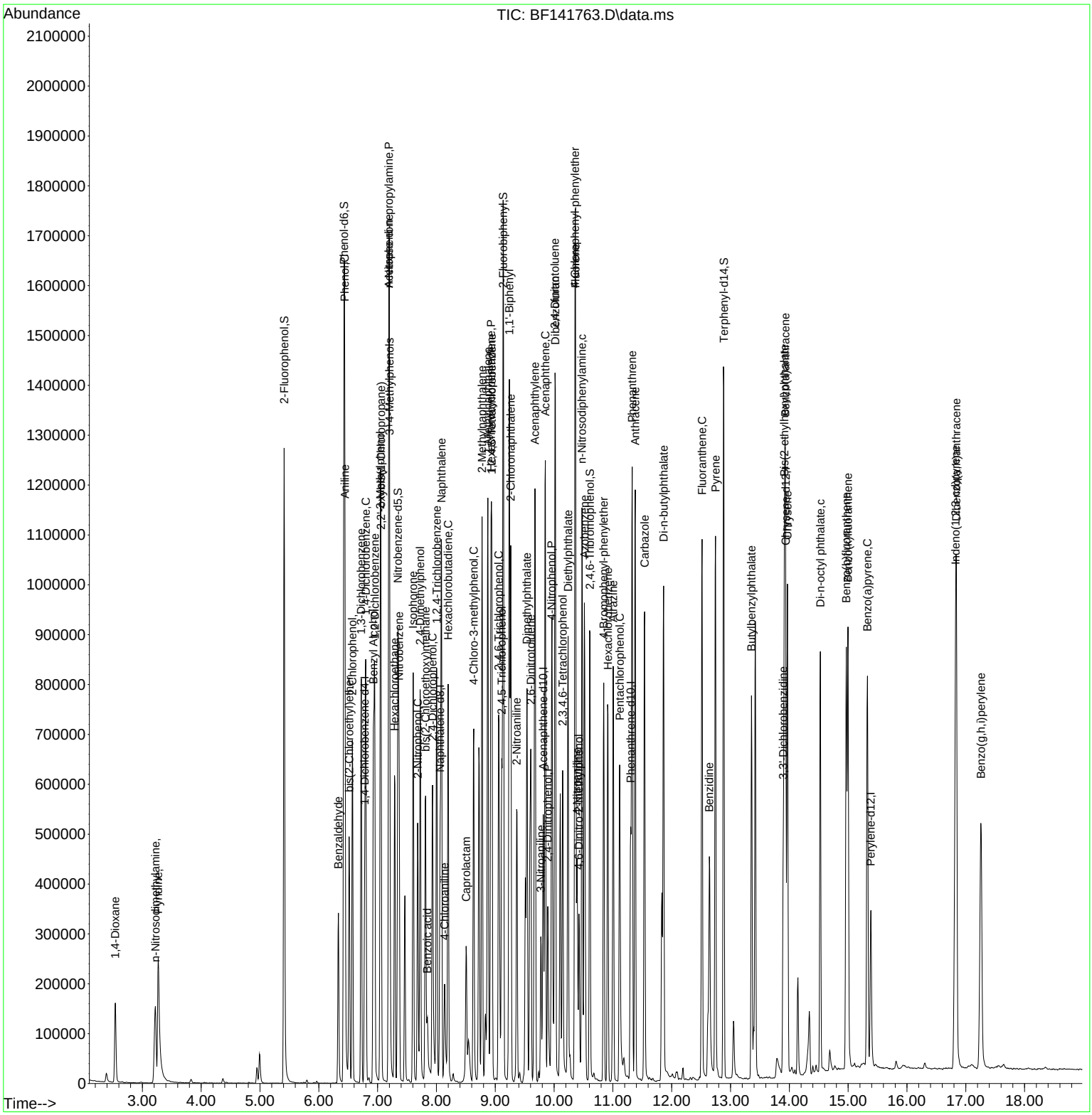
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



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Manual Integration Report

Sequence:	bf020625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141474.D	Acenaphthene	Jagrut	2/7/2025 3:49:22 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software
SSTDICC020	BF141475.D	Acenaphthene	Jagrut	2/7/2025 3:49:24 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF022525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1421-02MS	BF141762.D	Caprolactam	anahy	2/26/2025 11:12:43 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software
Q1421-03MSD	BF141763.D	Caprolactam	anahy	2/26/2025 11:13:27 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF022625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166853BS	BF141777.D	Caprolactam	anahy	2/27/2025 10:06:47 AM	Jagrut	2/27/2025 12:19:42 PM	Peak Integrated by Software
PB166875BS	BF141781.D	Caprolactam	anahy	2/27/2025 10:09:48 AM	Jagrut	2/27/2025 12:19:47 PM	Peak Integrated by Software
PB166875BSD	BF141782.D	Caprolactam	anahy	2/27/2025 10:10:58 AM	Jagrut	2/27/2025 12:19:49 PM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141471.D	06 Feb 2025 10:41	RC/JU	Ok
2	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07	RC/JU	Ok
3	SSTDICC005	BF141473.D	06 Feb 2025 11:34	RC/JU	Ok
4	SSTDICC010	BF141474.D	06 Feb 2025 12:00	RC/JU	Ok,M
5	SSTDICC020	BF141475.D	06 Feb 2025 12:26	RC/JU	Ok,M
6	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	RC/JU	Ok
7	SSTDICC050	BF141477.D	06 Feb 2025 13:21	RC/JU	Ok
8	SSTDICC060	BF141478.D	06 Feb 2025 13:47	RC/JU	Ok
9	SSTDICC080	BF141479.D	06 Feb 2025 14:14	RC/JU	Ok
10	SSTDICV040	BF141480.D	06 Feb 2025 15:03	RC/JU	Ok
11	PB166563BL	BF141481.D	06 Feb 2025 15:43	RC/JU	Ok
12	PB166468BS	BF141482.D	06 Feb 2025 16:09	RC/JU	Ok,M
13	PB166468BSD	BF141483.D	06 Feb 2025 16:36	RC/JU	Ok,M
14	PB166468BL	BF141484.D	06 Feb 2025 17:02	RC/JU	Ok
15	Q1214-01RE	BF141485.D	06 Feb 2025 17:34	RC/JU	Confirms
16	Q1309-01	BF141486.D	06 Feb 2025 18:00	RC/JU	Ok
17	Q1309-05	BF141487.D	06 Feb 2025 18:27	RC/JU	Ok
18	Q1309-09	BF141488.D	06 Feb 2025 18:53	RC/JU	Ok
19	Q1309-13	BF141489.D	06 Feb 2025 19:19	RC/JU	Ok
20	Q1309-13MS	BF141490.D	06 Feb 2025 19:45	RC/JU	Ok,M
21	Q1309-13MSD	BF141491.D	06 Feb 2025 20:11	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1309-17	BF141492.D	06 Feb 2025 20:37	RC/JU	Ok
23	Q1309-21	BF141493.D	06 Feb 2025 21:03	RC/JU	Ok
24	Q1216-04	BF141494.D	06 Feb 2025 21:30	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM				
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM				
SubDirectory	BF022525	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141754.D	25 Feb 2025 09:06	RC/JU	Ok
2	SSTDCCC040	BF141755.D	25 Feb 2025 10:34	RC/JU	Ok
3	PB166840BL	BF141756.D	25 Feb 2025 11:04	RC/JU	Ok
4	PB166840BS	BF141757.D	25 Feb 2025 11:33	RC/JU	Ok,M
5	PB166843BL	BF141758.D	25 Feb 2025 12:03	RC/JU	Ok
6	PB166843BS	BF141759.D	25 Feb 2025 12:33	RC/JU	Ok,M
7	PB166824TB	BF141760.D	25 Feb 2025 13:02	RC/JU	Ok
8	Q1421-01	BF141761.D	25 Feb 2025 13:37	RC/JU	Ok
9	Q1421-02MS	BF141762.D	25 Feb 2025 14:07	RC/JU	Ok,M
10	Q1421-03MSD	BF141763.D	25 Feb 2025 14:36	RC/JU	Ok,M
11	Q1421-07	BF141764.D	25 Feb 2025 15:06	RC/JU	Ok
12	Q1421-09	BF141765.D	25 Feb 2025 15:35	RC/JU	Ok
13	Q1415-04	BF141766.D	25 Feb 2025 16:05	RC/JU	Ok
14	Q1415-03	BF141767.D	25 Feb 2025 16:35	RC/JU	Ok
15	Q1415-02	BF141768.D	25 Feb 2025 17:05	RC/JU	Ok
16	Q1415-01	BF141769.D	25 Feb 2025 17:34	RC/JU	Ok
17	Q1420-01	BF141770.D	25 Feb 2025 18:04	RC/JU	Ok
18	Q1420-05	BF141771.D	25 Feb 2025 18:34	RC/JU	ReRun
19	Q1416-01	BF141772.D	25 Feb 2025 19:03	RC/JU	Ok
20	Q1418-01	BF141773.D	25 Feb 2025 19:33	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141774.D	26 Feb 2025 10:16	RC/JU	Ok
2	SSTDCCC040	BF141775.D	26 Feb 2025 10:45	RC/JU	Ok
3	PB166853BL	BF141776.D	26 Feb 2025 11:49	RC/JU	Ok
4	PB166853BS	BF141777.D	26 Feb 2025 12:19	RC/JU	Ok,M
5	PB166870BL	BF141778.D	26 Feb 2025 12:56	RC/JU	Ok
6	PB166870BS	BF141779.D	26 Feb 2025 13:26	RC/JU	Ok,M
7	PB166875BL	BF141780.D	26 Feb 2025 13:55	RC/JU	Ok
8	PB166875BS	BF141781.D	26 Feb 2025 14:24	RC/JU	Ok,M
9	PB166875BSD	BF141782.D	26 Feb 2025 14:54	RC/JU	Ok,M
10	Q1422-01	BF141783.D	26 Feb 2025 15:29	RC/JU	Ok
11	Q1422-01MS	BF141784.D	26 Feb 2025 15:59	RC/JU	Ok,M
12	Q1422-01MSD	BF141785.D	26 Feb 2025 16:28	RC/JU	Ok,M
13	Q1422-02	BF141786.D	26 Feb 2025 16:57	RC/JU	Ok
14	Q1415-06	BF141787.D	26 Feb 2025 17:27	RC/JU	Ok
15	Q1415-05	BF141788.D	26 Feb 2025 17:56	RC/JU	Ok
16	Q1427-01	BF141789.D	26 Feb 2025 18:25	RC/JU	Ok,M
17	Q1420-05	BF141790.D	26 Feb 2025 18:55	RC/JU	Ok
18	Q1428-01	BF141791.D	26 Feb 2025 19:25	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141471.D	06 Feb 2025 10:41		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141473.D	06 Feb 2025 11:34	Compound #32,41,54 and #65 removed from 5PPM	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141474.D	06 Feb 2025 12:00		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141475.D	06 Feb 2025 12:26		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141477.D	06 Feb 2025 13:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141478.D	06 Feb 2025 13:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141479.D	06 Feb 2025 14:14	Compound #9 removed from 80ppm	RC/JU	Ok
10	SSTDICV040	ICVBF020625	BF141480.D	06 Feb 2025 15:03		RC/JU	Ok
11	PB166563BL	PB166563BL	BF141481.D	06 Feb 2025 15:43		RC/JU	Ok
12	PB166468BS	PB166468BS	BF141482.D	06 Feb 2025 16:09		RC/JU	Ok,M
13	PB166468BSD	PB166468BSD	BF141483.D	06 Feb 2025 16:36		RC/JU	Ok,M
14	PB166468BL	PB166468BL	BF141484.D	06 Feb 2025 17:02		RC/JU	Ok
15	Q1214-01RE	PARAMUS-CONDENS/	BF141485.D	06 Feb 2025 17:34	Surrogate Fail	RC/JU	Confirms
16	Q1309-01	WC-2	BF141486.D	06 Feb 2025 18:00		RC/JU	Ok
17	Q1309-05	WC-3	BF141487.D	06 Feb 2025 18:27		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1309-09	WC-4	BF141488.D	06 Feb 2025 18:53		RC/JU	Ok
19	Q1309-13	WC-5	BF141489.D	06 Feb 2025 19:19		RC/JU	Ok
20	Q1309-13MS	WC-5MS	BF141490.D	06 Feb 2025 19:45		RC/JU	Ok,M
21	Q1309-13MSD	WC-5MSD	BF141491.D	06 Feb 2025 20:11		RC/JU	Ok,M
22	Q1309-17	WC-6	BF141492.D	06 Feb 2025 20:37		RC/JU	Ok
23	Q1309-21	WC-8	BF141493.D	06 Feb 2025 21:03		RC/JU	Ok
24	Q1216-04	JPP-18.1-012825	BF141494.D	06 Feb 2025 21:30		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM		
SubDirectory	BF022525	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141754.D	25 Feb 2025 09:06		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141755.D	25 Feb 2025 10:34		RC/JU	Ok
3	PB166840BL	PB166840BL	BF141756.D	25 Feb 2025 11:04		RC/JU	Ok
4	PB166840BS	PB166840BS	BF141757.D	25 Feb 2025 11:33		RC/JU	Ok,M
5	PB166843BL	PB166843BL	BF141758.D	25 Feb 2025 12:03		RC/JU	Ok
6	PB166843BS	PB166843BS	BF141759.D	25 Feb 2025 12:33		RC/JU	Ok,M
7	PB166824TB	PB166824TB	BF141760.D	25 Feb 2025 13:02		RC/JU	Ok
8	Q1421-01	P001-CLAY-CF01-01	BF141761.D	25 Feb 2025 13:37		RC/JU	Ok
9	Q1421-02MS	P001-CLAY-CF01-01M	BF141762.D	25 Feb 2025 14:07		RC/JU	Ok,M
10	Q1421-03MSD	P001-CLAY-CF01-01M	BF141763.D	25 Feb 2025 14:36		RC/JU	Ok,M
11	Q1421-07	P001-CLAY-CF01-02	BF141764.D	25 Feb 2025 15:06		RC/JU	Ok
12	Q1421-09	P001-CLAY-CF02-01	BF141765.D	25 Feb 2025 15:35		RC/JU	Ok
13	Q1415-04	B-172-SB02	BF141766.D	25 Feb 2025 16:05		RC/JU	Ok
14	Q1415-03	B-163-SB02	BF141767.D	25 Feb 2025 16:35		RC/JU	Ok
15	Q1415-02	B-172-SB01	BF141768.D	25 Feb 2025 17:05		RC/JU	Ok
16	Q1415-01	B-163-SB01	BF141769.D	25 Feb 2025 17:34		RC/JU	Ok
17	Q1420-01	TP-1-WC	BF141770.D	25 Feb 2025 18:04		RC/JU	Ok
18	Q1420-05	TP-2-WC	BF141771.D	25 Feb 2025 18:34	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM		
SubDirectory	BF022525	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1416-01	OK-01-022425	BF141772.D	25 Feb 2025 19:03		RC/JU	Ok
20	Q1418-01	TR-06-02242025	BF141773.D	25 Feb 2025 19:33		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141774.D	26 Feb 2025 10:16		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141775.D	26 Feb 2025 10:45		RC/JU	Ok
3	PB166853BL	PB166853BL	BF141776.D	26 Feb 2025 11:49		RC/JU	Ok
4	PB166853BS	PB166853BS	BF141777.D	26 Feb 2025 12:19		RC/JU	Ok,M
5	PB166870BL	PB166870BL	BF141778.D	26 Feb 2025 12:56		RC/JU	Ok
6	PB166870BS	PB166870BS	BF141779.D	26 Feb 2025 13:26		RC/JU	Ok,M
7	PB166875BL	PB166875BL	BF141780.D	26 Feb 2025 13:55		RC/JU	Ok
8	PB166875BS	PB166875BS	BF141781.D	26 Feb 2025 14:24		RC/JU	Ok,M
9	PB166875BSD	PB166875BSD	BF141782.D	26 Feb 2025 14:54		RC/JU	Ok,M
10	Q1422-01	B-154-SB01	BF141783.D	26 Feb 2025 15:29		RC/JU	Ok
11	Q1422-01MS	B-154-SB01MS	BF141784.D	26 Feb 2025 15:59		RC/JU	Ok,M
12	Q1422-01MSD	B-154-SB01MSD	BF141785.D	26 Feb 2025 16:28		RC/JU	Ok,M
13	Q1422-02	B-154-SB02	BF141786.D	26 Feb 2025 16:57		RC/JU	Ok
14	Q1415-06	B-173-GW01	BF141787.D	26 Feb 2025 17:27		RC/JU	Ok
15	Q1415-05	FB02222025	BF141788.D	26 Feb 2025 17:56		RC/JU	Ok
16	Q1427-01	VNJ-227	BF141789.D	26 Feb 2025 18:25		RC/JU	Ok,M
17	Q1420-05	TP-2-WC	BF141790.D	26 Feb 2025 18:55		RC/JU	Ok
18	Q1428-01	NB-07-022525	BF141791.D	26 Feb 2025 19:25		RC/JU	Ok,M

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166853

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 02/25/2025

Extraction Start Time : 09:30

Extraction End Date : 02/25/2025

Extraction End Time : 12:30

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [_] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2582
Baked Na2SO4	N/A	EP2589
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (Ext lab)	AC/SVOC
12:35	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166853

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166853BL	SBLK853	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U2-1
PB166853BS	SLCS853	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q1415-01	B-163-SB01	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
Q1415-02	B-172-SB01	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
Q1415-03	B-163-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
Q1415-04	B-172-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		6
Q1416-01	OK-01-022425	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		U3-1
Q1418-01	TR-06-02242025	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		2
Q1420-01	TP-1-WC	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q1420-05	TP-2-WC	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		4
Q1421-01	P001-CLAY-CF01-01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		5
Q1421-02	Q1421-01MS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
Q1421-03	Q1421-01MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U4-1
Q1421-07	P001-CLAY-CF01-02	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	F		2
Q1421-09	P001-CLAY-CF02-01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3

RG 2/25

* **Extracts relinquished on the same date as received.**

Q1415 Q68853 9:20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1416BN **WorkList ID :** 187863 **Department :** Extraction **Date :** 02-25-2025 08:37:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-02	B-172-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-03	B-163-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-04	B-172-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1416-01	OK-01-022425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	N41	02/24/2025	8270E
Q1418-01	TR-06-02242025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H41	02/24/2025	8270E
Q1420-01	TP-1-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1420-05	TP-2-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1421-01	P001-CLAY-CF01-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-02	Q1421-01MS	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-03	Q1421-01MSD	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-07	P001-CLAY-CF01-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-09	P001-CLAY-CF02-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E

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Date/Time 2/25/25 9:25
Raw Sample Received by: RJ (EXA-lab)
Raw Sample Relinquished by: CP SM

Date/Time 2/25/25 9:55
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (EXA-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166875

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	02/26/2025
Matrix :	Water			**Extraction Start Time :**	08:45
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	02/26/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2589
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.Q1415-05 Limited volume received.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/26/25	RS (E54-lab)	AC/SVOC
13:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166875

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 02/26/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166875BL	SBLK875	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			SEP-1
PB166875BS	SLCS875	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			2
PB166875BSD	SLCSD875	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			3
Q1415-05	FB02222025	SVOC-TCL BNA -20	480	6	RUPESH	ritesh	0.5	G		4
Q1415-06	B-173-GW01	SVOC-TCL BNA -20	900	6	RUPESH	ritesh	1	F		5

RS 2/26

* **Extracts relinquished on the same date as received.**

Q1415 166875 8:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1415BN **WorkList ID :** 187892 **Department :** Extraction **Date :** 02-26-2025 08:40:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-05	FB02222025	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-06	B-173-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E

562 of 1193

Date/Time 2/26/25 8:45
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: [signature]

Date/Time 2/26/25 9:10
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RS (Ext Lab)

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LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-02	**B-172-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-03	**B-163-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-04	**B-172-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-05	**FB02222025**	**Water**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/26/25	02/26/25	
Q1415-06	**B-173-GW01**	**Water**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/26/25	02/26/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1415 **Order ID:** Q1415

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.5 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070037.D	1	02/25/25 09:02	02/25/25 12:55	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.80	U	3.80	19.2	ug/kg
11104-28-2	Aroclor-1221	7.20	U	7.20	19.2	ug/kg
11141-16-5	Aroclor-1232	3.80	U	3.80	19.2	ug/kg
53469-21-9	Aroclor-1242	3.80	U	3.80	19.2	ug/kg
12672-29-6	Aroclor-1248	8.90	U	8.90	19.2	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.2	ug/kg
37324-23-5	Aroclor-1262	5.20	U	5.20	19.2	ug/kg
11100-14-4	Aroclor-1268	3.90	U	3.90	19.2	ug/kg
11096-82-5	Aroclor-1260	3.30	U	3.30	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.9		30 (32) - 150 (144)	125%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.5		30 (32) - 150 (175)	112%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	86.6 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070038.D	1	02/25/25 09:02	02/25/25 13:11	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	19.6	ug/kg
11104-28-2	Aroclor-1221	7.40	U	7.40	19.6	ug/kg
11141-16-5	Aroclor-1232	3.90	U	3.90	19.6	ug/kg
53469-21-9	Aroclor-1242	3.90	U	3.90	19.6	ug/kg
12672-29-6	Aroclor-1248	9.10	U	9.10	19.6	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.6	ug/kg
37324-23-5	Aroclor-1262	5.30	U	5.30	19.6	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	19.6	ug/kg
11096-82-5	Aroclor-1260	3.40	U	3.40	19.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.7		30 (32) - 150 (144)	134%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.0		30 (32) - 150 (175)	120%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	72.4 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070039.D	1	02/25/25 09:02	02/25/25 13:28	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.70	U	4.70	23.4	ug/kg
11104-28-2	Aroclor-1221	8.80	U	8.80	23.4	ug/kg
11141-16-5	Aroclor-1232	4.70	U	4.70	23.4	ug/kg
53469-21-9	Aroclor-1242	4.70	U	4.70	23.4	ug/kg
12672-29-6	Aroclor-1248	10.9	U	10.9	23.4	ug/kg
11097-69-1	Aroclor-1254	3.80	U	3.80	23.4	ug/kg
37324-23-5	Aroclor-1262	6.30	U	6.30	23.4	ug/kg
11100-14-4	Aroclor-1268	4.70	U	4.70	23.4	ug/kg
11096-82-5	Aroclor-1260	4.00	U	4.00	23.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.6		30 (32) - 150 (144)	123%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.0		30 (32) - 150 (175)	90%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	89.7 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070040.D	1	02/25/25 09:02	02/25/25 13:44	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.80	U	3.80	18.9	ug/kg
11104-28-2	Aroclor-1221	7.10	U	7.10	18.9	ug/kg
11141-16-5	Aroclor-1232	3.80	U	3.80	18.9	ug/kg
53469-21-9	Aroclor-1242	3.80	U	3.80	18.9	ug/kg
12672-29-6	Aroclor-1248	8.80	U	8.80	18.9	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.9	ug/kg
37324-23-5	Aroclor-1262	5.10	U	5.10	18.9	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.9	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	18.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.9		30 (32) - 150 (144)	130%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.8		30 (32) - 150 (175)	119%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	480 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070055.D	1	02/25/25 08:49	02/25/25 18:10	PB166856

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.16	U	0.16	0.52	ug/L
11104-28-2	Aroclor-1221	0.24	U	0.24	0.52	ug/L
11141-16-5	Aroclor-1232	0.39	U	0.39	0.52	ug/L
53469-21-9	Aroclor-1242	0.17	U	0.17	0.52	ug/L
12672-29-6	Aroclor-1248	0.13	U	0.13	0.52	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.52	ug/L
37324-23-5	Aroclor-1262	0.15	U	0.15	0.52	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.52	ug/L
11096-82-5	Aroclor-1260	0.16	U	0.16	0.52	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		30 (10) - 150 (157)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.2		30 (10) - 150 (173)	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	900 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070056.D	1	02/25/25 08:49	02/25/25 18:26	PB166856

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.17	U	0.17	0.56	ug/L
11104-28-2	Aroclor-1221	0.26	U	0.26	0.56	ug/L
11141-16-5	Aroclor-1232	0.41	U	0.41	0.56	ug/L
53469-21-9	Aroclor-1242	0.18	U	0.18	0.56	ug/L
12672-29-6	Aroclor-1248	0.13	U	0.13	0.56	ug/L
11097-69-1	Aroclor-1254	0.12	U	0.12	0.56	ug/L
37324-23-5	Aroclor-1262	0.16	U	0.16	0.56	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.56	ug/L
11096-82-5	Aroclor-1260	0.17	U	0.17	0.56	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.9		30 (10) - 150 (157)	119%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.5		30 (10) - 150 (173)	88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PP069995.D	PIBLK-PP069995.D	Tetrachloro-m-xylene	1	20	21.9	109		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.8	109		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.6	108		70 (60)	130 (140)
I.BLK-PP070034.D	PIBLK-PP070034.D	Tetrachloro-m-xylene	1	20	16.9	85		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.4	87		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	16.8	84		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.0	90		70 (60)	130 (140)
PB166854BL	PB166854BL	Tetrachloro-m-xylene	1	20	23.9	119		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	24.3	122		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.1	120		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.1	116		30 (32)	150 (175)
PB166854BS	PB166854BS	Tetrachloro-m-xylene	1	20	26.0	130		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.4	127		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.9	125		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	24.7	123		30 (32)	150 (175)
Q1415-01	B-163-SB01	Tetrachloro-m-xylene	1	20	24.4	122		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	21.2	106		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.9	125		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.5	112		30 (32)	150 (175)
Q1415-02	B-172-SB01	Tetrachloro-m-xylene	1	20	26.6	133		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.0	115		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	26.7	134		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	24.0	120		30 (32)	150 (175)
Q1415-03	B-163-SB02	Tetrachloro-m-xylene	1	20	23.9	119		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	18.0	90		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.6	123		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	17.5	88		30 (32)	150 (175)
Q1415-04	B-172-SB02	Tetrachloro-m-xylene	1	20	25.7	128		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.8	119		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	25.9	130		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.3	106		30 (32)	150 (175)
I.BLK-PP070046.D	PIBLK-PP070046.D	Tetrachloro-m-xylene	1	20	17.7	89		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.4	87		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.0	90		70 (60)	130 (140)
Q1421-02MS	P001-CLAY-CF01-01MS	Tetrachloro-m-xylene	1	20	28.0	140		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.6	128		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	27.5	137		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	25.2	126		30 (32)	150 (175)
Q1421-03MSD	P001-CLAY-CF01-01MSD	Tetrachloro-m-xylene	1	20	28.0	140		30 (32)	150 (144)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
Q1421-03MSD	P001-CLAY-CF01-01MSD	Decachlorobiphenyl	1	20	26.0	130		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	25.9	130		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	25.2	126		30 (32)	150 (175)
PB166856BL	PB166856BL	Tetrachloro-m-xylene	1	20	24.8	124		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	24.2	121		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	24.2	121		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	25.5	128		30 (10)	150 (173)
PB166856BS	PB166856BS	Tetrachloro-m-xylene	1	20	24.9	124		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	23.8	119		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	23.5	117		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	23.7	118		30 (10)	150 (173)
PB166856BSD	PB166856BSD	Tetrachloro-m-xylene	1	20	25.2	126		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	24.0	120		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	24.5	123		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	24.9	125		30 (10)	150 (173)
Q1415-05	FB02222025	Tetrachloro-m-xylene	1	20	20.6	103		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	16.2	81		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	19.6	98		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	15.6	78		30 (10)	150 (173)
Q1415-06	B-173-GW01	Tetrachloro-m-xylene	1	20	23.9	119		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	15.8	79		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	23.5	117		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	17.5	88		30 (10)	150 (173)
I.BLK-PP070058.D	PIBLK-PP070058.D	Tetrachloro-m-xylene	1	20	17.8	89		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	17.8	89		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.6	93		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	19.8	99		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP070048.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**P001-CLAY-CF01-01MS**											
Q1421-02MS	AR1016	237	0	246	ug/kg	104				40 (55)	140 (146)	
	AR1260	237	0	224	ug/kg	95				40 (45)	140 (144)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP070049.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**P001-CLAY-CF01-01MSD**											
Q1421-03MSD	AR1016	236.8	0	249	ug/kg	105		1		40 (55)	140 (146)	30 (20)
	AR1260	236.8	0	226	ug/kg	95		0		40 (45)	140 (144)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP070036.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166854BS	AR1016	166.6	166	ug/kg	100				40 (71)	140 (120)	
	AR1260	166.6	158	ug/kg	95				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP070053.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166856BS	AR1016	5	4.90	ug/L	98				40 (61)	140 (112)	
	AR1260	5	4.60	ug/L	92				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP070054.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166856BSD	AR1016	5	5.00	ug/L	100	2			40 (61)	140 (112)	20 (20)
	AR1260	5	4.70	ug/L	94	2			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166854BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab Sample ID: PB166854BL Lab File ID: PP070035.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 02/25/2025

Date Analyzed (1): 02/25/2025 Date Analyzed (2): 02/25/2025

Time Analyzed (1): 12:23 Time Analyzed (2): 12:23

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166854BS	PB166854BS	PP070036.D	02/25/2025	02/25/2025
B-163-SB01	Q1415-01	PP070037.D	02/25/2025	02/25/2025
B-172-SB01	Q1415-02	PP070038.D	02/25/2025	02/25/2025
B-163-SB02	Q1415-03	PP070039.D	02/25/2025	02/25/2025
B-172-SB02	Q1415-04	PP070040.D	02/25/2025	02/25/2025
P001-CLAY-CF01-01MS	Q1421-02MS	PP070048.D	02/25/2025	02/25/2025
P001-CLAY-CF01-01MSD	Q1421-03MSD	PP070049.D	02/25/2025	02/25/2025

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166856BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab Sample ID: PB166856BL Lab File ID: PP070052.D

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 02/25/2025

Date Analyzed (1): 02/25/2025 Date Analyzed (2): 02/25/2025

Time Analyzed (1): 17:21 Time Analyzed (2): 17:21

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166856BS	PB166856BS	PP070053.D	02/25/2025	02/25/2025
PB166856BSD	PB166856BSD	PP070054.D	02/25/2025	02/25/2025
FB02222025	Q1415-05	PP070055.D	02/25/2025	02/25/2025
B-173-GW01	Q1415-06	PP070056.D	02/25/2025	02/25/2025

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166854BL	SDG No.:	Q1415
Lab Sample ID:	PB166854BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070035.D	1	02/25/25 09:02	02/25/25 12:23	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	2.90	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.1		30 (32) - 150 (144)	120%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.3		30 (32) - 150 (175)	122%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166856BL	SDG No.:	Q1415
Lab Sample ID:	PB166856BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070052.D	1	02/25/25 08:49	02/25/25 17:21	PB166856

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.8		30 (10) - 150 (157)	124%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.5		30 (10) - 150 (173)	128%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	PIBLK-PP069995.D	SDG No.:	Q1415
Lab Sample ID:	I.BLK-PP069995.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP069995.D	1		02/24/25	PP022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.9		70 (60) - 130 (140)	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		70 (60) - 130 (140)	108%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	PIBLK-PP070034.D	SDG No.:	Q1415
Lab Sample ID:	I.BLK-PP070034.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070034.D	1		02/25/25	PP022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.8		70 (60) - 130 (140)	84%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.4		70 (60) - 130 (140)	87%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	PIBLK-PP070046.D	SDG No.:	Q1415
Lab Sample ID:	I.BLK-PP070046.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070046.D	1		02/25/25	PP022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.7		70 (60) - 130 (140)	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.4		70 (60) - 130 (140)	87%	SPK: 20

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	PIBLK-PP070058.D	SDG No.:	Q1415
Lab Sample ID:	I.BLK-PP070058.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070058.D	1		02/25/25	PP022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.8		70 (60) - 130 (140)	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.8		70 (60) - 130 (140)	89%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166854BS	SDG No.:	Q1415
Lab Sample ID:	PB166854BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070036.D	1	02/25/25 09:02	02/25/25 12:39	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	166		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	6.40	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	3.40	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	3.40	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	7.90	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	4.60	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	3.40	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	158		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.0		30 (32) - 150 (144)	130%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.4		30 (32) - 150 (175)	127%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166856BS	SDG No.:	Q1415
Lab Sample ID:	PB166856BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070053.D	1	02/25/25 08:49	02/25/25 17:37	PB166856

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.90		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.60		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.9		30 (10) - 150 (157)	124%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.8		30 (10) - 150 (173)	119%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166856BSD	SDG No.:	Q1415
Lab Sample ID:	PB166856BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070054.D	1	02/25/25 08:49	02/25/25 17:53	PB166856

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	5.00		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.70		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.2		30 (10) - 150 (157)	126%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.9		30 (10) - 150 (173)	125%	SPK: 20

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	70.3 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070048.D	1	02/25/25 09:02	02/25/25 16:16	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	246		4.80	24.2	ug/kg
11104-28-2	Aroclor-1221	9.10	U	9.10	24.2	ug/kg
11141-16-5	Aroclor-1232	4.80	U	4.80	24.2	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	24.2	ug/kg
12672-29-6	Aroclor-1248	11.2	U	11.2	24.2	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	24.2	ug/kg
37324-23-5	Aroclor-1262	6.50	U	6.50	24.2	ug/kg
11100-14-4	Aroclor-1268	4.90	U	4.90	24.2	ug/kg
11096-82-5	Aroclor-1260	224		4.10	24.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	28.0		30 (32) - 150 (144)	140%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.6		30 (32) - 150 (175)	128%	SPK: 20

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	70.3 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP070049.D	1	02/25/25 09:02	02/25/25 16:32	PB166854

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	249		4.80	24.2	ug/kg
11104-28-2	Aroclor-1221	9.10	U	9.10	24.2	ug/kg
11141-16-5	Aroclor-1232	4.80	U	4.80	24.2	ug/kg
53469-21-9	Aroclor-1242	4.80	U	4.80	24.2	ug/kg
12672-29-6	Aroclor-1248	11.2	U	11.2	24.2	ug/kg
11097-69-1	Aroclor-1254	3.90	U	3.90	24.2	ug/kg
37324-23-5	Aroclor-1262	6.50	U	6.50	24.2	ug/kg
11100-14-4	Aroclor-1268	4.90	U	4.90	24.2	ug/kg
11096-82-5	Aroclor-1260	226		4.10	24.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	28.0		30 (32) - 150 (144)	140%	SPK: 20
2051-24-3	Decachlorobiphenyl	26.0		30 (32) - 150 (175)	130%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1016-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1016-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1016-5	(5)	6.15	6.15	6.16	6.15	6.15	6.15	6.05	6.25
Aroclor-1260-1	(1)	7.27	7.27	7.28	7.27	7.28	7.27	7.17	7.37
Aroclor-1260-2	(2)	7.52	7.53	7.53	7.53	7.53	7.53	7.43	7.63
Aroclor-1260-3	(3)	7.88	7.89	7.89	7.88	7.89	7.89	7.79	7.99
Aroclor-1260-4	(4)	8.11	8.11	8.11	8.11	8.11	8.11	8.01	8.21
Aroclor-1260-5	(5)	8.43	8.43	8.43	8.43	8.43	8.43	8.33	8.53
Decachlorobiphenyl		10.25	10.26	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene		4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63
Aroclor-1242-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1242-2	(2)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-3	(3)	5.76	5.76	5.77	5.76	5.76	5.76	5.66	5.86
Aroclor-1242-4	(4)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1242-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.25	10.26	10.25	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.53	4.53	4.43	4.63
Aroclor-1248-1	(1)	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Aroclor-1248-2	(2)	5.95	5.95	5.95	5.95	5.95	5.95	5.85	6.05
Aroclor-1248-3	(3)	6.15	6.16	6.15	6.15	6.15	6.15	6.05	6.25
Aroclor-1248-4	(4)	6.55	6.56	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1248-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		10.26	10.26	10.26	10.26	10.25	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.53	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1254-1	(1)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-2	(2)	6.75	6.74	6.75	6.75	6.74	6.75	6.65	6.85
Aroclor-1254-3	(3)	7.11	7.11	7.11	7.11	7.11	7.11	7.01	7.21
Aroclor-1254-4	(4)	7.39	7.39	7.39	7.39	7.39	7.39	7.29	7.49
Aroclor-1254-5	(5)	7.81	7.80	7.81	7.81	7.81	7.81	7.71	7.91
Decachlorobiphenyl		10.26	10.25	10.26	10.26	10.26	10.26	10.16	10.36
Tetrachloro-m-xylene		4.53	4.52	4.53	4.53	4.52	4.53	4.43	4.63
Aroclor-1268-1	(1)	8.74	8.75	8.75	8.74	8.75	8.75	8.65	8.85
Aroclor-1268-2	(2)	8.84	8.84	8.84	8.84	8.84	8.84	8.74	8.94
Aroclor-1268-3	(3)	9.07	9.07	9.07	9.07	9.07	9.07	8.97	9.17
Aroclor-1268-4	(4)	9.49	9.49	9.49	9.49	9.49	9.49	9.39	9.59
Aroclor-1268-5	(5)	9.91	9.91	9.91	9.91	9.91	9.91	9.81	10.01

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.25	10.25	10.26	10.25	10.26	10.25	10.15	10.35
Tetrachloro-m-xylene	4.52	4.53	4.53	4.52	4.53	4.53	4.43	4.63

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP069996.D RT 750 = PP069997.D

RT 500 = PP069998.D RT 250 = PP069999.D RT 050 = PP070000.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1016-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1016-4	(4)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-5	(5)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1260-1	(1)	6.41	6.41	6.41	6.41	6.41	6.41	6.31	6.51
Aroclor-1260-2	(2)	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Aroclor-1260-3	(3)	6.75	6.75	6.75	6.75	6.75	6.75	6.65	6.85
Aroclor-1260-4	(4)	7.23	7.23	7.23	7.23	7.23	7.23	7.13	7.33
Aroclor-1260-5	(5)	7.47	7.47	7.47	7.47	7.47	7.47	7.37	7.57
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1242-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-2	(2)	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Aroclor-1242-3	(3)	5.12	5.12	5.12	5.12	5.12	5.12	5.02	5.22
Aroclor-1242-4	(4)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1242-5	(5)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1248-1	(1)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1248-2	(2)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-3	(3)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
Aroclor-1248-4	(4)	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Aroclor-1248-5	(5)	5.77	5.77	5.77	5.77	5.77	5.77	5.67	5.87
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1254-1	(1)	5.73	5.73	5.73	5.73	5.73	5.73	5.63	5.83
Aroclor-1254-2	(2)	5.88	5.88	5.88	5.88	5.87	5.88	5.78	5.98
Aroclor-1254-3	(3)	6.28	6.28	6.28	6.28	6.28	6.28	6.18	6.38
Aroclor-1254-4	(4)	6.51	6.51	6.51	6.51	6.51	6.51	6.41	6.61
Aroclor-1254-5	(5)	6.93	6.93	6.93	6.93	6.93	6.93	6.83	7.03
Decachlorobiphenyl		8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene		3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93
Aroclor-1268-1	(1)	7.75	7.75	7.75	7.75	7.75	7.75	7.65	7.85
Aroclor-1268-2	(2)	7.81	7.82	7.82	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-3	(3)	8.02	8.02	8.02	8.02	8.02	8.02	7.92	8.12
Aroclor-1268-4	(4)	8.32	8.32	8.32	8.31	8.32	8.32	8.22	8.42
Aroclor-1268-5	(5)	8.62	8.62	8.62	8.62	8.62	8.62	8.52	8.72

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
Tetrachloro-m-xylene	3.83	3.83	3.83	3.83	3.83	3.83	3.73	3.93

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	45557625	47855512	49968516	54800208	50948980	49826168	7
Aroclor-1016-2	(2)	66706952	67781012	72991154	76640772	69769920	70777962	6
Aroclor-1016-3	(3)	40794671	44579197	45146958	47844192	41247180	43922440	7
Aroclor-1016-4	(4)	33978080	35043389	37559532	39668600	35057220	36261364	6
Aroclor-1016-5	(5)	31514906	31680175	34068042	35364724	35064900	33538549	5
Aroclor-1260-1	(1)	54823994	55486535	59388846	62695304	59405260	58359988	6
Aroclor-1260-2	(2)	73383444	75987972	80712800	85961116	92581060	81725278	9
Aroclor-1260-3	(3)	59489338	60560020	64011918	67792592	61951460	62761066	5
Aroclor-1260-4	(4)	58704582	59596489	63141360	67201512	68361020	63400993	7
Aroclor-1260-5	(5)	124764910	128178828	134805260	140592412	127581700	131184622	5
Decachlorobiphenyl		1071742430	1139629213	1165555660	1227723520	1090515400	1139033245	5
Tetrachloro-m-xylene		1433727050	1435859520	1533424440	1590932200	1344174400	1467623522	7
Aroclor-1242-1	(1)	38359202	40766156	41566668	47963164	43620760	42455190	9
Aroclor-1242-2	(2)	56757612	55666953	60328714	62664932	52294440	57542530	7
Aroclor-1242-3	(3)	34692482	36785992	38528310	46539712	33080140	37925327	14
Aroclor-1242-4	(4)	28738709	28291829	32018112	32372976	27652280	29814781	7
Aroclor-1242-5	(5)	32588629	32785485	35429746	39255208	36117200	35235254	8
Decachlorobiphenyl		1021050090	1049520227	1099648880	1125224680	979176800	1054924135	6
Tetrachloro-m-xylene		1392047690	1350066600	1467421460	1456806320	1242599600	1381788334	7
Aroclor-1248-1	(1)	29585124	31433301	32559076	36305496	33667780	32710155	8
Aroclor-1248-2	(2)	39473771	42013749	42864276	46958912	39450360	42152214	7
Aroclor-1248-3	(3)	43926772	44170904	46948106	50004072	40811360	45172243	8
Aroclor-1248-4	(4)	53918087	55655911	58640506	66304332	60297700	58963307	8
Aroclor-1248-5	(5)	51833391	52919351	56894804	67563228	56719440	57186043	11
Decachlorobiphenyl		1044729320	1067835560	1119982260	1186291160	1031748600	1090117380	6
Tetrachloro-m-xylene		1393266240	1426265507	1481945040	1527838200	1310175600	1427898117	6
Aroclor-1254-1	(1)	51156577	57570420	60622162	67008468	47144000	56700325	14
Aroclor-1254-2	(2)	78872042	81254612	86985854	93340172	97974740	87685484	9
Aroclor-1254-3	(3)	79973406	82322503	87641586	92940192	102754200	89126377	10
Aroclor-1254-4	(4)	66856800	68050653	73453394	76814612	87380160	74511124	11
Aroclor-1254-5	(5)	65315189	68448207	69620926	72356948	60070200	67162294	7
Decachlorobiphenyl		1075591380	1094765307	1221801800	1207489520	1097348200	1139399241	6
Tetrachloro-m-xylene		1443804100	1475957520	1555264320	1605313440	1392239200	1494515716	6
Aroclor-1268-1	(1)	188433469	184749517	193628348	206851508	186804180	192093404	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	162697797	159627413	168307400	177293676	160000200	165585297	4
Aroclor-1268-3	(3)	141621356	137143849	145386650	153273656	140094780	143504058	4
Aroclor-1268-4	(4)	63392961	60284985	64357574	66970196	60240320	63049207	5
Aroclor-1268-5	(5)	414016384	401287087	418333378	444189832	401775920	415920520	4
Decachlorobiphenyl		1839528480	1828279133	1916502300	2031355480	1847859400	1892704959	4
Tetrachloro-m-xylene		1501238100	1376017987	1532711540	1621137720	1417123400	1489645749	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Instrument ID: ECD_P **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP069996.D **CF 750 =** PP069997.D

CF 500 = PP069998.D **CF 250 =** PP069999.D **CF 050 =** PP070000.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	29885830	30191223	33586918	36186236	37142680	33398577	10
Aroclor-1016-2	(2)	42247324	42370143	46984138	50510676	50858960	46594248	9
Aroclor-1016-3	(3)	23325129	22666977	25816242	27757500	25596220	25032414	8
Aroclor-1016-4	(4)	18421261	17991491	20585360	22152124	21203180	20070683	9
Aroclor-1016-5	(5)	23822938	23028484	26536406	28616852	27728040	25946544	9
Aroclor-1260-1	(1)	44977992	45171227	49550340	56779968	51216800	49539265	10
Aroclor-1260-2	(2)	59688698	59926561	64720792	71640216	71124240	65420101	9
Aroclor-1260-3	(3)	52251359	51461445	57261004	62988144	77648420	60322074	18
Aroclor-1260-4	(4)	44361395	45109507	48615116	51524344	54726600	48867392	9
Aroclor-1260-5	(5)	111484150	113477796	119592622	125243744	126075940	119174850	6
Decachlorobiphenyl		984571270	1029317907	1118262220	1135932120	1152437600	1084104223	7
Tetrachloro-m-xylene		879784240	907640400	952717360	1058760600	981262000	956032920	7
Aroclor-1242-1	(1)	25489035	24475017	27848416	27117444	28407820	26667546	6
Aroclor-1242-2	(2)	35977820	35199769	38539928	39076044	37212540	37201220	4
Aroclor-1242-3	(3)	19863858	18273261	20997152	20082888	19211500	19685732	5
Aroclor-1242-4	(4)	18777771	17922656	19968364	21100536	20505160	19654897	7
Aroclor-1242-5	(5)	24360224	22407967	26366090	27368000	23855560	24871568	8
Decachlorobiphenyl		899284040	984619373	1017502000	1027377360	962336000	978223755	5
Tetrachloro-m-xylene		920809800	854904253	959106780	929536920	894966400	911864831	4
Aroclor-1248-1	(1)	19339318	20312839	22158310	22596092	21441940	21169700	6
Aroclor-1248-2	(2)	25841628	26874321	28982946	30984640	28578600	28252427	7
Aroclor-1248-3	(3)	26866525	28025000	30088164	32810700	30987640	29755606	8
Aroclor-1248-4	(4)	31739244	33065895	35285822	36808472	38827540	35145395	8
Aroclor-1248-5	(5)	32923317	34190145	36090288	38291344	39345240	36168067	7
Decachlorobiphenyl		999826530	1002616133	1003875200	1054961080	1165261200	1045308029	7
Tetrachloro-m-xylene		903111320	931293867	957405100	986258320	972075400	950028801	3
Aroclor-1254-1	(1)	50279933	51640439	55752488	60013056	55160920	54569367	7
Aroclor-1254-2	(2)	44271421	45567105	49578352	53549416	50761380	48745535	8
Aroclor-1254-3	(3)	70979950	72598121	78881282	84287020	72336540	75816583	7
Aroclor-1254-4	(4)	50771725	50149405	54249580	57298592	44830820	51460024	9
Aroclor-1254-5	(5)	64408865	66088107	72696700	75630908	59021560	67569228	10
Decachlorobiphenyl		963124600	1013018133	1145558760	1245512000	1148271200	1103096939	10
Tetrachloro-m-xylene		957176240	952284093	991535260	1081903280	978837400	992347255	5
Aroclor-1268-1	(1)	160284327	157759444	159569126	170516088	180615940	165748985	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	139528496	137224495	137304354	146542344	164608100	145041558	8
Aroclor-1268-3	(3)	118669811	115934707	120470364	129761704	127485360	122464389	5
Aroclor-1268-4	(4)	50956768	50155827	52914114	57814536	54084040	53185057	6
Aroclor-1268-5	(5)	345492428	353062379	344150492	366619864	366772500	355219533	3
Decachlorobiphenyl		1574839450	1670989493	1686779340	1791292760	1882315600	1721243329	7
Tetrachloro-m-xylene		969499550	855552893	995885280	1076293640	1034726400	986391553	8

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.73	4.63	4.83	18915900
		2	4.81	4.71	4.91	14591600
		3	4.89	4.79	4.99	43158200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.89	4.79	4.99	32884000
		2	5.42	5.32	5.52	16260200
		3	5.70	5.60	5.80	34867200
		4	5.86	5.76	5.96	17799400
		5	5.95	5.85	6.05	12607200
Aroclor-1262	500	1	8.11	8.01	8.21	80729000
		2	8.43	8.33	8.53	161087000
		3	8.75	8.65	8.85	110612000
		4	8.84	8.74	8.94	83914000
		5	9.49	9.39	9.59	58804600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Instrument ID: ECD_P **Date(s) Analyzed:** 02/24/2025 02/24/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.04	3.94	4.14	13421200
		2	4.13	4.03	4.23	10166200
		3	4.21	4.11	4.31	30359600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.21	4.11	4.31	22742000
		2	4.94	4.84	5.04	22833200
		3	5.12	5.02	5.22	12024000
		4	5.20	5.10	5.30	10865300
		5	5.37	5.27	5.47	11305400
Aroclor-1262	500	1	6.97	6.87	7.07	83475400
		2	7.23	7.13	7.33	66291000
		3	7.75	7.65	7.85	60580400
		4	7.81	7.71	7.91	105474000
		5	8.32	8.22	8.42	51930200

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Continuing Calib Date: 02/25/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 09:43 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.77	5.77	5.67	5.87	0.00
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.16	6.16	6.06	6.26	0.00
Aroclor-1260-1	(1)	7.28	7.28	7.18	7.38	0.00
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.88	7.89	7.79	7.99	0.01
Aroclor-1260-4	(4)	8.12	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.44	8.43	8.33	8.53	-0.01
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.26	10.26	10.16	10.36	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Continuing Calib Date: 02/25/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 09:43 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.12	5.12	5.02	5.22	0.00
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.76	6.75	6.65	6.85	-0.01
Aroclor-1260-4	(4)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-5	(5)	7.47	7.47	7.37	7.57	0.00
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.89	8.89	8.79	8.99	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/25/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070030.D **Time Analyzed:** 09:43

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.683	5.581	5.781	505.940	500.000	1.2
Aroclor-1016-2	5.704	5.602	5.802	520.740	500.000	4.1
Aroclor-1016-3	5.767	5.665	5.865	499.380	500.000	-0.1
Aroclor-1016-4	5.864	5.762	5.962	514.200	500.000	2.8
Aroclor-1016-5	6.157	6.056	6.256	514.170	500.000	2.8
Aroclor-1260-1	7.277	7.175	7.375	514.020	500.000	2.8
Aroclor-1260-2	7.530	7.429	7.629	496.310	500.000	-0.7
Aroclor-1260-3	7.884	7.788	7.988	585.370	500.000	17.1
Aroclor-1260-4	8.115	8.012	8.212	519.540	500.000	3.9
Aroclor-1260-5	8.435	8.333	8.533	515.640	500.000	3.1
Decachlorobiphenyl	10.262	10.156	10.356	51.550	50.000	3.1
Tetrachloro-m-xylene	4.529	4.427	4.627	53.390	50.000	6.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/25/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070030.D **Time Analyzed:** 09:43

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.920	4.820	5.020	511.860	500.000	2.4
Aroclor-1016-2	4.939	4.839	5.039	517.760	500.000	3.6
Aroclor-1016-3	5.117	5.017	5.217	535.770	500.000	7.2
Aroclor-1016-4	5.158	5.058	5.258	534.310	500.000	6.9
Aroclor-1016-5	5.374	5.273	5.473	527.970	500.000	5.6
Aroclor-1260-1	6.412	6.312	6.512	523.760	500.000	4.8
Aroclor-1260-2	6.599	6.500	6.700	520.310	500.000	4.1
Aroclor-1260-3	6.755	6.654	6.854	482.990	500.000	-3.4
Aroclor-1260-4	7.226	7.126	7.326	532.640	500.000	6.5
Aroclor-1260-5	7.467	7.367	7.567	503.450	500.000	0.7
Decachlorobiphenyl	8.889	8.788	8.988	48.530	50.000	-2.9
Tetrachloro-m-xylene	3.831	3.730	3.930	51.350	50.000	2.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Continuing Calib Date: 02/25/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 15:27 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.77	5.77	5.67	5.87	0.00
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.16	6.16	6.06	6.26	0.00
Aroclor-1260-1	(1)	7.28	7.28	7.18	7.38	0.00
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.26	10.26	10.16	10.36	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Continuing Calib Date: 02/25/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 15:27 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.12	5.12	5.02	5.22	0.00
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.38	5.37	5.27	5.47	-0.01
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.76	6.75	6.65	6.85	-0.01
Aroclor-1260-4	(4)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-5	(5)	7.47	7.47	7.37	7.57	0.00
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.89	8.89	8.79	8.99	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/25/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070045.D **Time Analyzed:** 15:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.682	5.581	5.781	493.070	500.000	-1.4
Aroclor-1016-2	5.703	5.602	5.802	488.280	500.000	-2.3
Aroclor-1016-3	5.766	5.665	5.865	485.740	500.000	-2.9
Aroclor-1016-4	5.863	5.762	5.962	479.880	500.000	-4.0
Aroclor-1016-5	6.156	6.056	6.256	494.780	500.000	-1.0
Aroclor-1260-1	7.276	7.175	7.375	470.130	500.000	-6.0
Aroclor-1260-2	7.529	7.429	7.629	457.880	500.000	-8.4
Aroclor-1260-3	7.888	7.788	7.988	484.630	500.000	-3.1
Aroclor-1260-4	8.113	8.012	8.212	477.180	500.000	-4.6
Aroclor-1260-5	8.433	8.333	8.533	494.540	500.000	-1.1
Decachlorobiphenyl	10.258	10.156	10.356	49.540	50.000	-0.9
Tetrachloro-m-xylene	4.528	4.427	4.627	50.690	50.000	1.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/25/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070045.D **Time Analyzed:** 15:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.922	4.820	5.020	474.050	500.000	-5.2
Aroclor-1016-2	4.941	4.839	5.039	475.050	500.000	-5.0
Aroclor-1016-3	5.118	5.017	5.217	482.530	500.000	-3.5
Aroclor-1016-4	5.160	5.058	5.258	484.710	500.000	-3.1
Aroclor-1016-5	5.375	5.273	5.473	481.080	500.000	-3.8
Aroclor-1260-1	6.413	6.312	6.512	468.300	500.000	-6.3
Aroclor-1260-2	6.601	6.500	6.700	476.360	500.000	-4.7
Aroclor-1260-3	6.755	6.654	6.854	428.530	500.000	-14.3
Aroclor-1260-4	7.228	7.126	7.326	444.280	500.000	-11.1
Aroclor-1260-5	7.468	7.367	7.567	467.420	500.000	-6.5
Decachlorobiphenyl	8.890	8.788	8.988	46.920	50.000	-6.2
Tetrachloro-m-xylene	3.832	3.730	3.930	48.180	50.000	-3.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Continuing Calib Date: 02/25/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 19:04 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.68	5.58	5.78	0.00
Aroclor-1016-2	(2)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-3	(3)	5.76	5.77	5.67	5.87	0.01
Aroclor-1016-4	(4)	5.86	5.86	5.76	5.96	0.00
Aroclor-1016-5	(5)	6.15	6.16	6.06	6.26	0.01
Aroclor-1260-1	(1)	7.27	7.28	7.18	7.38	0.01
Aroclor-1260-2	(2)	7.53	7.53	7.43	7.63	0.00
Aroclor-1260-3	(3)	7.89	7.89	7.79	7.99	0.00
Aroclor-1260-4	(4)	8.11	8.11	8.01	8.21	0.00
Aroclor-1260-5	(5)	8.43	8.43	8.33	8.53	0.00
Tetrachloro-m-xylene		4.53	4.53	4.43	4.63	0.00
Decachlorobiphenyl		10.26	10.26	10.16	10.36	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

Continuing Calib Date: 02/25/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 19:04 **Initial Calibration Time(s):** 14:59 22:17

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-2	(2)	4.94	4.94	4.84	5.04	0.00
Aroclor-1016-3	(3)	5.12	5.12	5.02	5.22	0.00
Aroclor-1016-4	(4)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-5	(5)	5.37	5.37	5.27	5.47	0.00
Aroclor-1260-1	(1)	6.41	6.41	6.31	6.51	0.00
Aroclor-1260-2	(2)	6.60	6.60	6.50	6.70	0.00
Aroclor-1260-3	(3)	6.75	6.75	6.65	6.85	0.00
Aroclor-1260-4	(4)	7.23	7.23	7.13	7.33	0.00
Aroclor-1260-5	(5)	7.47	7.47	7.37	7.57	0.00
Tetrachloro-m-xylene		3.83	3.83	3.73	3.93	0.00
Decachlorobiphenyl		8.89	8.89	8.79	8.99	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL03 **Date Analyzed:** 02/25/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070057.D **Time Analyzed:** 19:04

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.681	5.581	5.781	504.510	500.000	0.9
Aroclor-1016-2	5.702	5.602	5.802	518.780	500.000	3.8
Aroclor-1016-3	5.764	5.665	5.865	596.270	500.000	19.3
Aroclor-1016-4	5.862	5.762	5.962	533.560	500.000	6.7
Aroclor-1016-5	6.154	6.056	6.256	597.690	500.000	19.5
Aroclor-1260-1	7.274	7.175	7.375	546.230	500.000	9.2
Aroclor-1260-2	7.528	7.429	7.629	485.180	500.000	-3.0
Aroclor-1260-3	7.886	7.788	7.988	518.870	500.000	3.8
Aroclor-1260-4	8.111	8.012	8.212	508.370	500.000	1.7
Aroclor-1260-5	8.432	8.333	8.533	517.950	500.000	3.6
Decachlorobiphenyl	10.255	10.156	10.356	51.200	50.000	2.4
Tetrachloro-m-xylene	4.528	4.427	4.627	53.380	50.000	6.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1415 **SAS No.:** Q1415 **SDG NO.:** Q1415

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL03 **Date Analyzed:** 02/25/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP070057.D **Time Analyzed:** 19:04

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.920	4.820	5.020	505.210	500.000	1.0
Aroclor-1016-2	4.939	4.839	5.039	502.910	500.000	0.6
Aroclor-1016-3	5.117	5.017	5.217	516.640	500.000	3.3
Aroclor-1016-4	5.158	5.058	5.258	509.820	500.000	2.0
Aroclor-1016-5	5.373	5.273	5.473	534.740	500.000	6.9
Aroclor-1260-1	6.412	6.312	6.512	491.190	500.000	-1.8
Aroclor-1260-2	6.599	6.500	6.700	491.950	500.000	-1.6
Aroclor-1260-3	6.753	6.654	6.854	476.690	500.000	-4.7
Aroclor-1260-4	7.226	7.126	7.326	539.140	500.000	7.8
Aroclor-1260-5	7.467	7.367	7.567	529.100	500.000	5.8
Decachlorobiphenyl	8.888	8.788	8.988	53.790	50.000	7.6
Tetrachloro-m-xylene	3.831	3.730	3.930	50.160	50.000	0.3

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/24/2025	14:43	PP069995.D	10.25	4.53
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	10.25	4.52
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	10.26	4.53
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	10.26	4.53
AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	10.25	4.52
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	10.26	4.53
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	10.25	4.52
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	10.26	4.53
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	10.26	4.53
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	10.25	4.52
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	10.26	4.53
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	10.25	4.53
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	10.26	4.53
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	10.26	4.53
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	10.26	4.53
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	10.26	4.53
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	10.26	4.53
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	10.25	4.52
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	10.26	4.53
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	10.25	4.52
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	10.26	4.53
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	10.26	4.53
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	10.26	4.52
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	10.25	4.53
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	10.25	4.52
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	10.25	4.53
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	10.26	4.53
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	10.25	4.52
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	10.26	4.53
AR1660CCC500	AR1660CCC500	02/25/2025	09:43	PP070030.D	10.26	4.53
I.BLK	I.BLK	02/25/2025	10:48	PP070034.D	10.25	4.53
PB166854BL	PB166854BL	02/25/2025	12:23	PP070035.D	10.28	4.54
PB166854BS	PB166854BS	02/25/2025	12:39	PP070036.D	10.26	4.53
B-163-SB01	Q1415-01	02/25/2025	12:55	PP070037.D	10.26	4.53
B-172-SB01	Q1415-02	02/25/2025	13:11	PP070038.D	10.26	4.52
B-163-SB02	Q1415-03	02/25/2025	13:28	PP070039.D	10.26	4.53
B-172-SB02	Q1415-04	02/25/2025	13:44	PP070040.D	10.26	4.53
AR1660CCC500	AR1660CCC500	02/25/2025	15:27	PP070045.D	10.26	4.53
I.BLK	I.BLK	02/25/2025	15:43	PP070046.D	10.26	4.53
P001-CLAY-CF01-01MS	Q1421-02MS	02/25/2025	16:16	PP070048.D	10.26	4.53
P001-CLAY-CF01-01MSD	Q1421-03MSD	02/25/2025	16:32	PP070049.D	10.26	4.53
PB166856BL	PB166856BL	02/25/2025	17:21	PP070052.D	10.26	4.53

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Analytical Sequence

PB166856BS	PB166856BS	02/25/2025	17:37	PP070053.D	10.26	4.53
PB166856BSD	PB166856BSD	02/25/2025	17:53	PP070054.D	10.26	4.53
FB02222025	Q1415-05	02/25/2025	18:10	PP070055.D	10.26	4.53
B-173-GW01	Q1415-06	02/25/2025	18:26	PP070056.D	10.26	4.53
AR1660CCC500	AR1660CCC500	02/25/2025	19:04	PP070057.D	10.26	4.53
I.BLK	I.BLK	02/25/2025	19:20	PP070058.D	10.26	4.53

Alliance TECHNICAL GROUP
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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	02/24/2025	14:43	PP069995.D	8.89	3.83
AR1660ICC1000	AR1660ICC1000	02/24/2025	14:59	PP069996.D	8.89	3.83
AR1660ICC750	AR1660ICC750	02/24/2025	15:15	PP069997.D	8.89	3.83
AR1660ICC500	AR1660ICC500	02/24/2025	15:32	PP069998.D	8.89	3.83
AR1660ICC250	AR1660ICC250	02/24/2025	15:48	PP069999.D	8.89	3.83
AR1660ICC050	AR1660ICC050	02/24/2025	16:04	PP070000.D	8.89	3.83
AR1221ICC500	AR1221ICC500	02/24/2025	16:20	PP070001.D	8.89	3.83
AR1232ICC500	AR1232ICC500	02/24/2025	16:37	PP070002.D	8.89	3.83
AR1242ICC1000	AR1242ICC1000	02/24/2025	16:53	PP070003.D	8.89	3.83
AR1242ICC750	AR1242ICC750	02/24/2025	17:09	PP070004.D	8.89	3.83
AR1242ICC500	AR1242ICC500	02/24/2025	17:25	PP070005.D	8.89	3.83
AR1242ICC250	AR1242ICC250	02/24/2025	17:42	PP070006.D	8.89	3.83
AR1242ICC050	AR1242ICC050	02/24/2025	17:58	PP070007.D	8.89	3.83
AR1248ICC1000	AR1248ICC1000	02/24/2025	18:14	PP070008.D	8.89	3.83
AR1248ICC750	AR1248ICC750	02/24/2025	18:30	PP070009.D	8.89	3.83
AR1248ICC500	AR1248ICC500	02/24/2025	18:46	PP070010.D	8.89	3.83
AR1248ICC250	AR1248ICC250	02/24/2025	19:03	PP070011.D	8.89	3.83
AR1248ICC050	AR1248ICC050	02/24/2025	19:19	PP070012.D	8.89	3.83
AR1254ICC1000	AR1254ICC1000	02/24/2025	19:35	PP070013.D	8.89	3.83
AR1254ICC750	AR1254ICC750	02/24/2025	19:51	PP070014.D	8.89	3.83
AR1254ICC500	AR1254ICC500	02/24/2025	20:08	PP070015.D	8.89	3.83
AR1254ICC250	AR1254ICC250	02/24/2025	20:24	PP070016.D	8.89	3.83
AR1254ICC050	AR1254ICC050	02/24/2025	20:40	PP070017.D	8.89	3.83
AR1262ICC500	AR1262ICC500	02/24/2025	20:56	PP070018.D	8.89	3.83
AR1268ICC1000	AR1268ICC1000	02/24/2025	21:12	PP070019.D	8.89	3.83
AR1268ICC750	AR1268ICC750	02/24/2025	21:29	PP070020.D	8.89	3.83
AR1268ICC500	AR1268ICC500	02/24/2025	21:45	PP070021.D	8.89	3.83
AR1268ICC250	AR1268ICC250	02/24/2025	22:01	PP070022.D	8.89	3.83
AR1268ICC050	AR1268ICC050	02/24/2025	22:17	PP070023.D	8.89	3.83
AR1660CCC500	AR1660CCC500	02/25/2025	09:43	PP070030.D	8.89	3.83
I.BLK	I.BLK	02/25/2025	10:48	PP070034.D	8.89	3.83
PB166854BL	PB166854BL	02/25/2025	12:23	PP070035.D	8.90	3.84
PB166854BS	PB166854BS	02/25/2025	12:39	PP070036.D	8.89	3.83
B-163-SB01	Q1415-01	02/25/2025	12:55	PP070037.D	8.89	3.83
B-172-SB01	Q1415-02	02/25/2025	13:11	PP070038.D	8.89	3.83
B-163-SB02	Q1415-03	02/25/2025	13:28	PP070039.D	8.89	3.83
B-172-SB02	Q1415-04	02/25/2025	13:44	PP070040.D	8.89	3.83
AR1660CCC500	AR1660CCC500	02/25/2025	15:27	PP070045.D	8.89	3.83
I.BLK	I.BLK	02/25/2025	15:43	PP070046.D	8.89	3.83
P001-CLAY-CF01-01MS	Q1421-02MS	02/25/2025	16:16	PP070048.D	8.89	3.83
P001-CLAY-CF01-01MSD	Q1421-03MSD	02/25/2025	16:32	PP070049.D	8.89	3.83
PB166856BL	PB166856BL	02/25/2025	17:21	PP070052.D	8.89	3.83

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Analytical Sequence

PB166856BS	PB166856BS	02/25/2025	17:37	PP070053.D	8.89	3.83
PB166856BSD	PB166856BSD	02/25/2025	17:53	PP070054.D	8.89	3.83
FB02222025	Q1415-05	02/25/2025	18:10	PP070055.D	8.89	3.83
B-173-GW01	Q1415-06	02/25/2025	18:26	PP070056.D	8.89	3.83
AR1660CCC500	AR1660CCC500	02/25/2025	19:04	PP070057.D	8.89	3.83
I.BLK	I.BLK	02/25/2025	19:20	PP070058.D	8.89	3.83

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB166854BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab Sample ID: PB166854BS Date(s) Analyzed: 02/25/2025 02/25/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP070036.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.683	5.633	5.733	161		
	2	5.704	5.654	5.754	170		
	3	5.767	5.717	5.817	163		
COLUMN 1	4	5.864	5.814	5.914	166		
	5	6.158	6.108	6.208	162	164	
	1	4.921	4.871	4.971	164		
	2	4.94	4.89	4.99	165		
	3	5.118	5.068	5.168	170		
	4	5.159	5.109	5.209	166		
COLUMN 2	5	5.375	5.325	5.425	164	166	1.21
Aroclor-1260	1	7.277	7.227	7.327	173		
	2	7.531	7.481	7.581	165		
	3	7.89	7.84	7.94	146		
COLUMN 1	4	8.115	8.065	8.165	154		
	5	8.436	8.386	8.486	151	158	
	1	6.412	6.362	6.462	168		
	2	6.6	6.55	6.65	167		
	3	6.755	6.705	6.805	156		
	4	7.228	7.178	7.278	141		
COLUMN 2	5	7.469	7.419	7.519	145	155	1.92

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

P001-CLAY-CF01-01MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab Sample ID: Q1421-02MS Date(s) Analyzed: 02/25/2025 02/25/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP070048.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.68	5.63	5.73	242		
	2	5.702	5.652	5.752	250		
	3	5.764	5.714	5.814	241		
COLUMN 1	4	5.861	5.811	5.911	246		
	5	6.155	6.105	6.205	236	243	
	1	4.921	4.871	4.971	246		
	2	4.94	4.89	4.99	244		
	3	5.117	5.067	5.167	252		
	4	5.158	5.108	5.208	246		
COLUMN 2	5	5.374	5.324	5.424	243	246	1.23
Aroclor-1260	1	7.274	7.224	7.324	249		
	2	7.528	7.478	7.578	224		
	3	7.887	7.837	7.937	202		
COLUMN 1	4	8.111	8.061	8.161	218		
	5	8.432	8.382	8.482	209	220	
	1	6.412	6.362	6.462	240		
	2	6.6	6.55	6.65	239		
	3	6.754	6.704	6.804	229		
	4	7.227	7.177	7.277	205		
COLUMN 2	5	7.468	7.418	7.518	207	224	1.8

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
P001-CLAY-CF01-01MSI

Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab Sample ID: Q1421-03MSD Date(s) Analyzed: 02/25/2025 02/25/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP070049.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.681	5.631	5.731	250		
	2	5.703	5.653	5.753	253		
	3	5.765	5.715	5.815	247		
COLUMN 1	4	5.862	5.812	5.912	256		
	5	6.155	6.105	6.205	238	249	
	1	4.922	4.872	4.972	238		
	2	4.941	4.891	4.991	240		
	3	5.118	5.068	5.168	245		
	4	5.159	5.109	5.209	240		
COLUMN 2	5	5.375	5.325	5.425	237	240	3.68
Aroclor-1260	1	7.274	7.224	7.324	250		
	2	7.529	7.479	7.579	226		
	3	7.888	7.838	7.938	202		
COLUMN 1	4	8.111	8.061	8.161	214		
	5	8.434	8.384	8.484	211	221	
	1	6.413	6.363	6.463	239		
	2	6.601	6.551	6.651	242		
	3	6.755	6.705	6.805	225		
	4	7.228	7.178	7.278	203		
COLUMN 2	5	7.468	7.418	7.518	220	226	2.24

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB166856BS

Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab Sample ID: PB166856BS Date(s) Analyzed: 02/25/2025 02/25/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP070053.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.681	5.631	5.731	4.89		
	2	5.703	5.653	5.753	5.03		
	3	5.765	5.715	5.815	4.93		
COLUMN 1	4	5.862	5.812	5.912	4.98		
	5	6.156	6.106	6.206	4.86	4.90	
	1	4.921	4.871	4.971	4.81		
	2	4.94	4.89	4.99	4.79		
	3	5.117	5.067	5.167	5.02		
	4	5.159	5.109	5.209	4.88		
COLUMN 2	5	5.374	5.324	5.424	4.78	4.90	0
Aroclor-1260	1	7.275	7.225	7.325	4.95		
	2	7.529	7.479	7.579	4.82		
	3	7.888	7.838	7.938	4.22		
COLUMN 1	4	8.113	8.063	8.163	4.47		
	5	8.434	8.384	8.484	4.43	4.60	
	1	6.412	6.362	6.462	4.93		
	2	6.6	6.55	6.65	4.91		
	3	6.754	6.704	6.804	4.67		
	4	7.227	7.177	7.277	4.25		
COLUMN 2	5	7.468	7.418	7.518	4.38	4.60	0

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PB166856BSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab Sample ID: PB166856BSD Date(s) Analyzed: 02/25/2025 02/25/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP070054.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.678	5.628	5.728	4.95		
	2	5.7	5.65	5.75	5.04		
	3	5.762	5.712	5.812	4.97		
COLUMN 1	4	5.86	5.81	5.91	5.01		
	5	6.153	6.103	6.203	4.79	4.90	
	1	4.922	4.872	4.972	4.96		
	2	4.941	4.891	4.991	4.94		
	3	5.118	5.068	5.168	5.09		
	4	5.159	5.109	5.209	4.95		
COLUMN 2	5	5.375	5.325	5.425	4.91	5.00	2.02
Aroclor-1260	1	7.273	7.223	7.323	5.30		
	2	7.526	7.476	7.576	4.89		
	3	7.885	7.835	7.935	4.42		
COLUMN 1	4	8.109	8.059	8.159	4.57		
	5	8.43	8.38	8.48	4.45	4.70	
	1	6.413	6.363	6.463	4.97		
	2	6.601	6.551	6.651	4.88		
	3	6.755	6.705	6.805	4.63		
	4	7.227	7.177	7.277	4.13		
COLUMN 2	5	7.468	7.418	7.518	4.29	4.60	2.15

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 12:55
Operator : YP\AJ
Sample : Q1415-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-163-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:50:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.528	3.831	35729824	23848173	24.345	24.945
2)	SA Decachlor...	10.260	8.889	24165308	24359431	21.216	22.470
	Target Compounds						

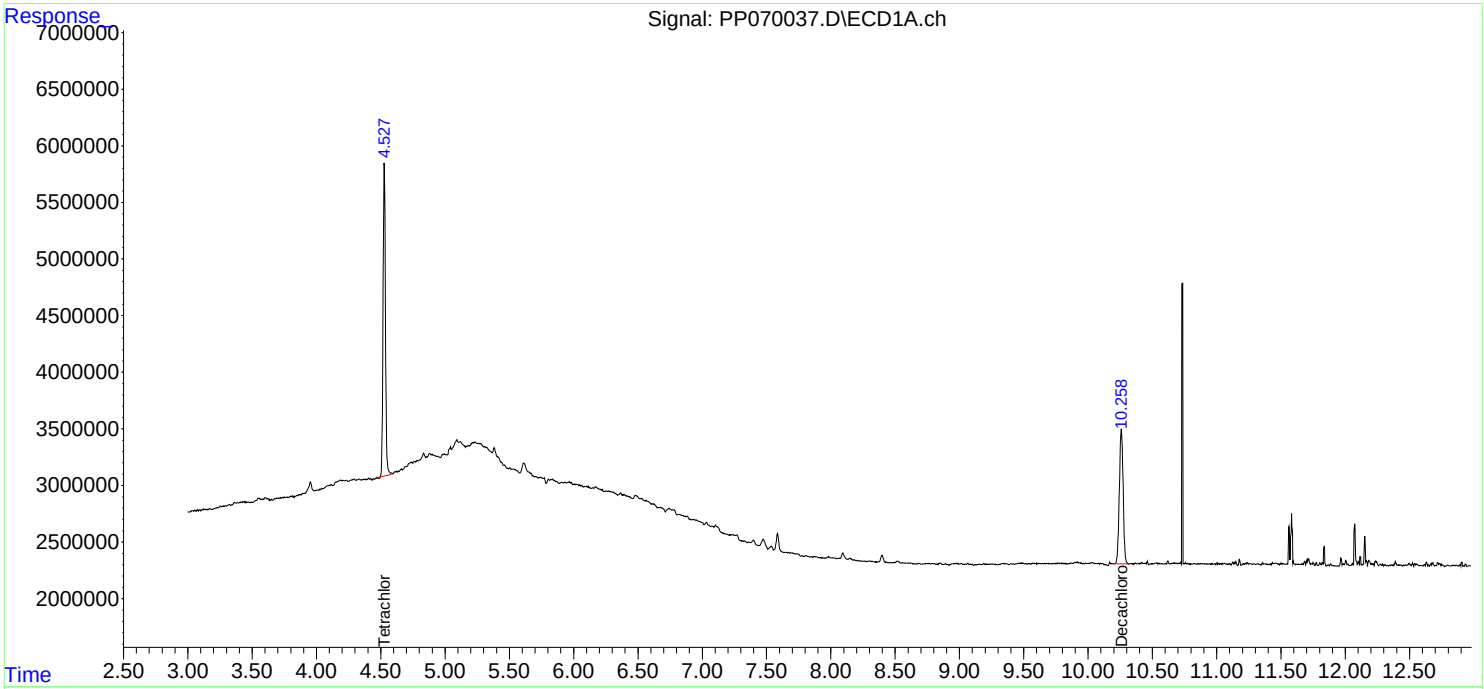
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

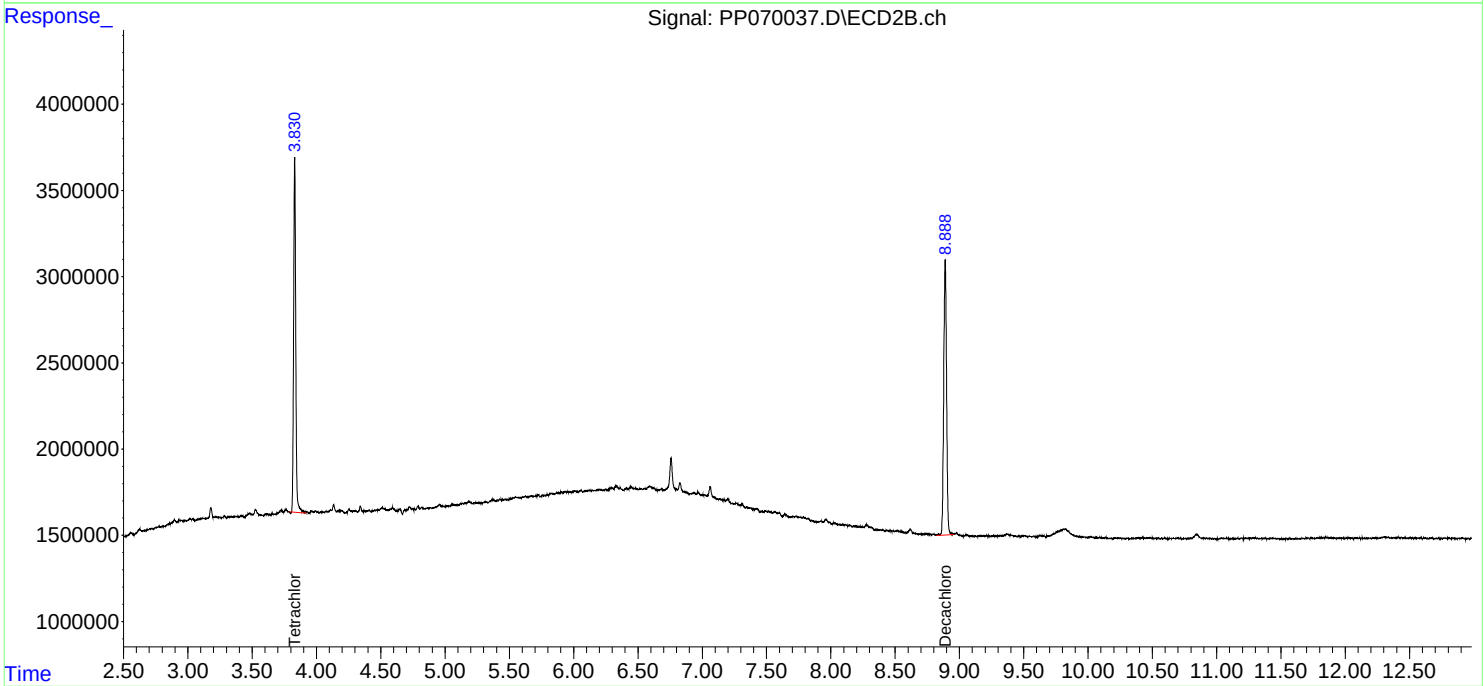
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 12:55
Operator : YP\AJ
Sample : Q1415-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

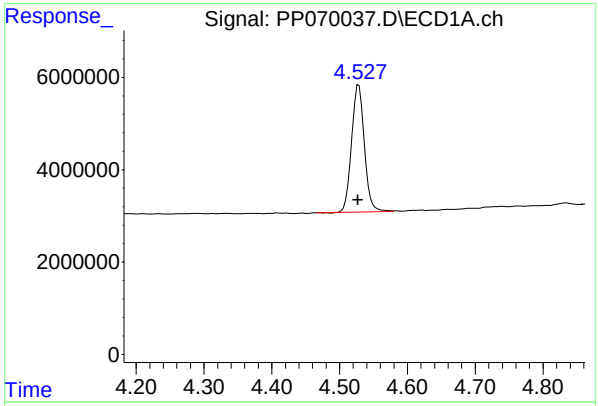
Instrument :
ECD_P
ClientSampleId :
B-163-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:50:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



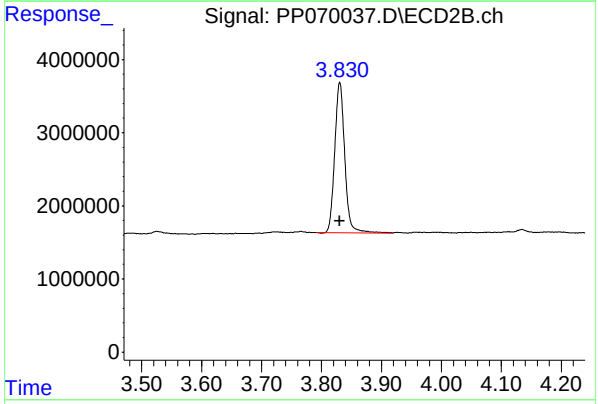




#1 Tetrachloro-m-xylene

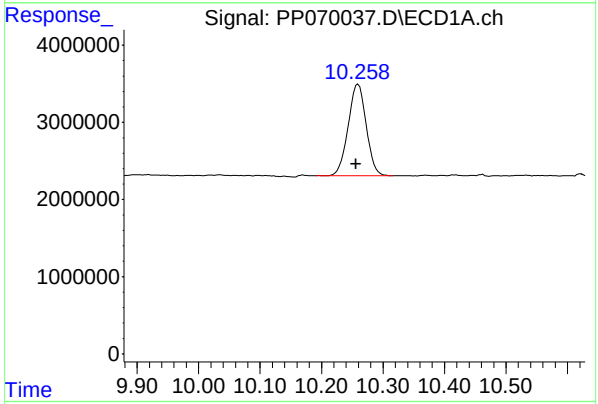
R.T.: 4.528 min
Delta R.T.: 0.001 min
Response: 35729824
Conc: 24.35 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-163-SB01



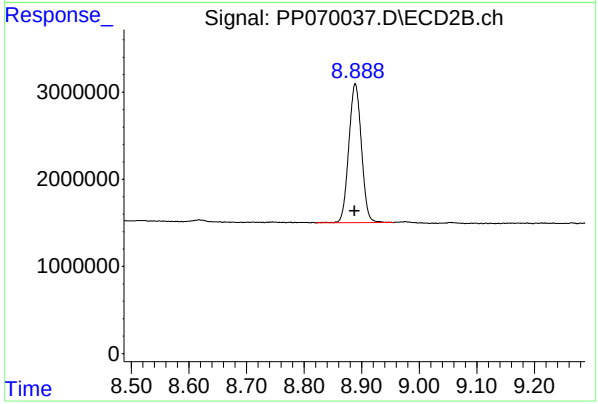
#1 Tetrachloro-m-xylene

R.T.: 3.831 min
Delta R.T.: 0.000 min
Response: 23848173
Conc: 24.94 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.260 min
Delta R.T.: 0.004 min
Response: 24165308
Conc: 21.22 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.889 min
Delta R.T.: 0.000 min
Response: 24359431
Conc: 22.47 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 13:11
Operator : YP\AJ
Sample : Q1415-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-172-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:51:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.524	3.830	38962776	25564378	26.548	26.740
2)	SA Decachlor...	10.255	8.888	26208857	26041840	23.010	24.022
	Target Compounds						

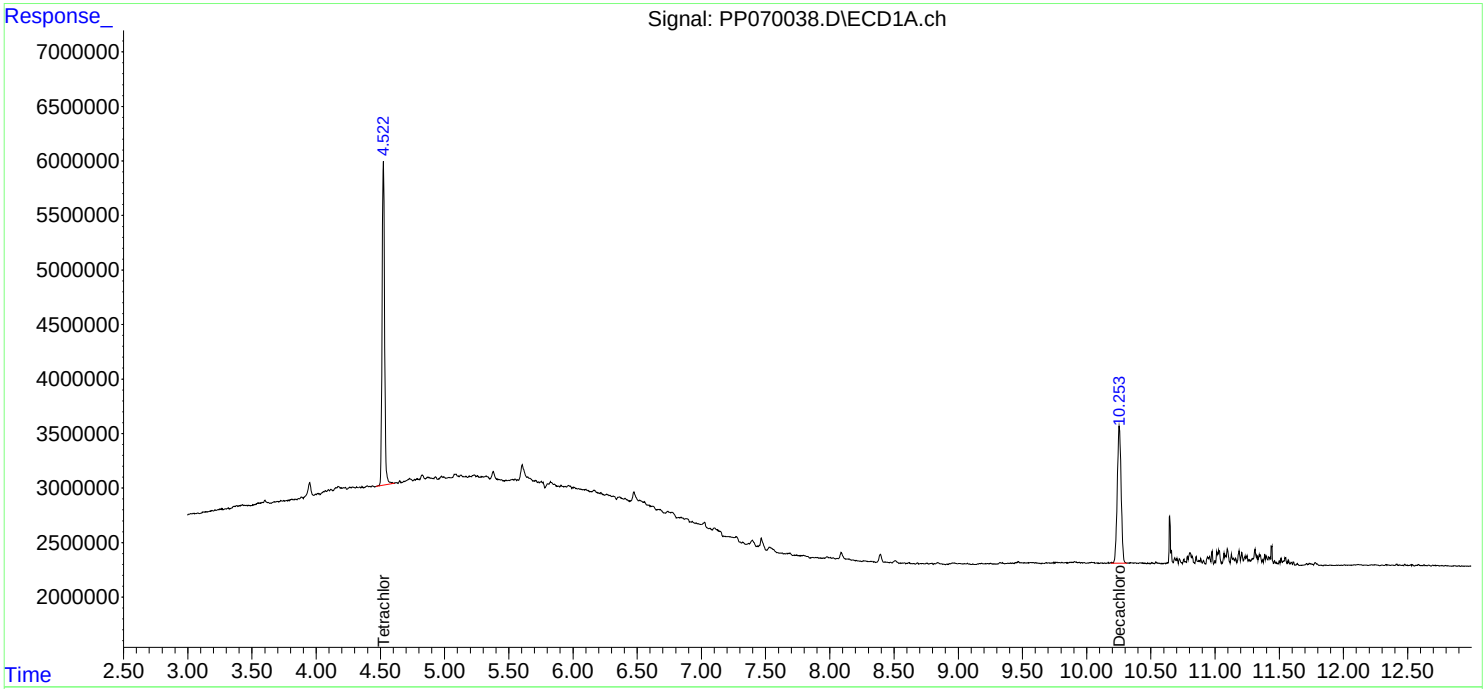
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

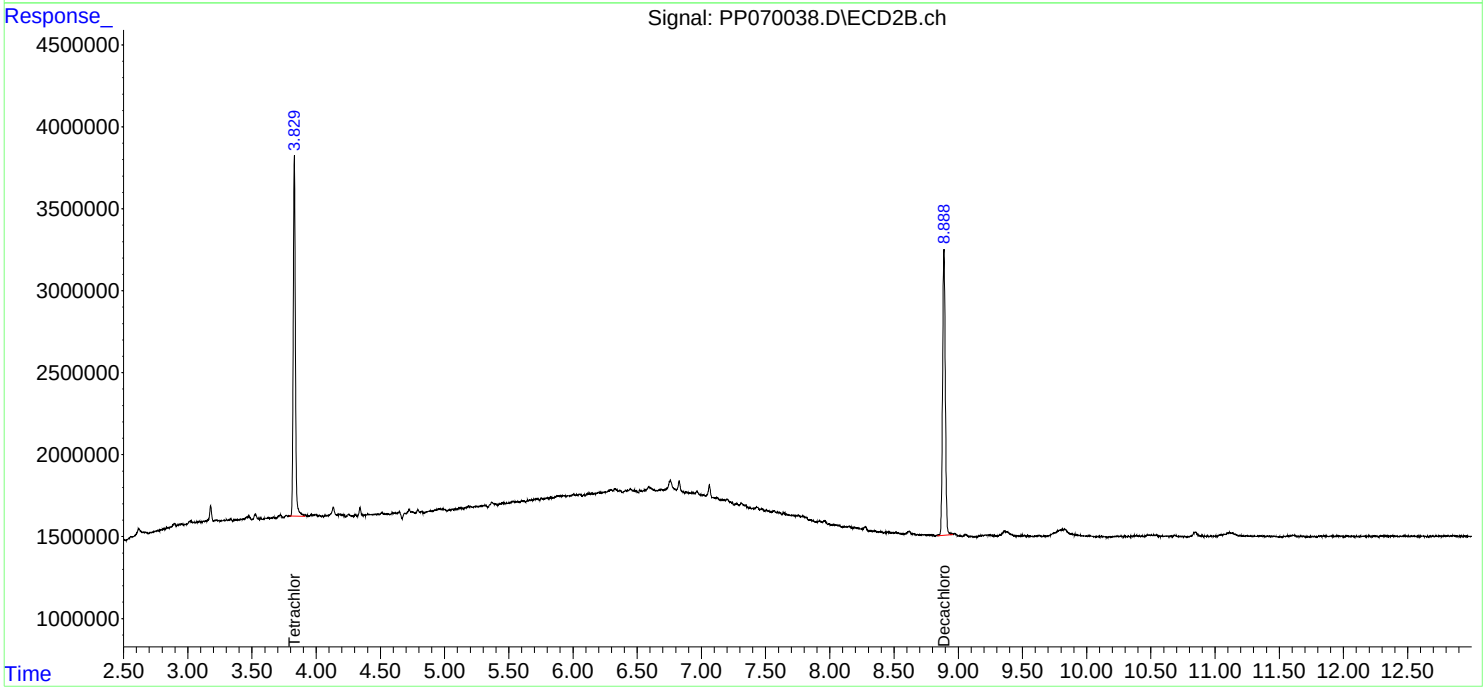
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 13:11
Operator : YP\AJ
Sample : Q1415-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

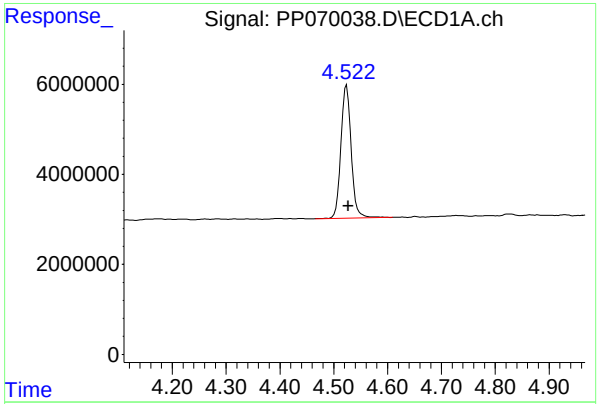
Instrument :
ECD_P
ClientSampleId :
B-172-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:51:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



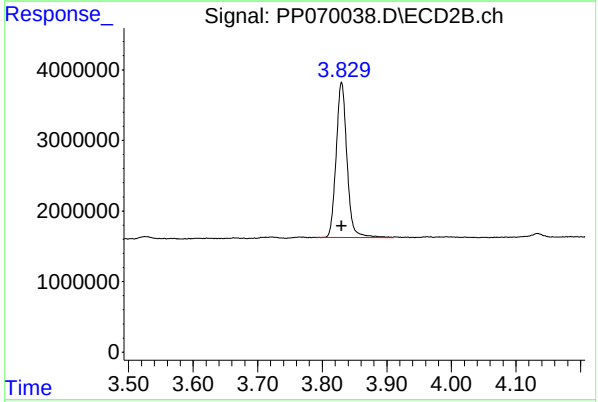




#1 Tetrachloro-m-xylene

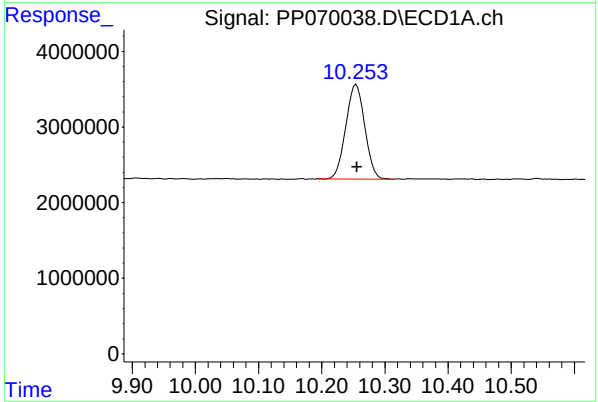
R.T.: 4.524 min
Delta R.T.: -0.003 min
Response: 38962776
Conc: 26.55 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-172-SB01



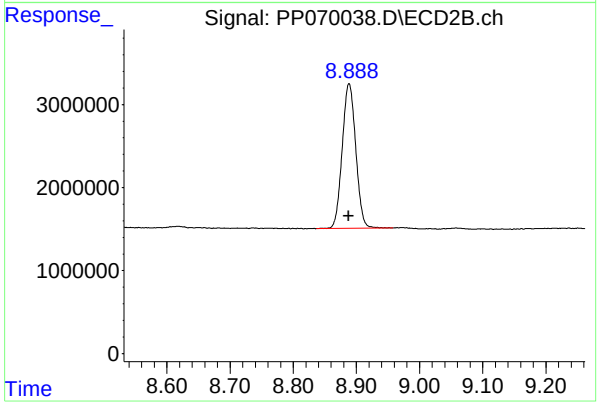
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 25564378
Conc: 26.74 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.255 min
Delta R.T.: -0.001 min
Response: 26208857
Conc: 23.01 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.888 min
Delta R.T.: 0.000 min
Response: 26041840
Conc: 24.02 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 13:28
Operator : YP\AJ
Sample : Q1415-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-163-SB02

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:52:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	4.528	3.830	35035987	23515727	23.873	24.597
2) SA	Decachlor...	10.258	8.889	20467570	19007003	17.969m	17.532
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

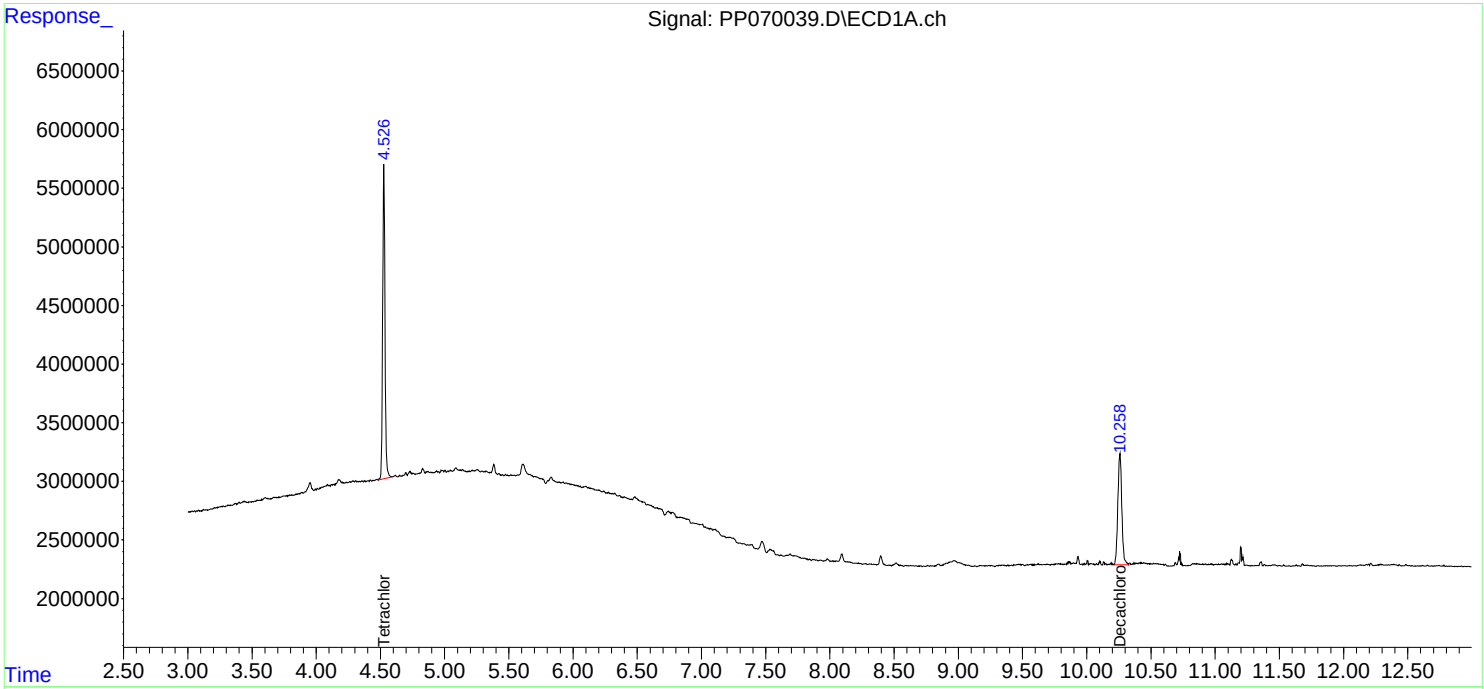
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 13:28
Operator : YP\AJ
Sample : Q1415-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

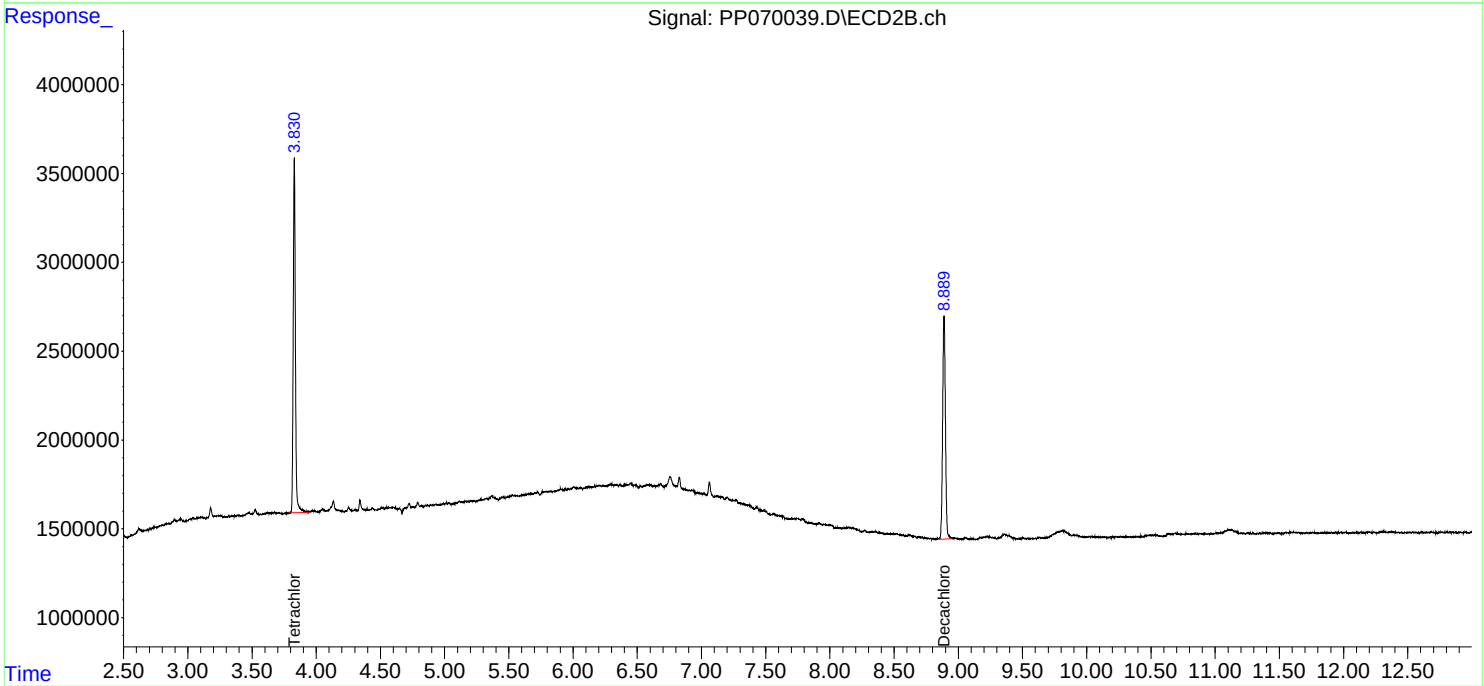
Instrument :
ECD_P
ClientSampleId :
B-163-SB02

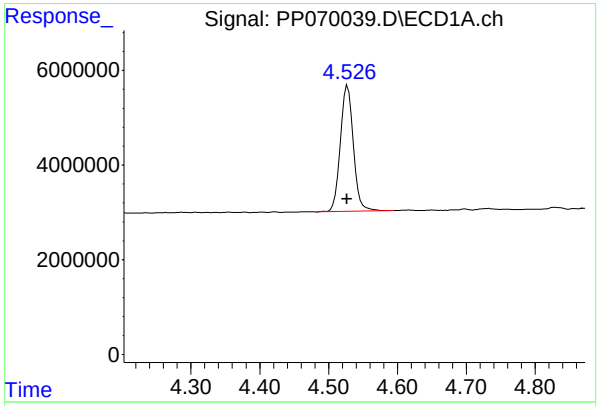
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:52:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







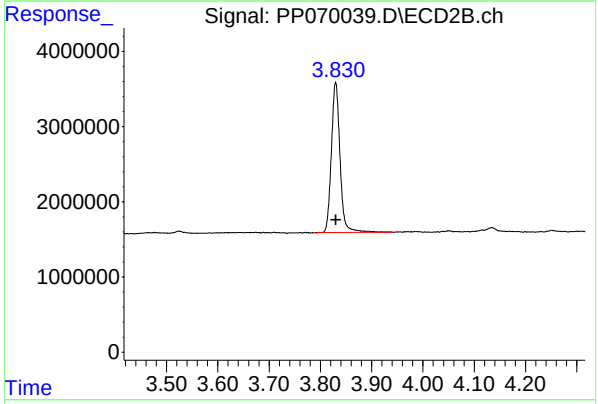
#1 Tetrachloro-m-xylene

R.T.: 4.528 min
Delta R.T.: 0.000 mi
Response: 35035987
Conc: 23.87 ng/m

Instrument :
ECD_P
ClientSampleId :
B-163-SB02

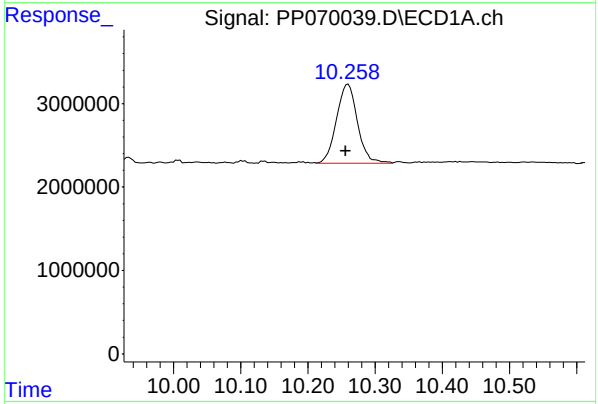
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025



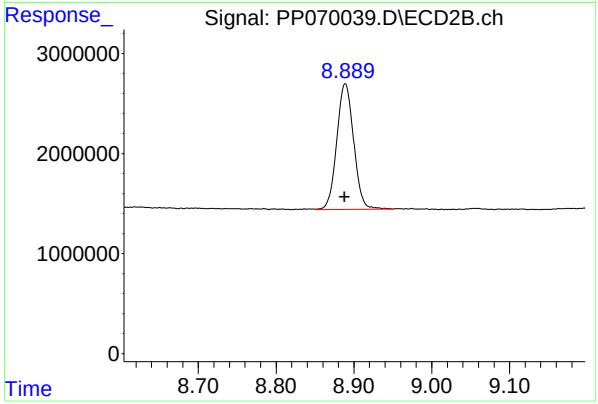
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 23515727
Conc: 24.60 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.258 min
Delta R.T.: 0.002 min
Response: 20467570
Conc: 17.97 ng/ml m



#2 Decachlorobiphenyl

R.T.: 8.889 min
Delta R.T.: 0.001 min
Response: 19007003
Conc: 17.53 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 13:44
Operator : YP\AJ
Sample : Q1415-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-172-SB02

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:53:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.528	3.830	37679784	24769299	25.674	25.908
2)	SA Decachlor...	10.256	8.889	27067998	23089432	23.764m	21.298
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

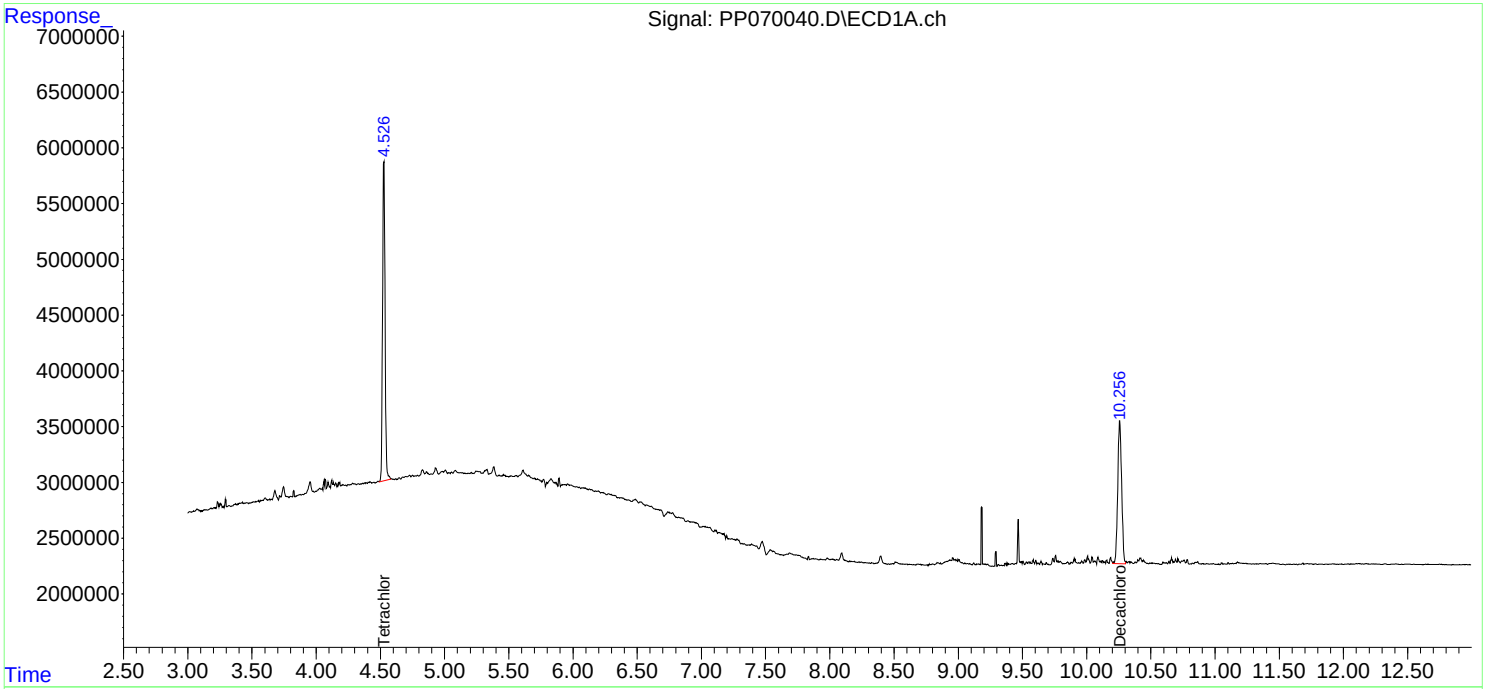
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 13:44
Operator : YP\AJ
Sample : Q1415-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

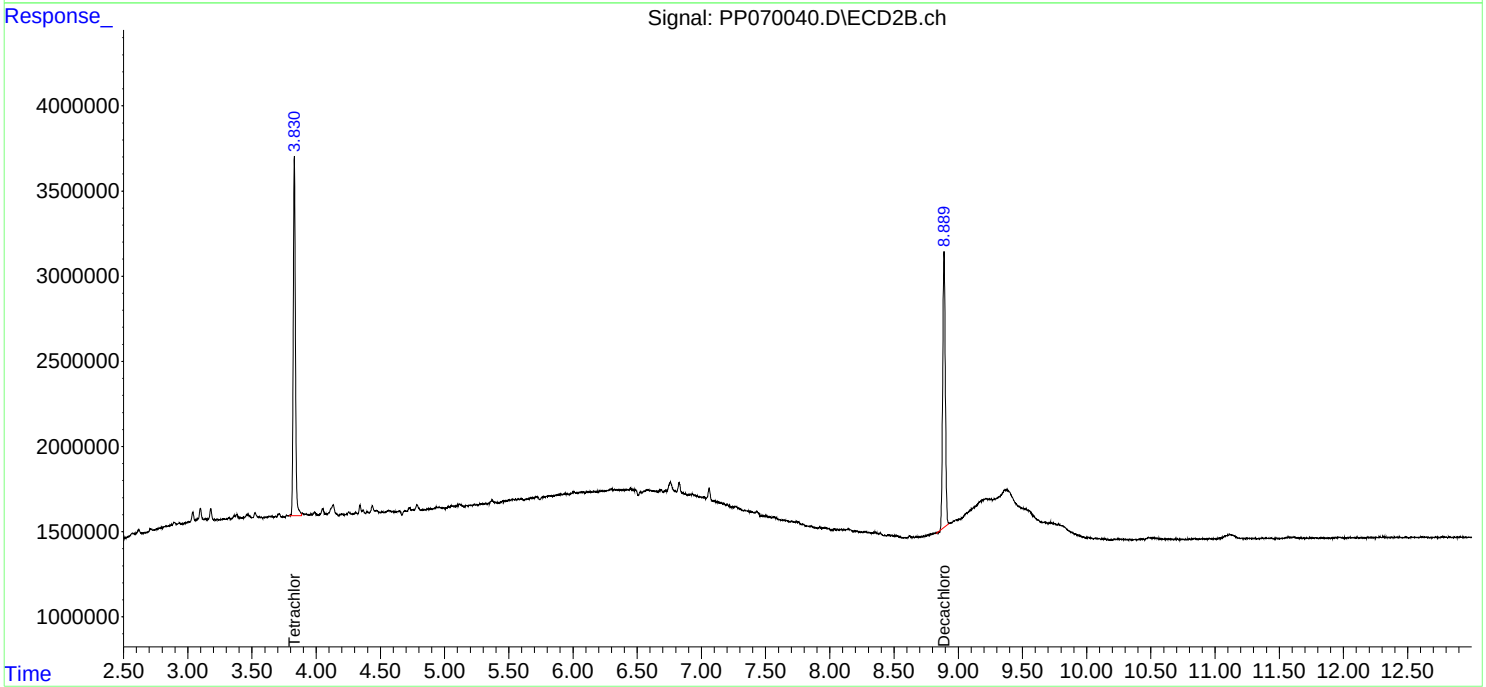
Instrument :
ECD_P
ClientSampleId :
B-172-SB02

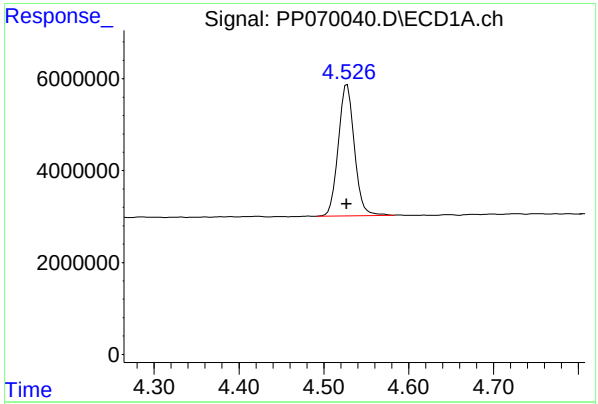
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:53:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







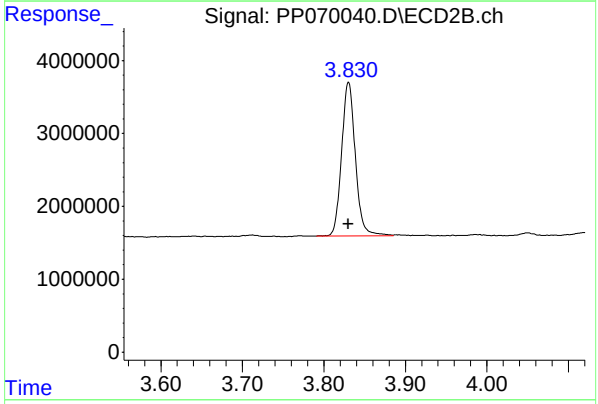
#1 Tetrachloro-m-xylene

R.T.: 4.528 min
Delta R.T.: 0.000 min
Response: 37679784
Conc: 25.67 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-172-SB02

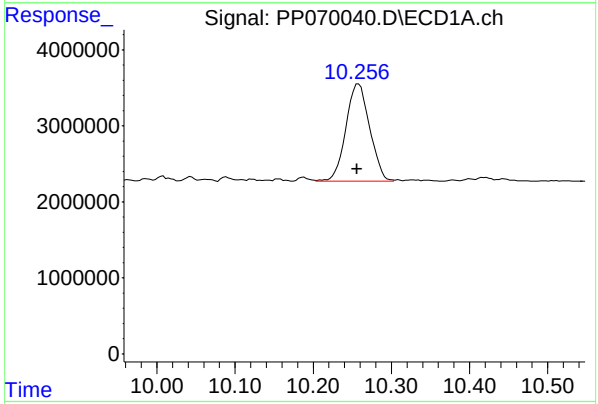
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025



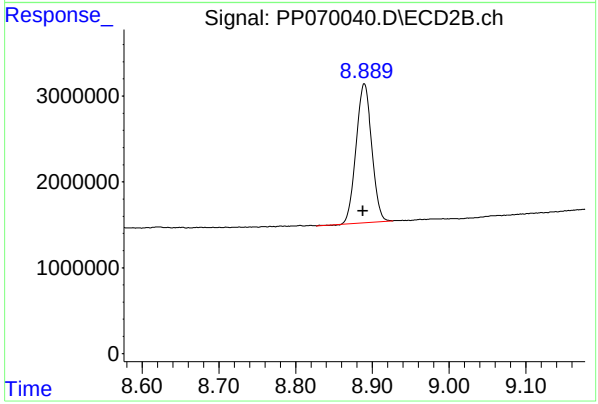
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 24769299
Conc: 25.91 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.256 min
Delta R.T.: 0.000 min
Response: 27067998
Conc: 23.76 ng/ml m



#2 Decachlorobiphenyl

R.T.: 8.889 min
Delta R.T.: 0.001 min
Response: 23089432
Conc: 21.30 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070055.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 18:10
Operator : YP\AJ
Sample : Q1415-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
FB02222025

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:01:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.528	3.831	30177739	18686755	20.562	19.546m
2)	SA Decachlor...	10.257	8.888	18435574	16929392	16.185	15.616
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

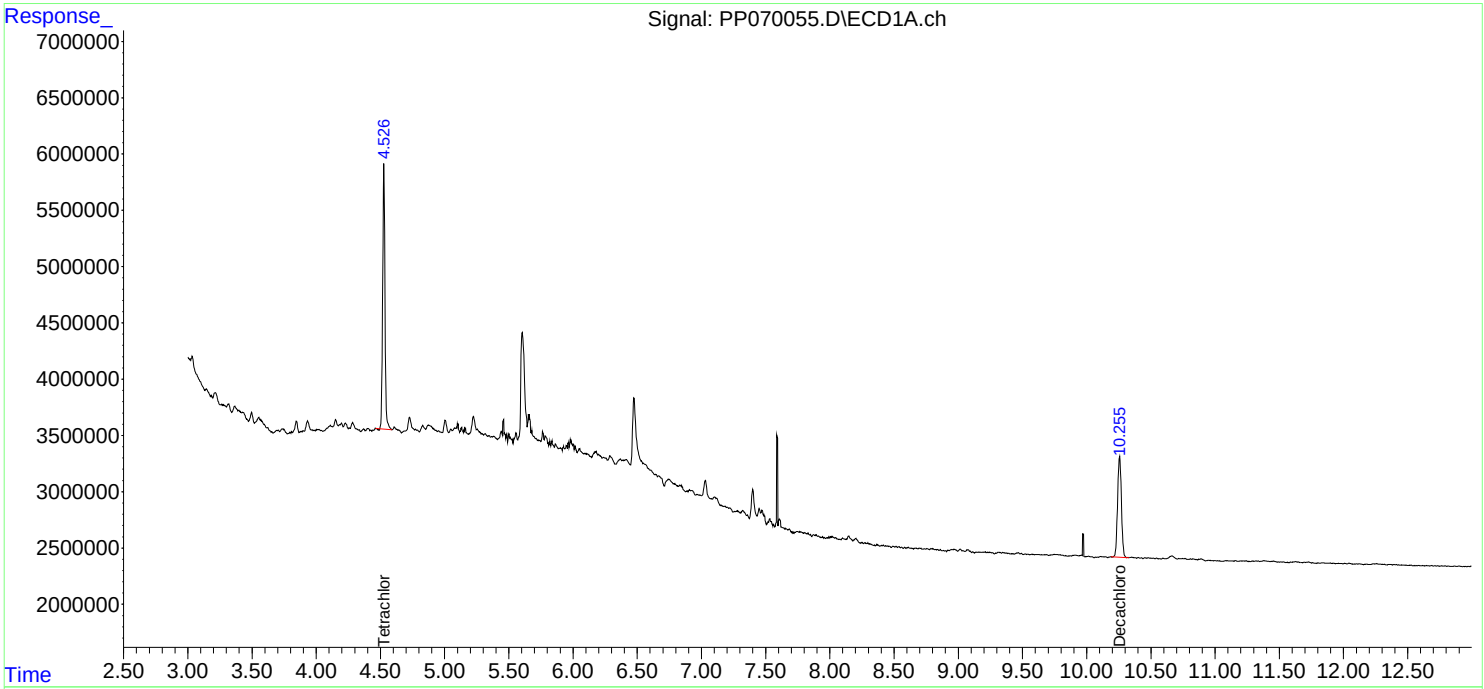
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070055.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 18:10
Operator : YP\AJ
Sample : Q1415-05
Misc :
ALS Vial : 25 Sample Multiplier: 1

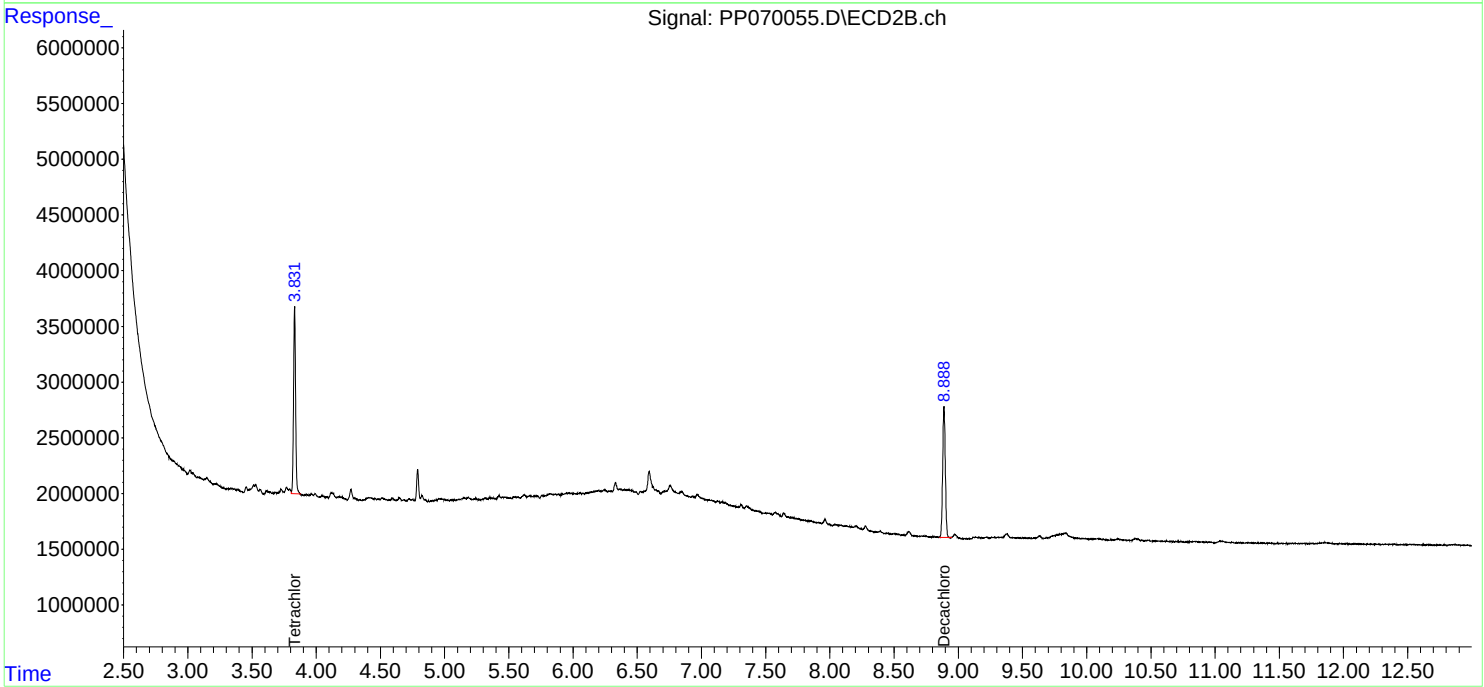
Instrument :
ECD_P
ClientSampleId :
FB02222025

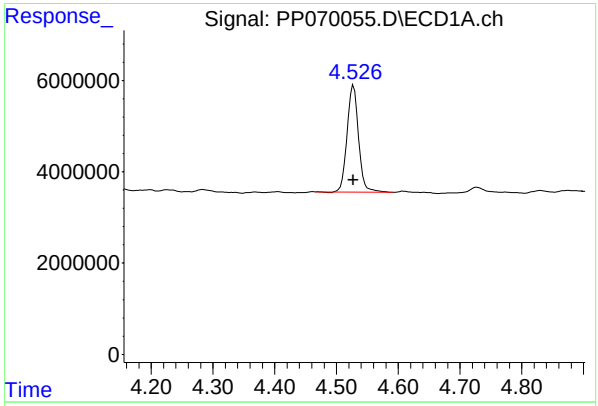
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:01:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







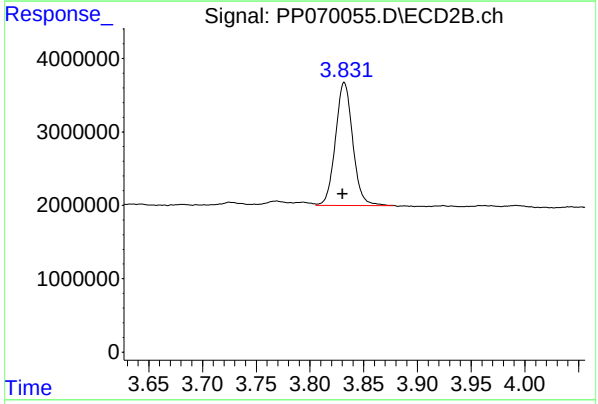
#1 Tetrachloro-m-xylene

R.T.: 4.528 min
Delta R.T.: 0.000 mi
Response: 30177739
Conc: 20.56 ng/m

Instrument :
ECD_P
ClientSampleId :
FB02222025

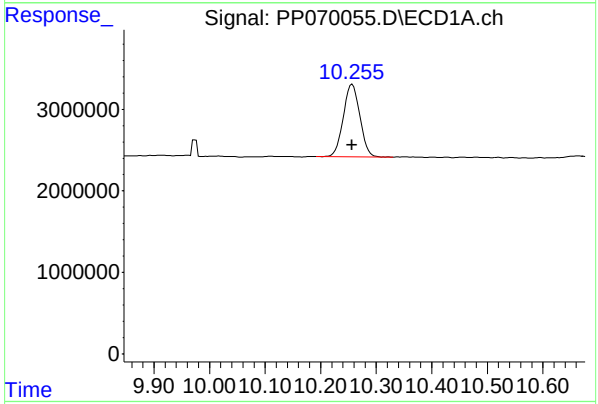
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025



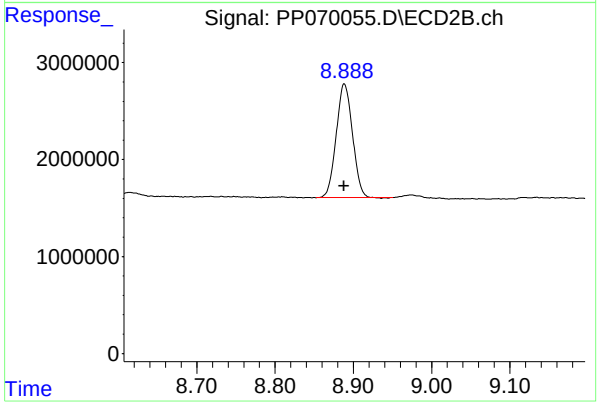
#1 Tetrachloro-m-xylene

R.T.: 3.831 min
Delta R.T.: 0.001 min
Response: 18686755
Conc: 19.55 ng/ml m



#2 Decachlorobiphenyl

R.T.: 10.257 min
Delta R.T.: 0.000 min
Response: 18435574
Conc: 16.19 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.888 min
Delta R.T.: 0.000 min
Response: 16929392
Conc: 15.62 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 18:26
Operator : YP\AJ
Sample : Q1415-06
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-173-GW01

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:02:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.525	3.830	35076419	22457499	23.900m	23.490m
2)	SA Decachlor...	10.255	8.888	17970772	19016497	15.777	17.541
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

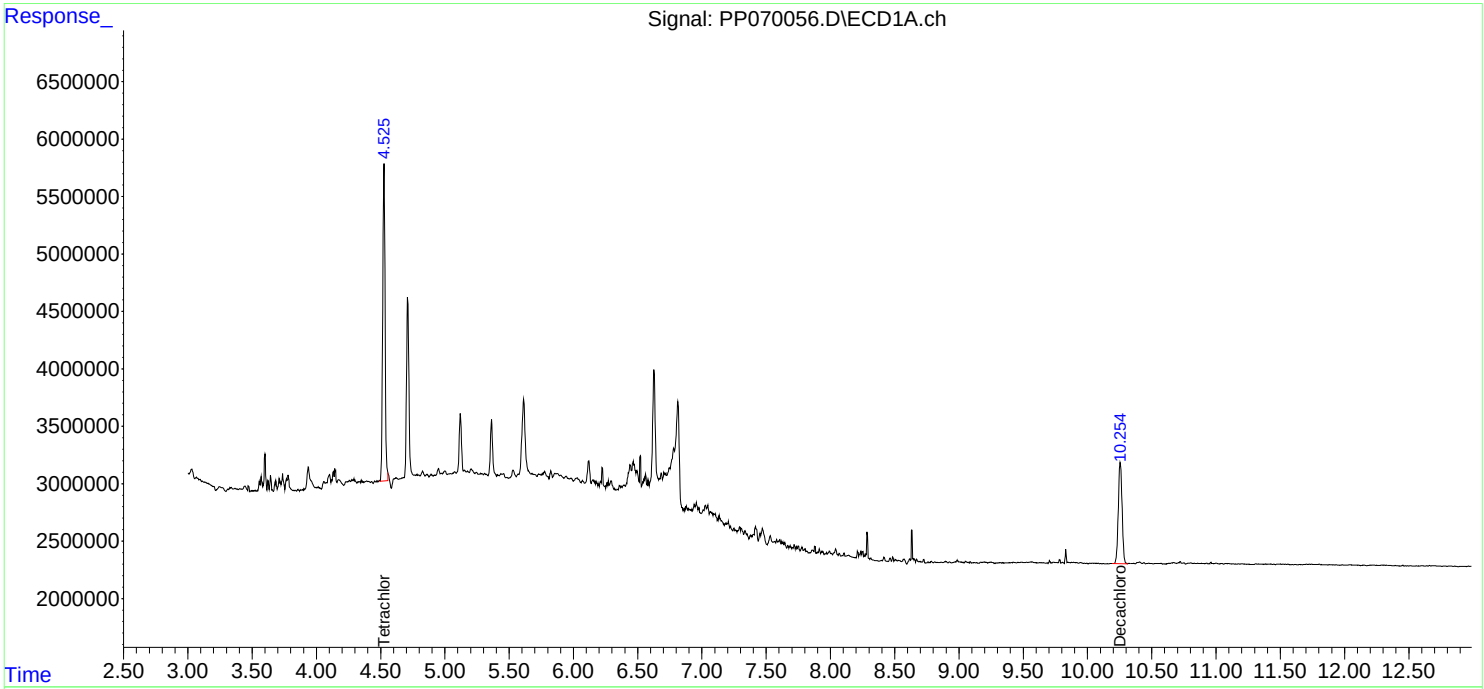
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 18:26
Operator : YP\AJ
Sample : Q1415-06
Misc :
ALS Vial : 26 Sample Multiplier: 1

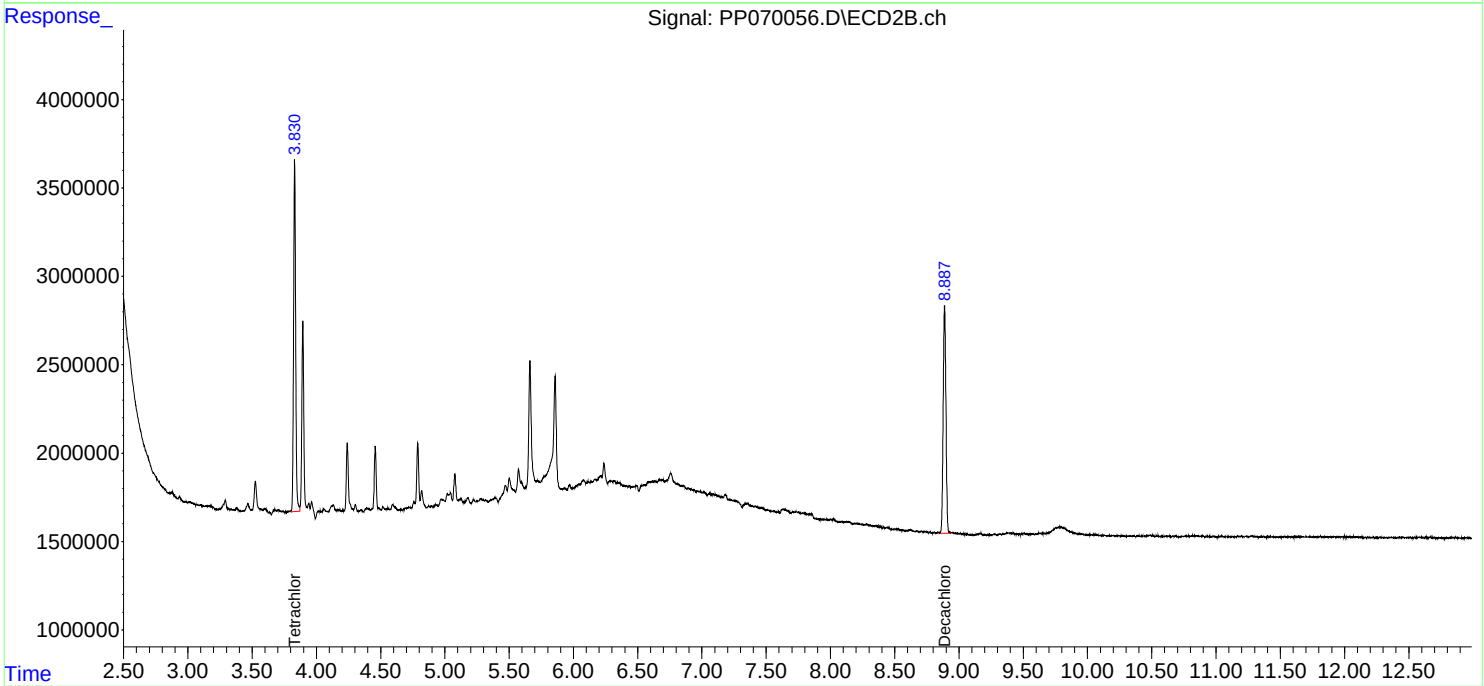
Instrument :
ECD_P
ClientSampleId :
B-173-GW01

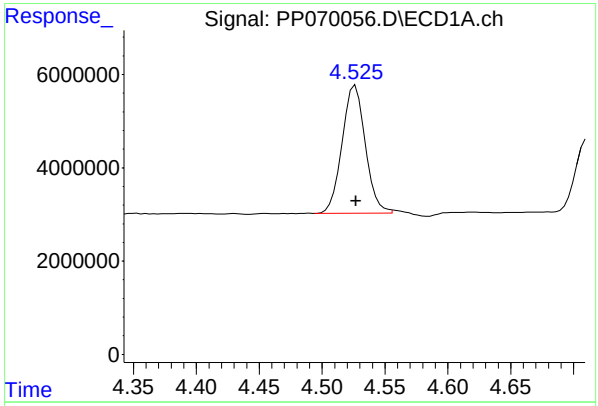
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:02:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm







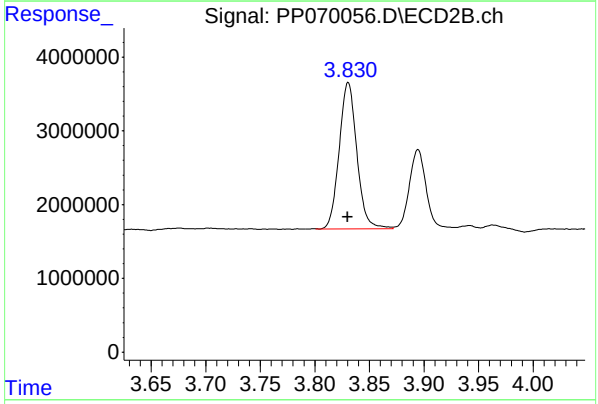
#1 Tetrachloro-m-xylene

R.T.: 4.525 min
Delta R.T.: -0.002 min
Response: 35076419
Conc: 23.90 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-173-GW01

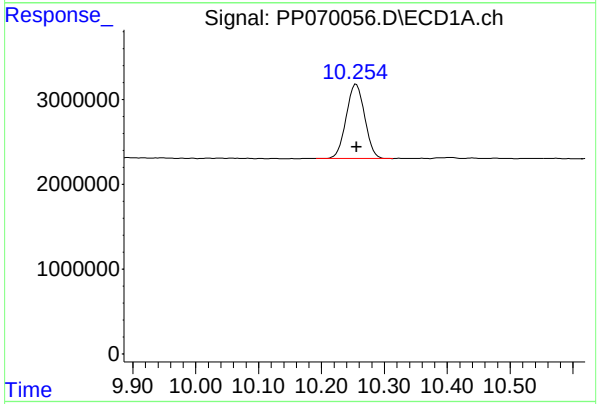
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025



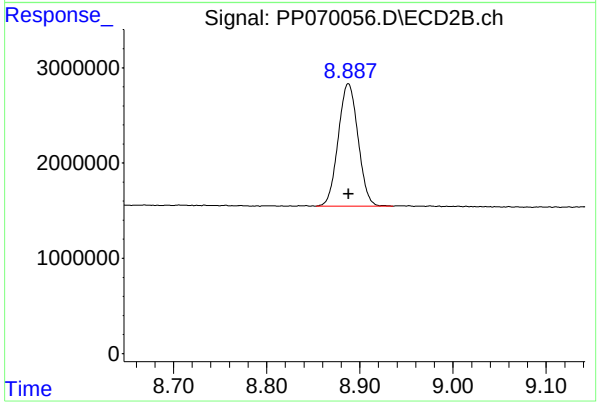
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 22457499
Conc: 23.49 ng/ml m



#2 Decachlorobiphenyl

R.T.: 10.255 min
Delta R.T.: 0.000 min
Response: 17970772
Conc: 15.78 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.888 min
Delta R.T.: 0.000 min
Response: 19016497
Conc: 17.54 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 12:23
Operator : YP\AJ
Sample : PB166854BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166854BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:49:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.540	3.835	35068513	23032905	23.895	24.092
2)	SA Decachlor...	10.280	8.900	27689252	25046473	24.309	23.103
	Target Compounds						

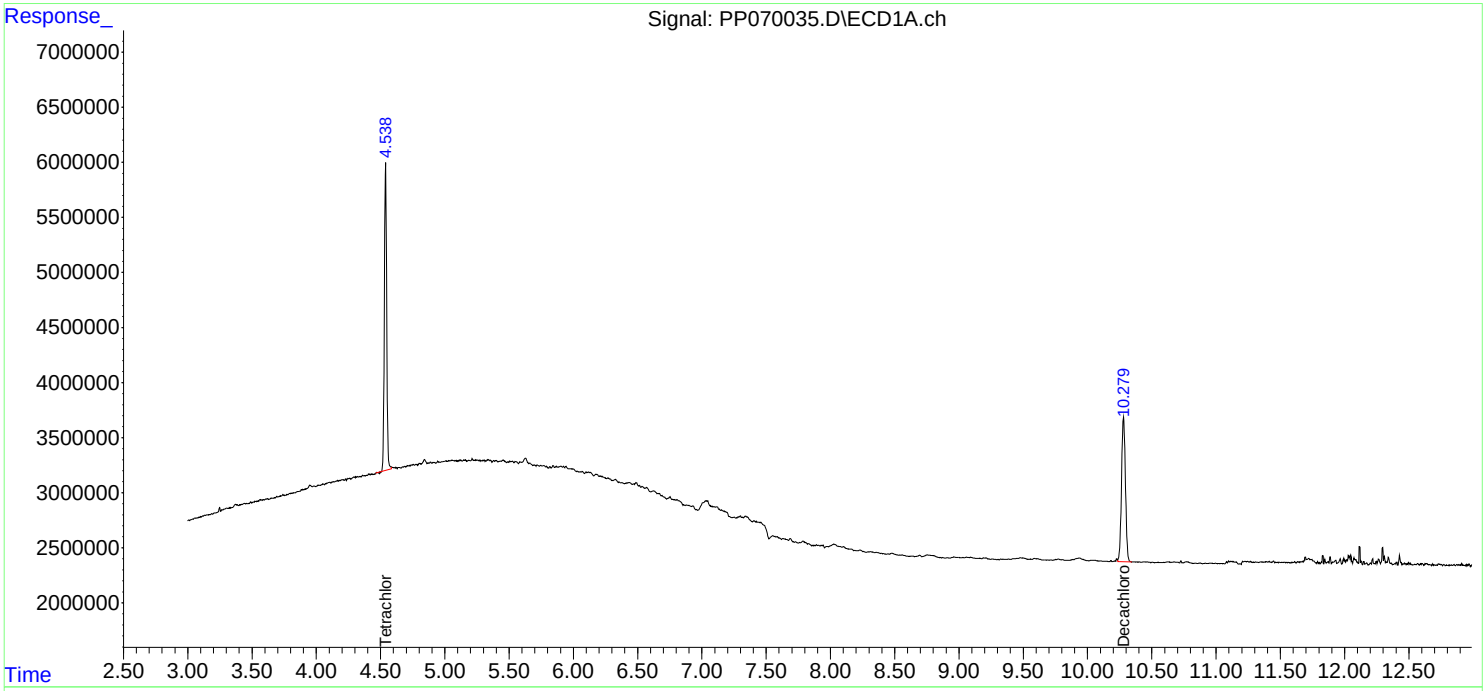
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

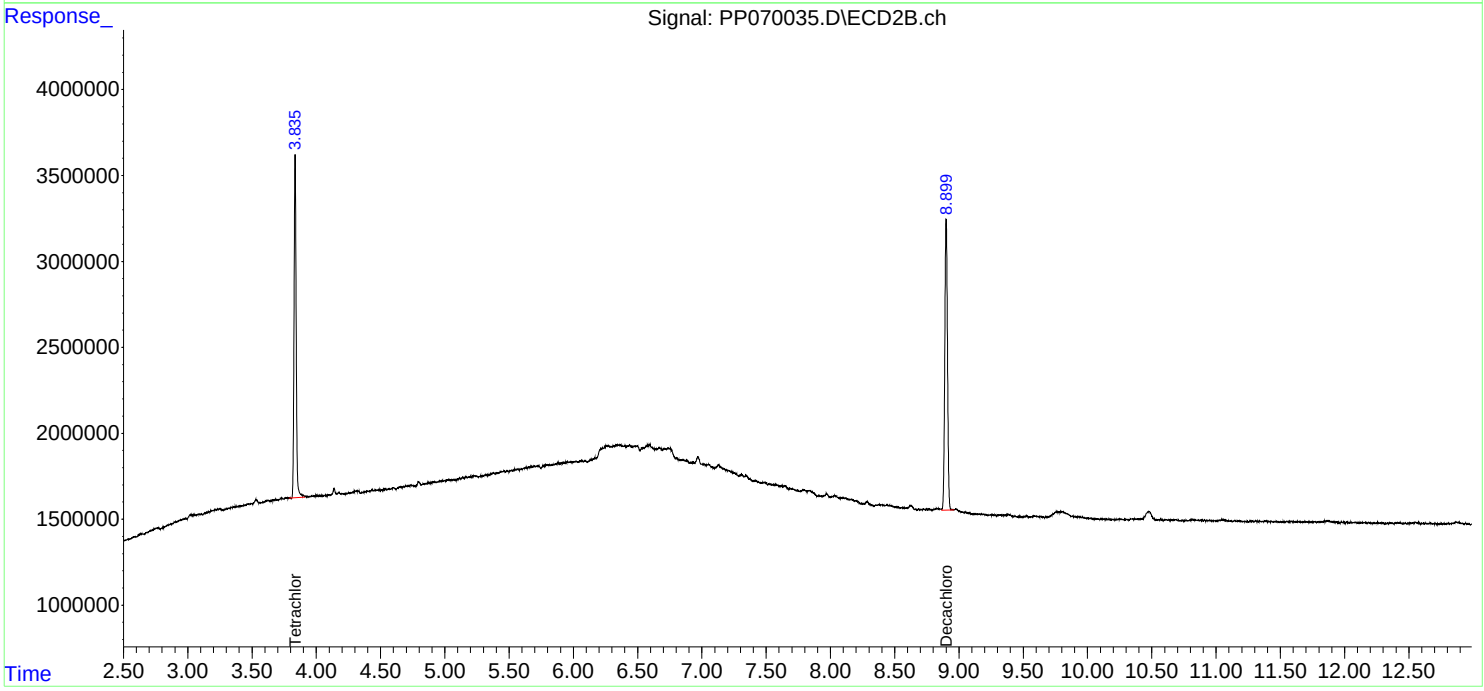
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 12:23
Operator : YP\AJ
Sample : PB166854BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

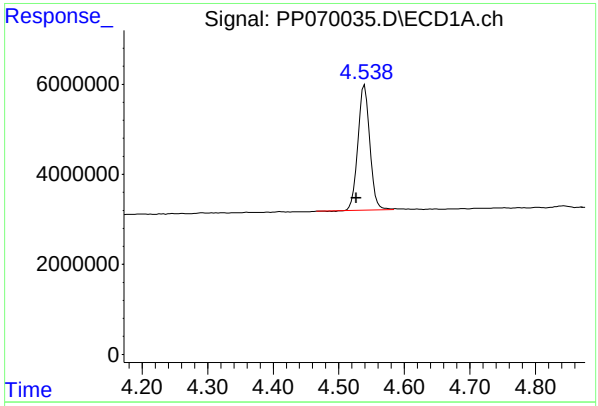
Instrument :
ECD_P
ClientSampleId :
PB166854BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:49:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



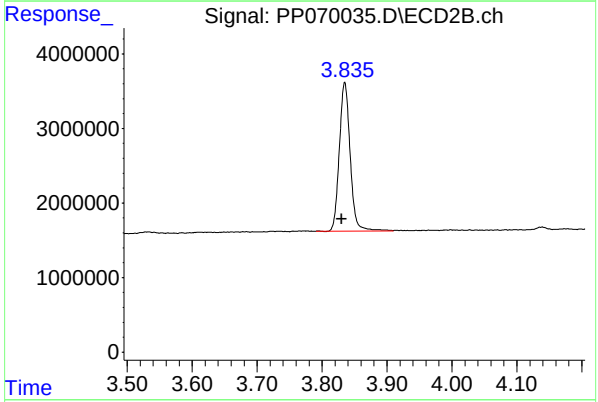




#1 Tetrachloro-m-xylene

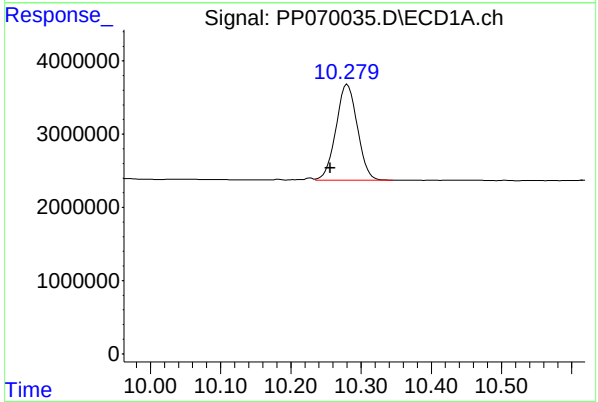
R.T.: 4.540 min
Delta R.T.: 0.013 min
Response: 35068513
Conc: 23.89 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB166854BL



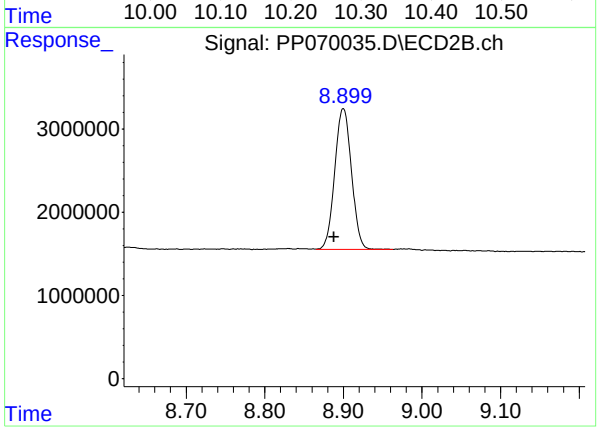
#1 Tetrachloro-m-xylene

R.T.: 3.835 min
Delta R.T.: 0.005 min
Response: 23032905
Conc: 24.09 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.280 min
Delta R.T.: 0.024 min
Response: 27689252
Conc: 24.31 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.900 min
Delta R.T.: 0.012 min
Response: 25046473
Conc: 23.10 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 17:21
Operator : YP\AJ
Sample : PB166856BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166856BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:00:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.526	3.830	36392036	23178304	24.797	24.244
2)	SA Decachlor...	10.255	8.889	27565132	27692606	24.200	25.544
	Target Compounds						

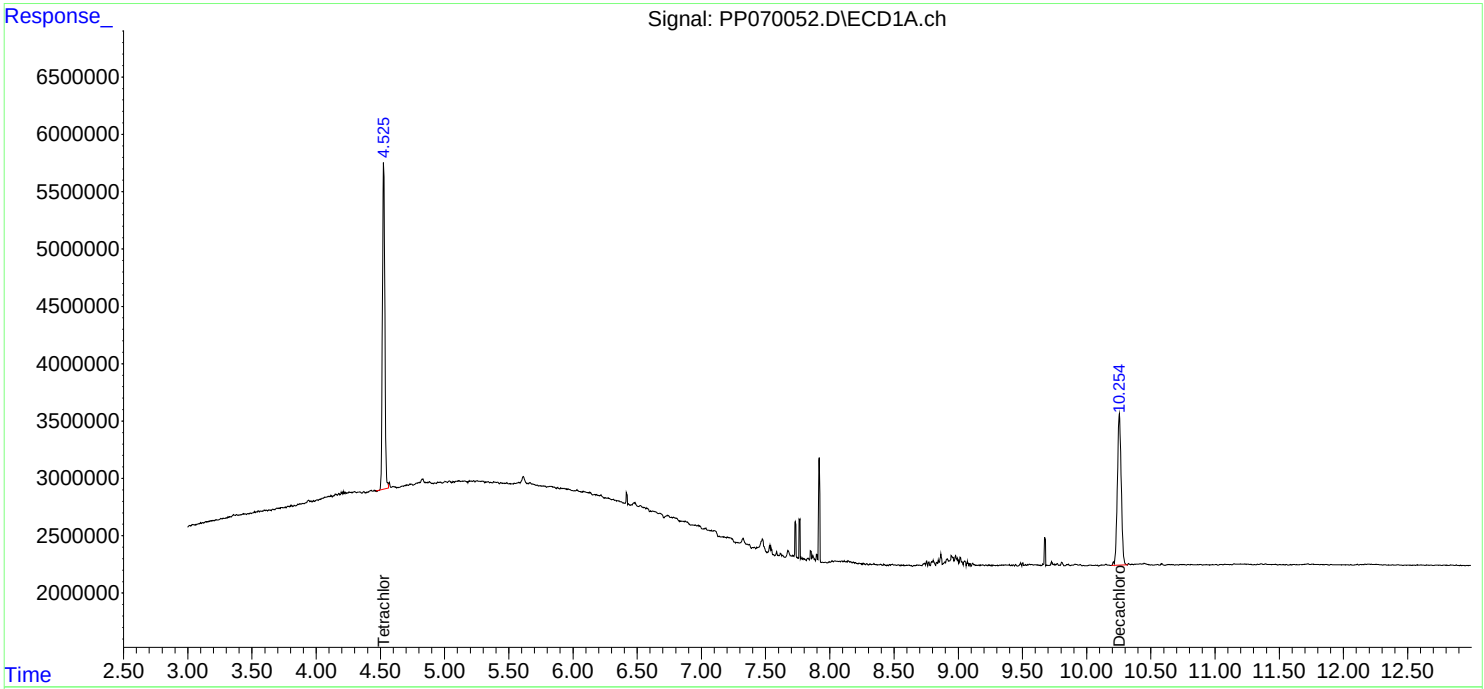
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

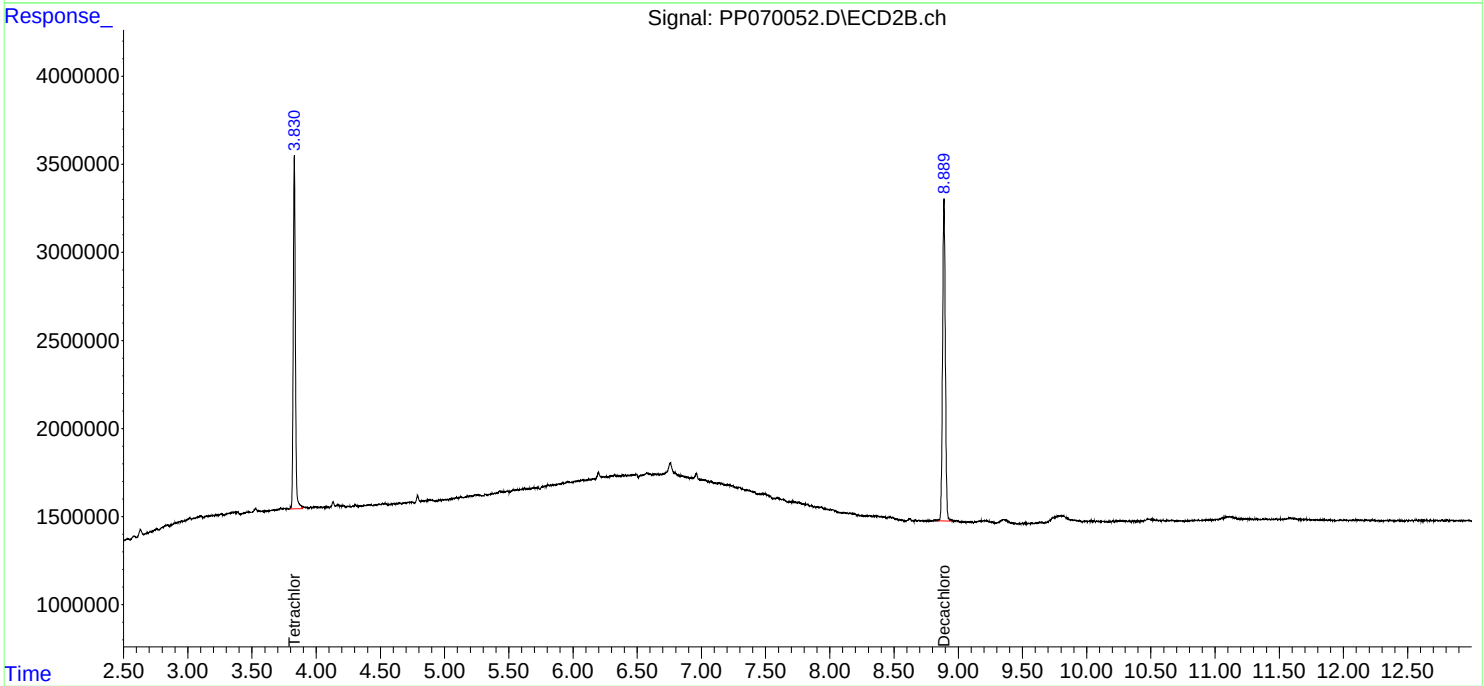
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 17:21
Operator : YP\AJ
Sample : PB166856BL
Misc :
ALS Vial : 22 Sample Multiplier: 1

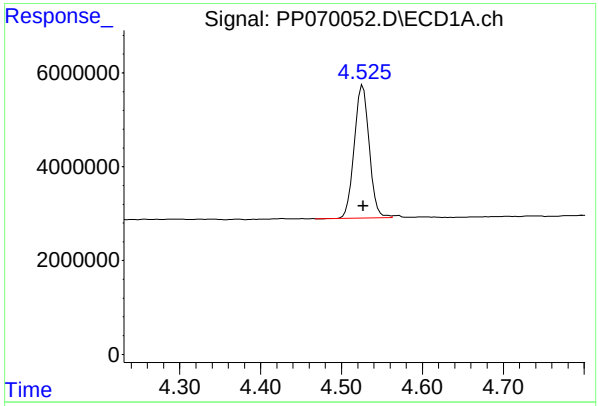
Instrument :
ECD_P
ClientSampleId :
PB166856BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:00:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



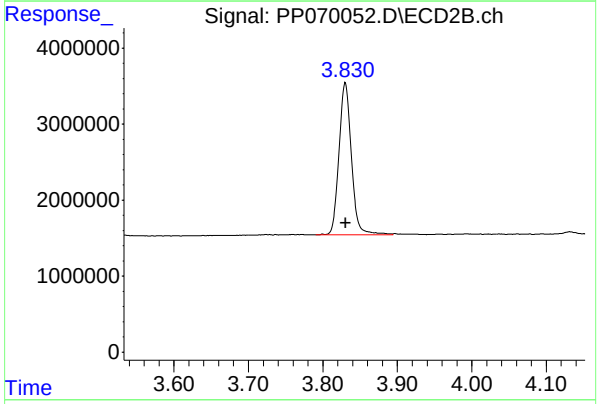




#1 Tetrachloro-m-xylene

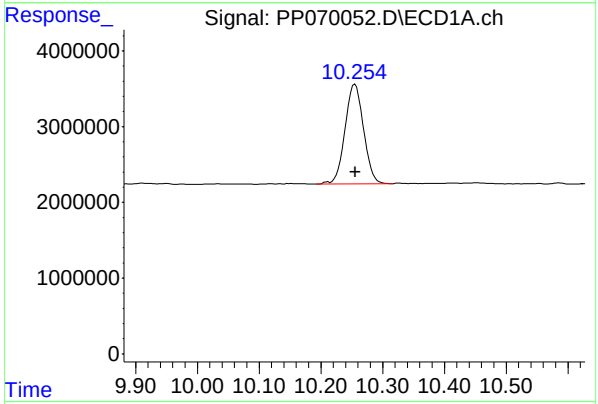
R.T.: 4.526 min
Delta R.T.: 0.000 min
Response: 36392036
Conc: 24.80 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB166856BL



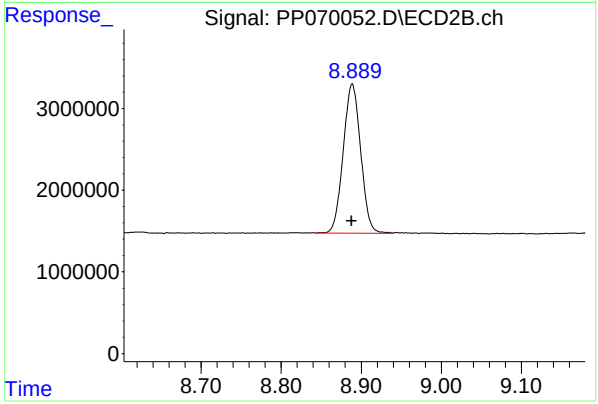
#1 Tetrachloro-m-xylene

R.T.: 3.830 min
Delta R.T.: 0.000 min
Response: 23178304
Conc: 24.24 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.255 min
Delta R.T.: 0.000 min
Response: 27565132
Conc: 24.20 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.889 min
Delta R.T.: 0.000 min
Response: 27692606
Conc: 25.54 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 12:39
Operator : YP\AJ
Sample : PB166854BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166854BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:50:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.529	3.831	38142129	23821205	25.989	24.917
2)	SA Decachlor...	10.262	8.891	28990685	26736363	25.452	24.662
	Target Compounds						
3)	L1 AR-1016-1	5.683	4.921	24118849	16468308	484.060	493.084
4)	L1 AR-1016-2	5.704	4.940	36047503	23037554	509.304	494.429
5)	L1 AR-1016-3	5.767	5.118	21438073	12776723	488.089	510.407
6)	L1 AR-1016-4	5.864	5.159	18080055	9974516	498.604	496.969
7)	L1 AR-1016-5	6.158	5.375	16287586	12773347	485.638	492.295
31)	L7 AR-1260-1	7.277	6.412	30327386	24992641	519.661	504.502
32)	L7 AR-1260-2	7.531	6.600	40507759	32784692	495.658	501.141
33)	L7 AR-1260-3	7.890	6.755	27499489	28186556	438.162	467.268
34)	L7 AR-1260-4	8.115	7.228	29219134	20656143	460.862	422.698
35)	L7 AR-1260-5	8.436	7.469	59376812	51850329	452.620	435.078

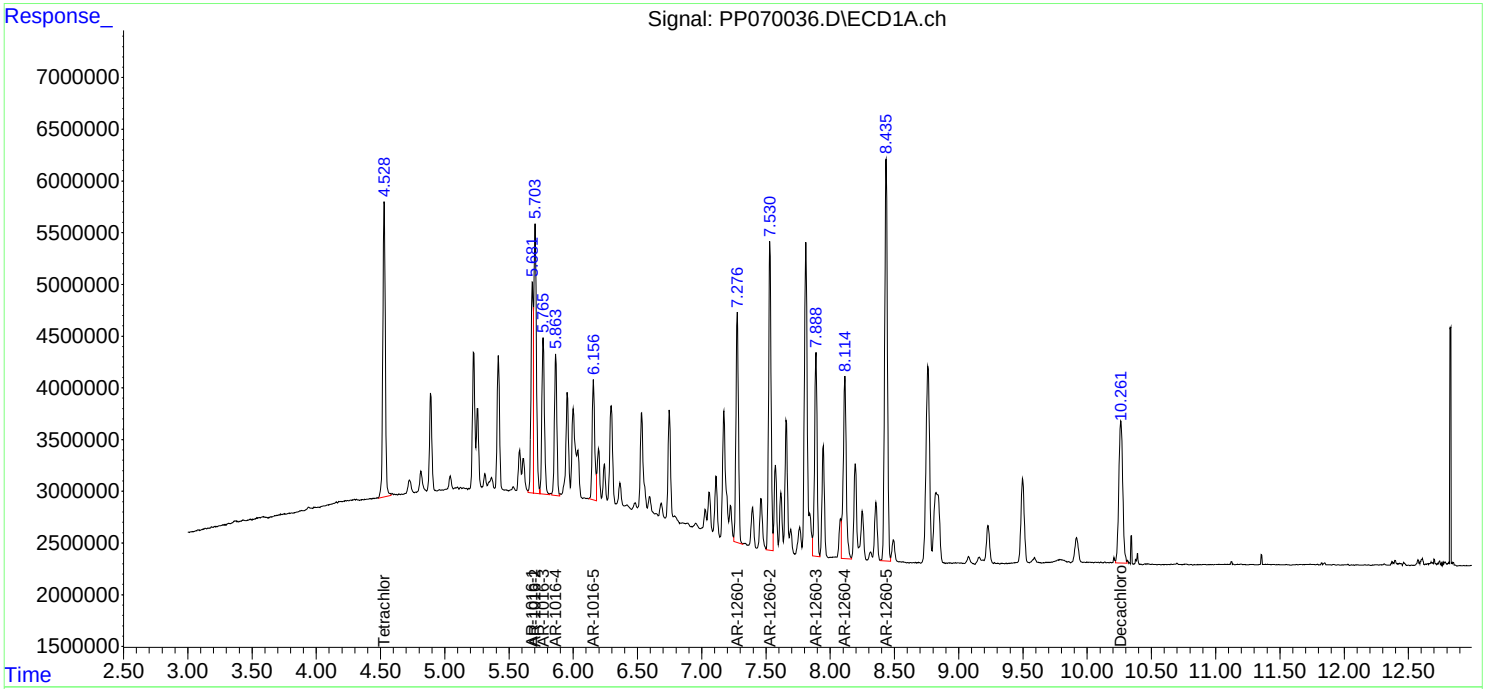
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

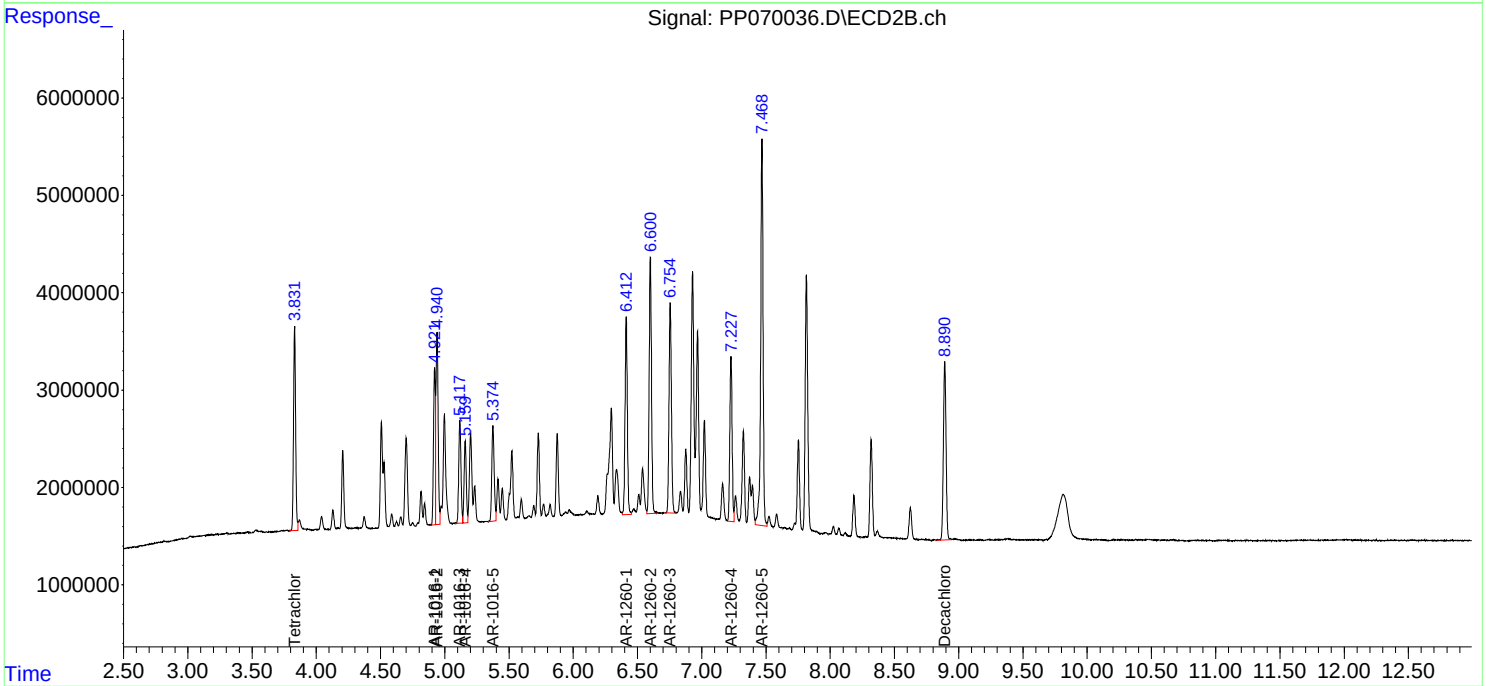
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 12:39
Operator : YP\AJ
Sample : PB166854BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166854BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:50:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 17:37
Operator : YP\AJ
Sample : PB166856BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166856BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:00:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.528	3.831	36531774	22436816	24.892	23.469m
2)	SA Decachlor...	10.258	8.889	27108778	25645228	23.800	23.656
	Target Compounds						
3)	L1 AR-1016-1	5.681	4.921	24349444	16073921	488.688	481.276
4)	L1 AR-1016-2	5.703	4.940	35606085	22331019	503.067	479.266
5)	L1 AR-1016-3	5.765	5.117	21638461	12554782	492.652	501.541
6)	L1 AR-1016-4	5.862	5.159	18061418	9799789	498.090	488.264
7)	L1 AR-1016-5	6.156	5.374	16311098	12408877	486.339	478.248
31)	L7 AR-1260-1	7.275	6.412	28876368	24424563	494.797	493.034
32)	L7 AR-1260-2	7.529	6.600	39373230	32118638	481.775	490.960
33)	L7 AR-1260-3	7.888	6.754	26466901	28177129	421.709	467.111
34)	L7 AR-1260-4	8.113	7.227	28310061	20778443	446.524	425.201
35)	L7 AR-1260-5	8.434	7.468	58155960	52221774	443.314	438.195

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

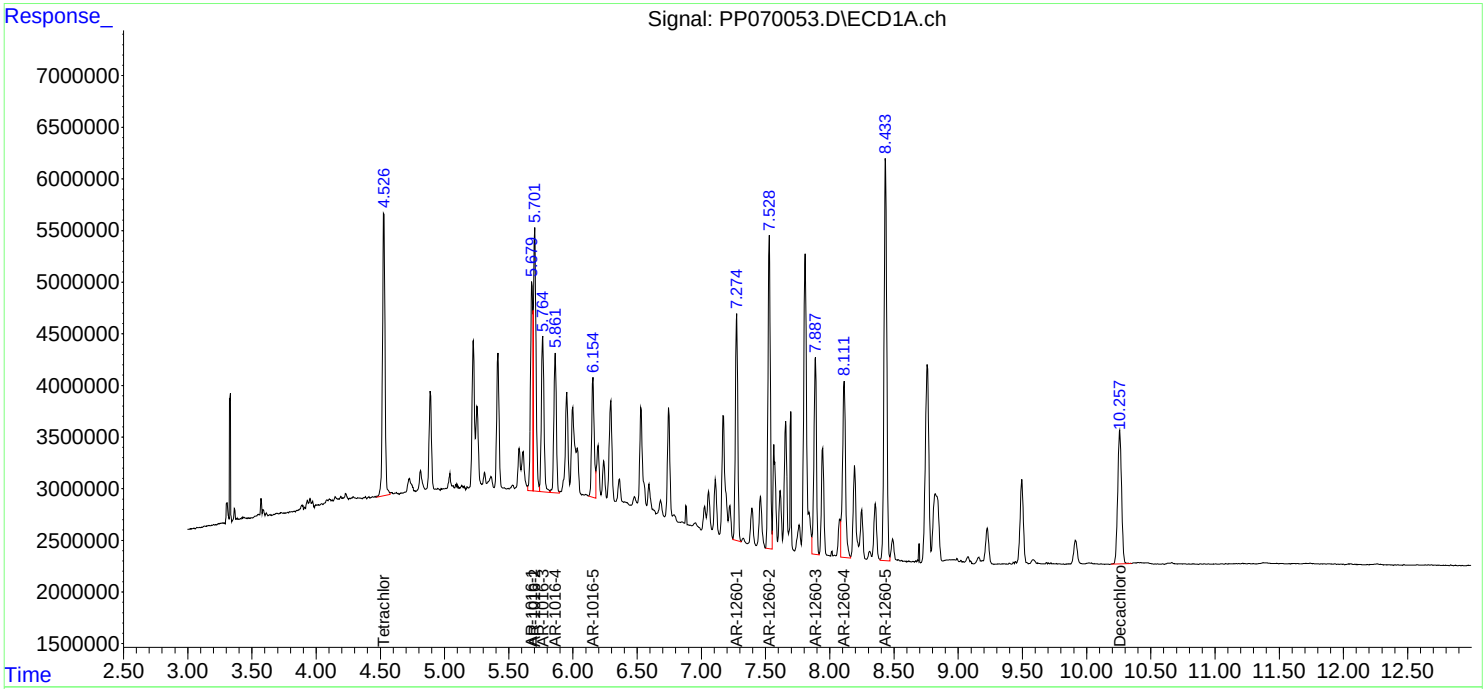
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 17:37
Operator : YP\AJ
Sample : PB166856BS
Misc :
ALS Vial : 23 Sample Multiplier: 1

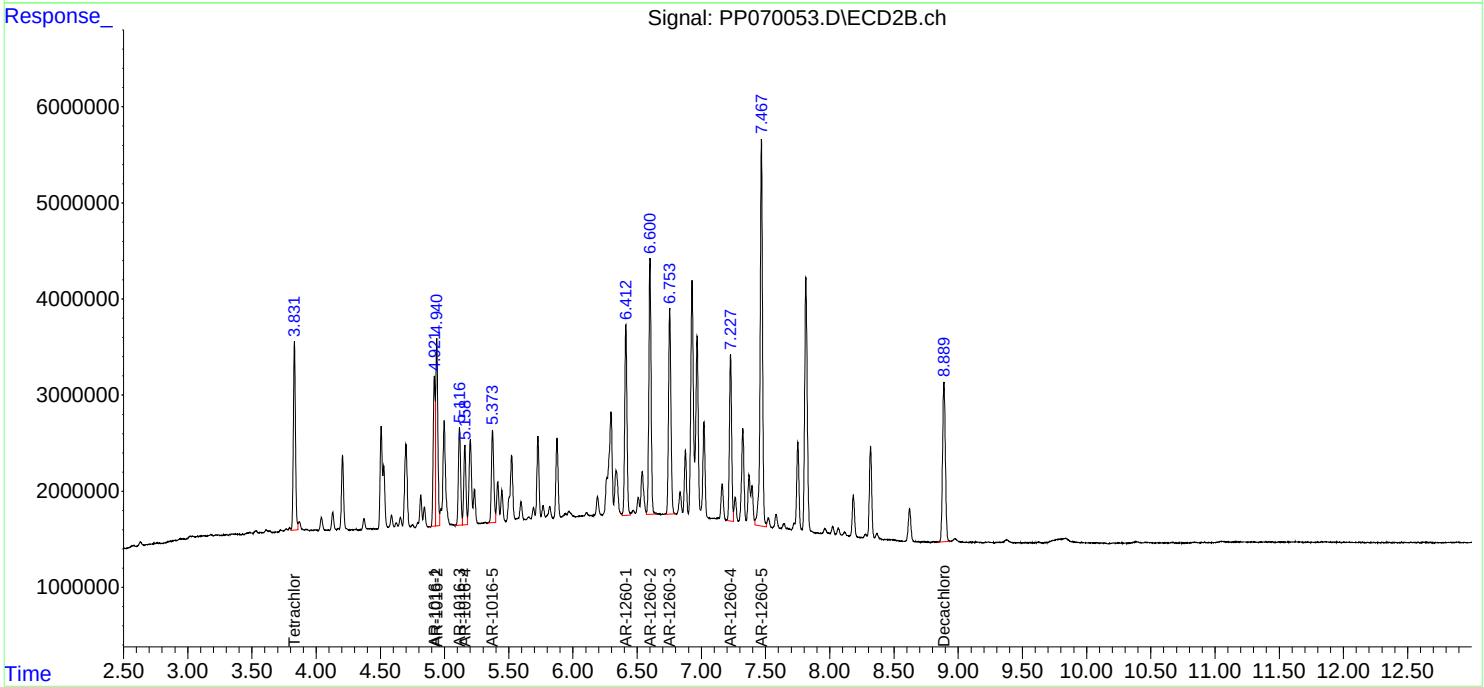
Instrument :
ECD_P
ClientSampleId :
PB166856BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:00:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 17:53
Operator : YP\AJ
Sample : PB166856BSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166856BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:01:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.525	3.832	37013020	23449337	25.220	24.528
2)	SA Decachlor...	10.255	8.889	27364857	27002496	24.025	24.908
	Target Compounds						
3)	L1 AR-1016-1	5.678	4.922	24658996	16561040	494.901	495.861
4)	L1 AR-1016-2	5.700	4.941	35639967	23001252	503.546	493.650
5)	L1 AR-1016-3	5.762	5.118	21823979	12750175	496.875	509.347
6)	L1 AR-1016-4	5.860	5.159	18160796	9936303	500.830	495.065
7)	L1 AR-1016-5	6.153	5.375	16053626	12747122	478.662	491.284
31)	L7 AR-1260-1	7.273	6.413	30942370	24631771	530.198	497.217
32)	L7 AR-1260-2	7.526	6.601	39977328	31955549	489.167	488.467
33)	L7 AR-1260-3	7.885	6.755	27737901	27931154	441.960	463.034
34)	L7 AR-1260-4	8.109	7.227	28989278	20190105	457.237	413.161
35)	L7 AR-1260-5	8.430	7.468	58388052	51113961	445.083	428.899

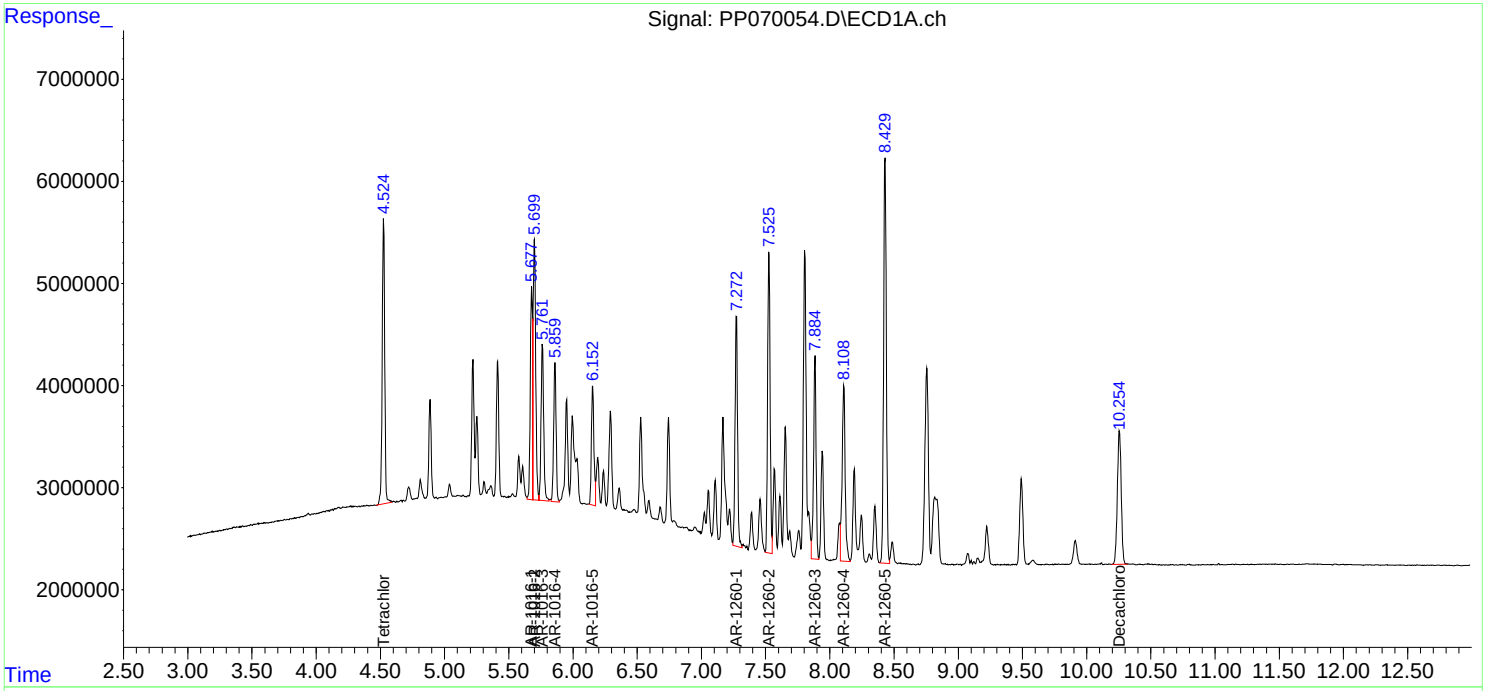
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

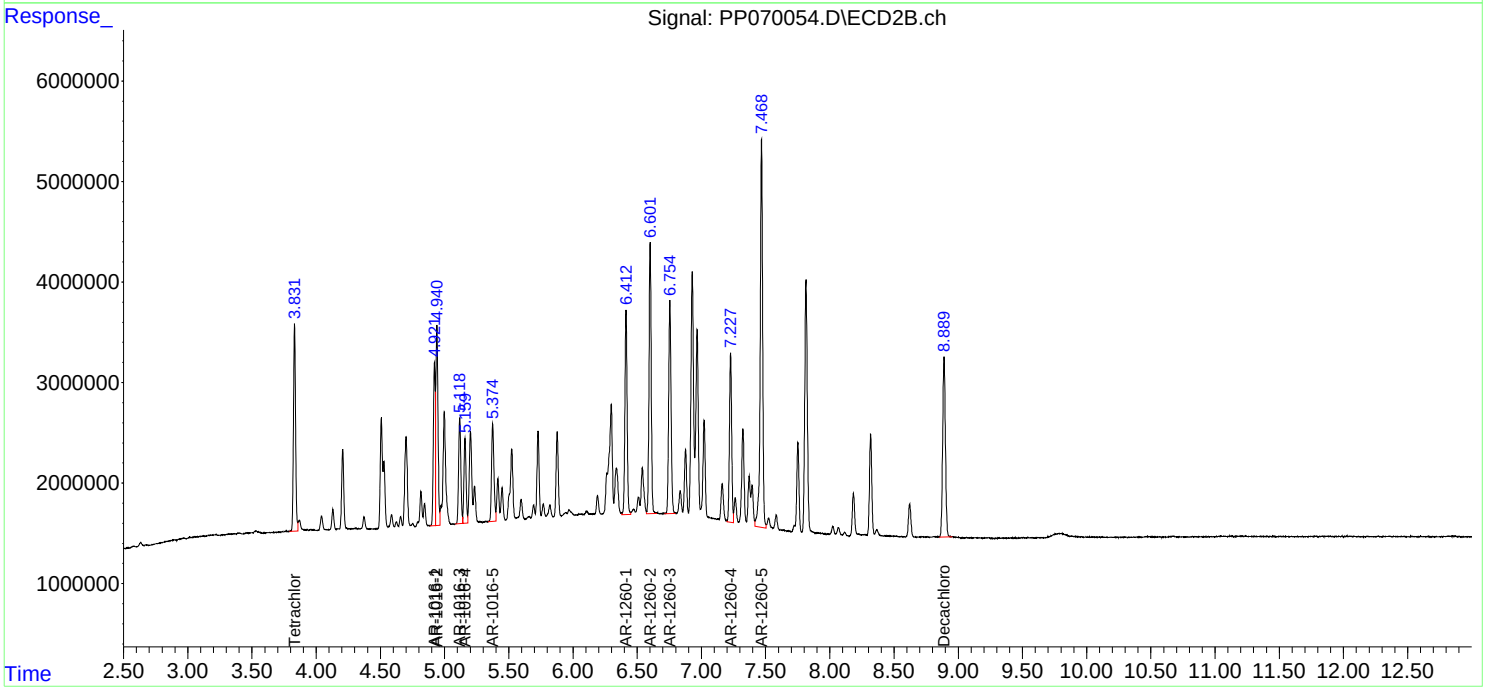
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 17:53
Operator : YP\AJ
Sample : PB166856BSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB166856BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 04:01:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 16:16
Operator : YP\AJ
Sample : Q1421-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:57:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.527	3.831	41118620	26255730	28.017	27.463
2)	SA Decachlor...	10.256	8.890	29124347	27359460	25.569	25.237
	Target Compounds						
3)	L1 AR-1016-1	5.680	4.921	25444668	17308608	510.669	518.244
4)	L1 AR-1016-2	5.702	4.940	37323167	24008369	527.328	515.265
5)	L1 AR-1016-3	5.764	5.117	22303119	13313768	507.784	531.861
6)	L1 AR-1016-4	5.861	5.158	18815294	10396878	518.880	518.013
7)	L1 AR-1016-5	6.155	5.374	16692375	13316689	497.707	513.236
31)	L7 AR-1260-1	7.274	6.412	30668524	25071207	525.506	506.088
32)	L7 AR-1260-2	7.528	6.600	38624410	32981558	472.613	504.150
33)	L7 AR-1260-3	7.887	6.754	26713212	29170770	425.634	483.584
34)	L7 AR-1260-4	8.111	7.227	29154966	21105848	459.850	431.900
35)	L7 AR-1260-5	8.432	7.468	57755994	52119644	440.265	437.338

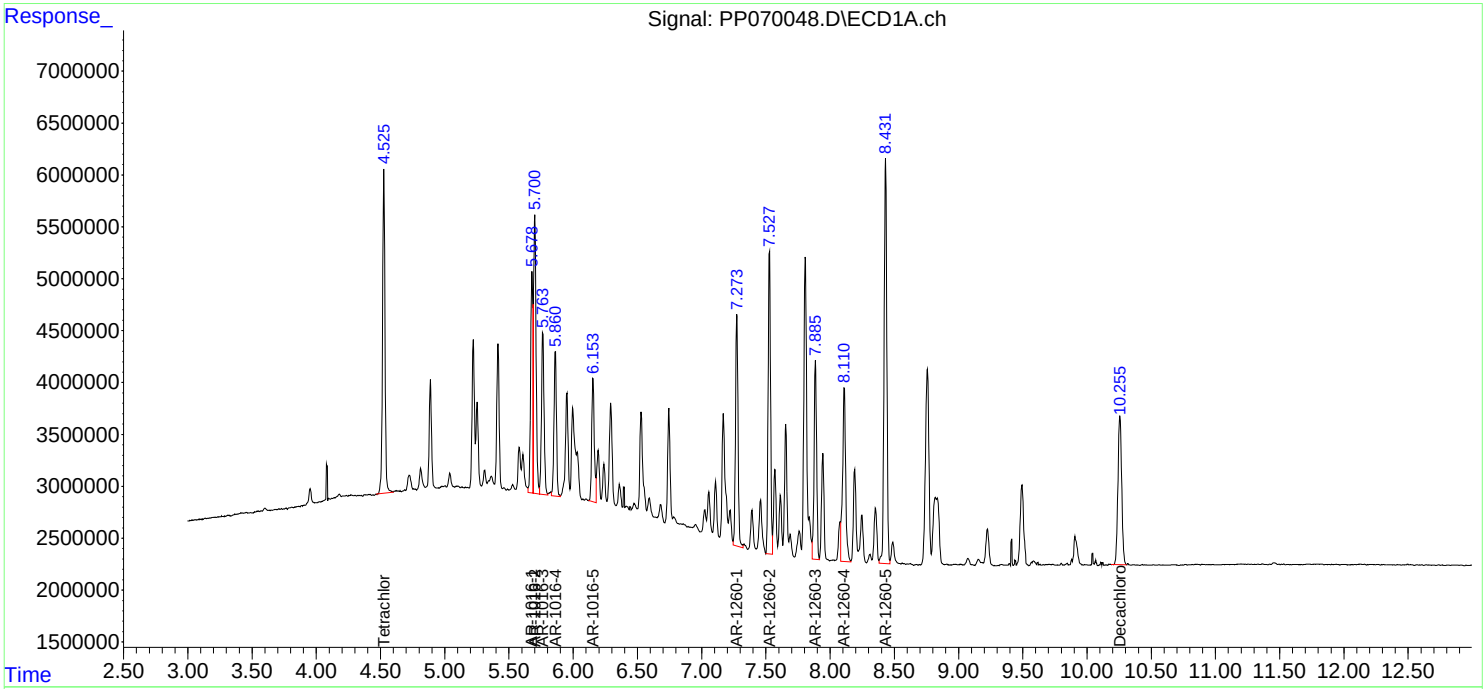
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

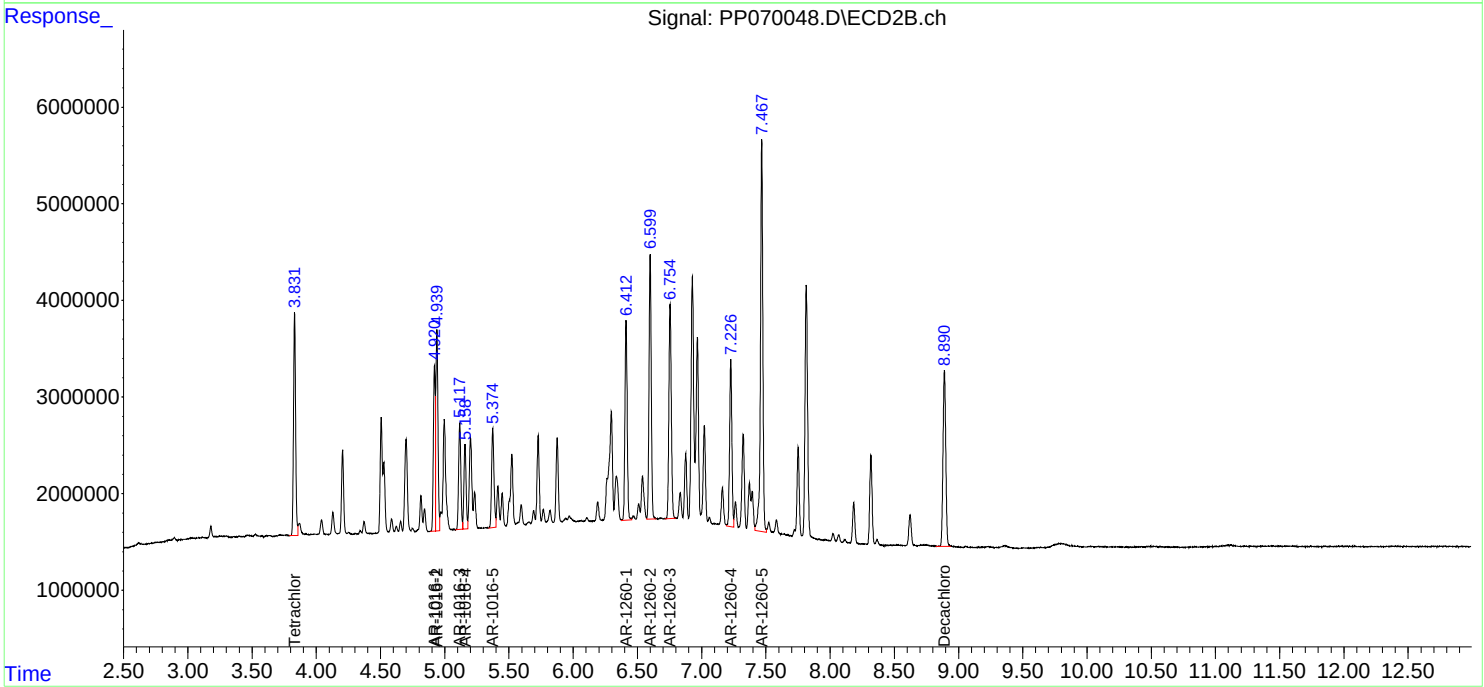
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070048.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 16:16
Operator : YP\AJ
Sample : Q1421-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:57:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 16:32
Operator : YP\AJ
Sample : Q1421-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:58:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.528	3.832	41111106	24790706	28.012	25.931
2)	SA Decachlor...	10.260	8.890	29649684	27351792	26.031	25.230
	Target Compounds						
3)	L1 AR-1016-1	5.681	4.922	26288846	16784715	527.611	502.558
4)	L1 AR-1016-2	5.703	4.941	37776807	23575883	533.737	505.983
5)	L1 AR-1016-3	5.765	5.118	22943551	12937484	522.365	516.829
6)	L1 AR-1016-4	5.862	5.159	19594322	10178288	540.364	507.122
7)	L1 AR-1016-5	6.155	5.375	16854541	12974963	502.542	500.065
31)	L7 AR-1260-1	7.274	6.413	30821485	24955539	528.127m	503.753
32)	L7 AR-1260-2	7.529	6.601	39053523	33385211	477.863	510.320
33)	L7 AR-1260-3	7.888	6.755	26756934	28701639	426.330	475.807
34)	L7 AR-1260-4	8.111	7.228	28692549	20934188	452.557m	428.388
35)	L7 AR-1260-5	8.434	7.468	58318475	55334401	444.553	464.313

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

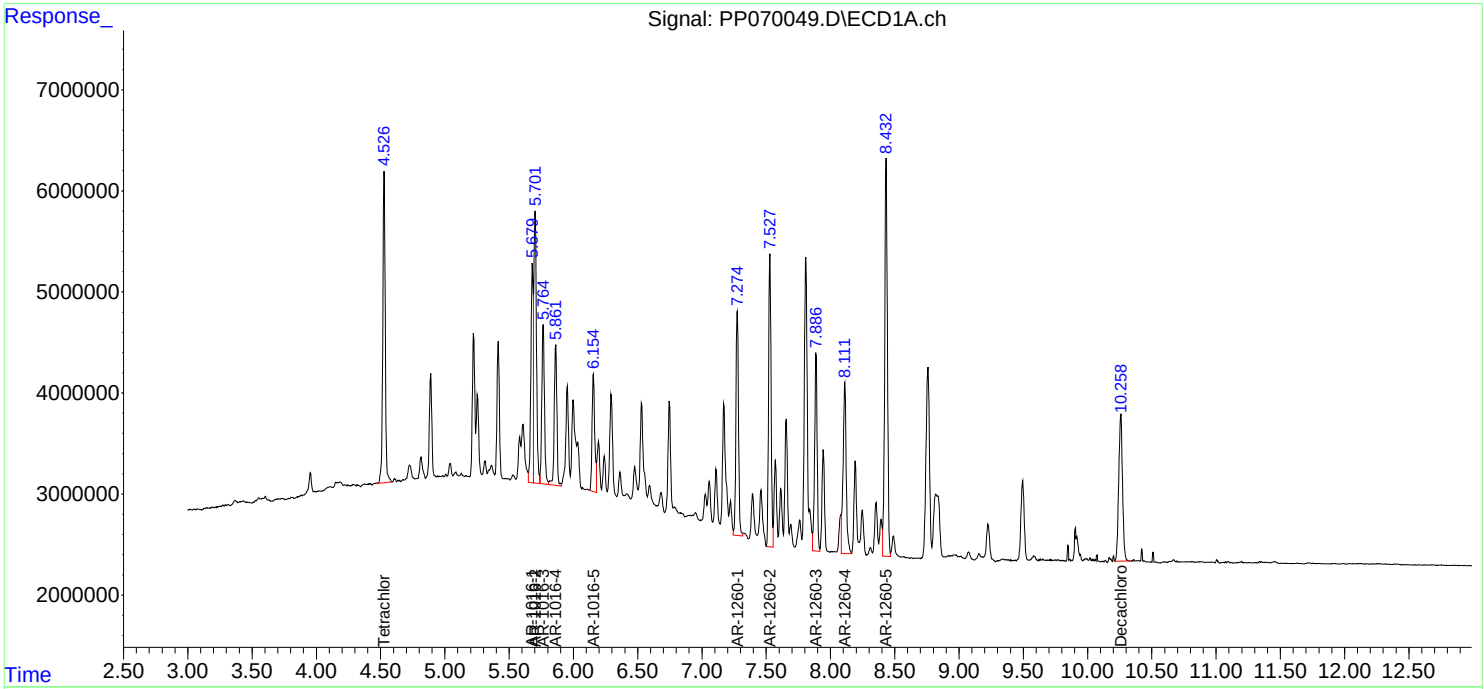
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP022525\
Data File : PP070049.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2025 16:32
Operator : YP\AJ
Sample : Q1421-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

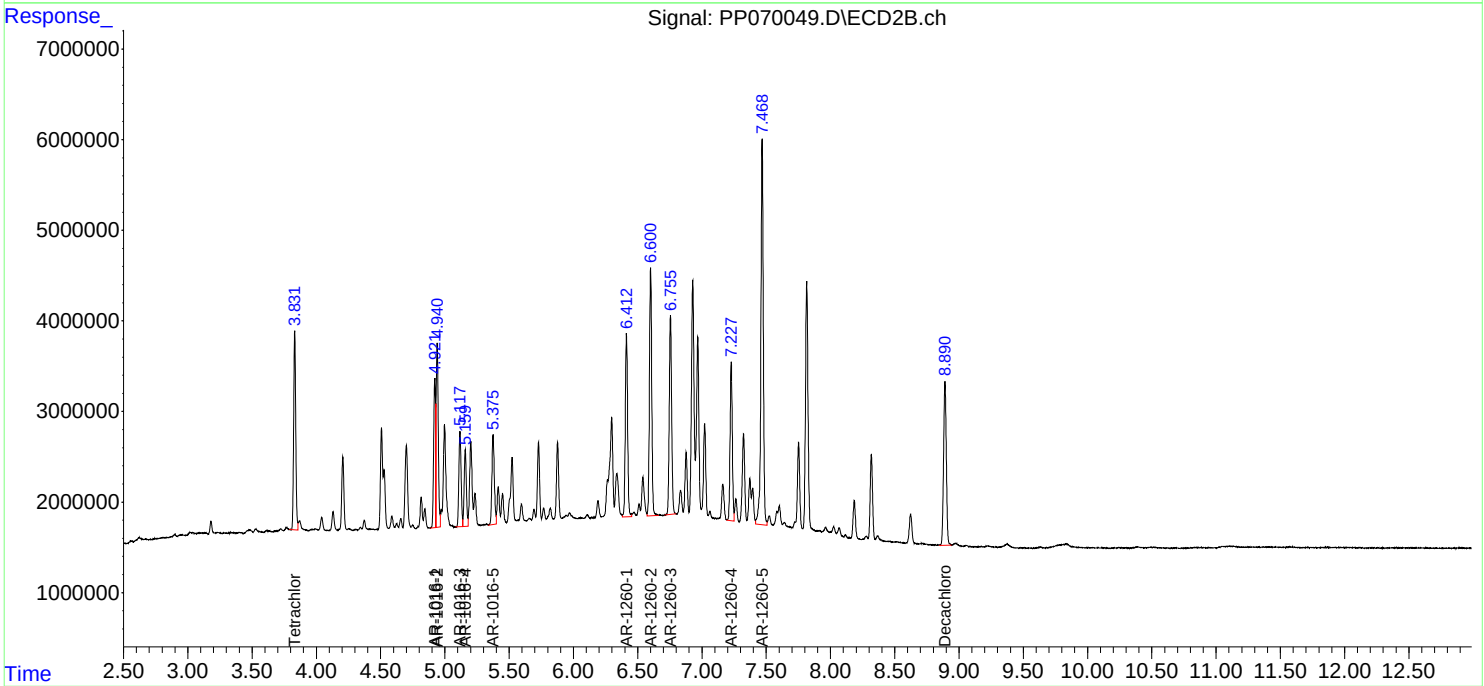
Instrument :
ECD_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 26 03:58:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP022425.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 05:10:19 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PP070000.D	AR-1016-1	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-1 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-3	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-3 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-4	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1016-5	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-1 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-2 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1660ICC050	PP070000.D	AR-1260-3 #2	yogesh	2/25/2025 9:00:03 AM	Ankita	2/25/2025 9:47:55	Peak Integrated by Software
AR1221ICC500	PP070001.D	Decachlorobiphenyl	yogesh	2/25/2025 9:00:06 AM	Ankita	2/25/2025 9:47:57	Peak Integrated by Software
AR1242ICC750	PP070004.D	AR-1242-5	yogesh	2/25/2025 9:00:08 AM	Ankita	2/25/2025 9:47:58	Peak Integrated by Software
AR1242ICC250	PP070006.D	AR-1242-5	yogesh	2/25/2025 9:00:09 AM	Ankita	2/25/2025 9:48:00	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242ICC050	PP070007.D	AR-1242-1	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-2	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-3	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-4	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1242ICC050	PP070007.D	AR-1242-5	yogesh	2/25/2025 9:00:11 AM	Ankita	2/25/2025 9:48:01	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-1	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-2	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-3	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-4	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1248ICC050	PP070012.D	AR-1248-5	yogesh	2/25/2025 9:00:12 AM	Ankita	2/25/2025 9:48:03	Peak Integrated by Software
AR1254ICC1000	PP070013.D	AR-1254-1	yogesh	2/25/2025 9:00:14 AM	Ankita	2/25/2025 9:48:05	Peak Integrated by Software
AR1254ICC750	PP070014.D	AR-1254-1	yogesh	2/25/2025 9:00:16 AM	Ankita	2/25/2025 9:48:07	Peak Integrated by Software
AR1254ICC750	PP070014.D	AR-1254-5	yogesh	2/25/2025 9:00:16 AM	Ankita	2/25/2025 9:48:07	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254ICC050	PP070017.D	AR-1254-1	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-1 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-2 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-3	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-3 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-4	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-4 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-5	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	AR-1254-5 #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	Tetrachloro-m-xylene	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1254ICC050	PP070017.D	Tetrachloro-m-xylene #2	yogesh	2/25/2025 9:00:17 AM	Ankita	2/25/2025 9:48:24	Peak Integrated by Software
AR1268ICC750	PP070020.D	Tetrachloro-m-xylene #2	yogesh	2/25/2025 9:00:19 AM	Ankita	2/25/2025 9:48:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022425	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC250	PP070022.D	AR-1268-4 #2	yogesh	2/25/2025 9:00:21 AM	Ankita	2/25/2025 9:48:11	Peak Integrated by Software
AR1268ICC050	PP070023.D	Tetrachloro-m-xylene	yogesh	2/25/2025 9:00:23 AM	Ankita	2/25/2025 9:48:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022525	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242CCC500	PP070031.D	AR-1242-1 #2	yogesh	2/26/2025 8:36:56 AM	Ankita	2/26/2025 9:01:50	Peak Integrated by Software
AR1248CCC500	PP070032.D	AR-1248-1 #2	yogesh	2/26/2025 8:36:59 AM	Ankita	2/26/2025 9:01:52	Peak Integrated by Software
AR1254CCC500	PP070033.D	AR-1254-1	yogesh	2/26/2025 8:37:01 AM	Ankita	2/26/2025 9:01:54	Peak Integrated by Software
AR1254CCC500	PP070033.D	AR-1254-4 #2	yogesh	2/26/2025 8:37:01 AM	Ankita	2/26/2025 9:01:54	Peak Integrated by Software
Q1415-03	PP070039.D	Decachlorobiphenyl	yogesh	2/26/2025 8:37:03 AM	Ankita	2/26/2025 9:01:56	Peak Integrated by Software
Q1415-04	PP070040.D	Decachlorobiphenyl	yogesh	2/26/2025 8:37:05 AM	Ankita	2/26/2025 9:01:57	Peak Integrated by Software
Q1421-03MSD	PP070049.D	AR-1260-1	yogesh	2/26/2025 8:37:10 AM	Ankita	2/26/2025 9:02:02	Peak Integrated by Software
Q1421-03MSD	PP070049.D	AR-1260-4	yogesh	2/26/2025 8:37:10 AM	Ankita	2/26/2025 9:02:02	Peak Integrated by Software
PB166856BS	PP070053.D	Tetrachloro-m-xylene #2	yogesh	2/26/2025 8:37:12 AM	Ankita	2/26/2025 9:02:04	Peak Integrated by Software
Q1415-05	PP070055.D	Tetrachloro-m-xylene #2	yogesh	2/26/2025 8:37:14 AM	Ankita	2/26/2025 9:02:05	Peak Integrated by Software
Q1415-06	PP070056.D	Tetrachloro-m-xylene	yogesh	2/26/2025 8:37:15 AM	Ankita	2/26/2025 9:02:07	Peak Integrated by Software
Q1415-06	PP070056.D	Tetrachloro-m-xylene #2	yogesh	2/26/2025 8:37:15 AM	Ankita	2/26/2025 9:02:07	Peak Integrated by Software
AR1660CCC500	PP070057.D	AR-1016-5	yogesh	2/26/2025 8:37:17 AM	Ankita	2/26/2025 9:02:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP022525	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP069994.D	24 Feb 2025 14:27	YP\AJ	Ok
2	I.BLK	PP069995.D	24 Feb 2025 14:43	YP\AJ	Ok
3	AR1660ICC1000	PP069996.D	24 Feb 2025 14:59	YP\AJ	Ok
4	AR1660ICC750	PP069997.D	24 Feb 2025 15:15	YP\AJ	Ok
5	AR1660ICC500	PP069998.D	24 Feb 2025 15:32	YP\AJ	Ok
6	AR1660ICC250	PP069999.D	24 Feb 2025 15:48	YP\AJ	Ok
7	AR1660ICC050	PP070000.D	24 Feb 2025 16:04	YP\AJ	Ok,M
8	AR1221ICC500	PP070001.D	24 Feb 2025 16:20	YP\AJ	Ok,M
9	AR1232ICC500	PP070002.D	24 Feb 2025 16:37	YP\AJ	Ok
10	AR1242ICC1000	PP070003.D	24 Feb 2025 16:53	YP\AJ	Ok
11	AR1242ICC750	PP070004.D	24 Feb 2025 17:09	YP\AJ	Ok,M
12	AR1242ICC500	PP070005.D	24 Feb 2025 17:25	YP\AJ	Ok
13	AR1242ICC250	PP070006.D	24 Feb 2025 17:42	YP\AJ	Ok,M
14	AR1242ICC050	PP070007.D	24 Feb 2025 17:58	YP\AJ	Ok,M
15	AR1248ICC1000	PP070008.D	24 Feb 2025 18:14	YP\AJ	Ok
16	AR1248ICC750	PP070009.D	24 Feb 2025 18:30	YP\AJ	Ok
17	AR1248ICC500	PP070010.D	24 Feb 2025 18:46	YP\AJ	Ok
18	AR1248ICC250	PP070011.D	24 Feb 2025 19:03	YP\AJ	Ok
19	AR1248ICC050	PP070012.D	24 Feb 2025 19:19	YP\AJ	Ok,M
20	AR1254ICC1000	PP070013.D	24 Feb 2025 19:35	YP\AJ	Ok,M
21	AR1254ICC750	PP070014.D	24 Feb 2025 19:51	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP070015.D	24 Feb 2025 20:08	YP\AJ	Ok
23	AR1254ICC250	PP070016.D	24 Feb 2025 20:24	YP\AJ	Ok
24	AR1254ICC050	PP070017.D	24 Feb 2025 20:40	YP\AJ	Ok,M
25	AR1262ICC500	PP070018.D	24 Feb 2025 20:56	YP\AJ	Ok
26	AR1268ICC1000	PP070019.D	24 Feb 2025 21:12	YP\AJ	Ok
27	AR1268ICC750	PP070020.D	24 Feb 2025 21:29	YP\AJ	Ok,M
28	AR1268ICC500	PP070021.D	24 Feb 2025 21:45	YP\AJ	Ok
29	AR1268ICC250	PP070022.D	24 Feb 2025 22:01	YP\AJ	Ok,M
30	AR1268ICC050	PP070023.D	24 Feb 2025 22:17	YP\AJ	Ok,M
31	PP022425ICV500	PP070024.D	24 Feb 2025 22:34	YP\AJ	Ok
32	AR1242ICV500	PP070025.D	24 Feb 2025 22:50	YP\AJ	Ok
33	AR1248ICV500	PP070026.D	24 Feb 2025 23:06	YP\AJ	Ok
34	AR1254ICV500	PP070027.D	24 Feb 2025 23:22	YP\AJ	Ok
35	AR1268ICV500	PP070028.D	24 Feb 2025 23:38	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022525

Review By	yogesh	Review On	2/26/2025 8:37:32 AM		
Supervise By	Ankita	Supervise On	2/26/2025 9:02:27 AM		
SubDirectory	PP022525	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP070029.D	25 Feb 2025 09:27	YP\AJ	Ok
2	AR1660CCC500	PP070030.D	25 Feb 2025 09:43	YP\AJ	Ok
3	AR1242CCC500	PP070031.D	25 Feb 2025 09:59	YP\AJ	Ok,M
4	AR1248CCC500	PP070032.D	25 Feb 2025 10:15	YP\AJ	Ok,M
5	AR1254CCC500	PP070033.D	25 Feb 2025 10:32	YP\AJ	Ok,M
6	I.BLK	PP070034.D	25 Feb 2025 10:48	YP\AJ	Ok
7	PB166854BL	PP070035.D	25 Feb 2025 12:23	YP\AJ	Ok
8	PB166854BS	PP070036.D	25 Feb 2025 12:39	YP\AJ	Ok
9	Q1415-01	PP070037.D	25 Feb 2025 12:55	YP\AJ	Ok
10	Q1415-02	PP070038.D	25 Feb 2025 13:11	YP\AJ	Ok
11	Q1415-03	PP070039.D	25 Feb 2025 13:28	YP\AJ	Ok,M
12	Q1415-04	PP070040.D	25 Feb 2025 13:44	YP\AJ	Ok,M
13	Q1416-01	PP070041.D	25 Feb 2025 14:00	YP\AJ	Ok,M
14	Q1418-01	PP070042.D	25 Feb 2025 14:16	YP\AJ	Ok,M
15	Q1420-01	PP070043.D	25 Feb 2025 14:33	YP\AJ	Ok
16	Q1420-05	PP070044.D	25 Feb 2025 14:49	YP\AJ	Ok
17	AR1660CCC500	PP070045.D	25 Feb 2025 15:27	YP\AJ	Ok
18	I.BLK	PP070046.D	25 Feb 2025 15:43	YP\AJ	Ok
19	Q1421-01	PP070047.D	25 Feb 2025 16:00	YP\AJ	Ok
20	Q1421-02MS	PP070048.D	25 Feb 2025 16:16	YP\AJ	Ok
21	Q1421-03MSD	PP070049.D	25 Feb 2025 16:32	YP\AJ	Ok,M

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022525

Review By	yogesh	Review On	2/26/2025 8:37:32 AM		
Supervise By	Ankita	Supervise On	2/26/2025 9:02:27 AM		
SubDirectory	PP022525	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750 ,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP2376 5,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1421-07	PP070050.D	25 Feb 2025 16:48	YP\AJ	Ok
23	Q1421-09	PP070051.D	25 Feb 2025 17:05	YP\AJ	Ok
24	PB166856BL	PP070052.D	25 Feb 2025 17:21	YP\AJ	Ok
25	PB166856BS	PP070053.D	25 Feb 2025 17:37	YP\AJ	Ok,M
26	PB166856BSD	PP070054.D	25 Feb 2025 17:53	YP\AJ	Ok
27	Q1415-05	PP070055.D	25 Feb 2025 18:10	YP\AJ	Ok,M
28	Q1415-06	PP070056.D	25 Feb 2025 18:26	YP\AJ	Ok,M
29	AR1660CCC500	PP070057.D	25 Feb 2025 19:04	YP\AJ	Ok,M
30	I.BLK	PP070058.D	25 Feb 2025 19:20	YP\AJ	Ok
31	Q1408-01	PP070059.D	25 Feb 2025 19:36	YP\AJ	Ok,M
32	AR1660CCC500	PP070060.D	25 Feb 2025 20:36	YP\AJ	Ok
33	I.BLK	PP070061.D	25 Feb 2025 20:52	YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP069994.D	24 Feb 2025 14:27		YP\AJ	Ok
2	I.BLK	I.BLK	PP069995.D	24 Feb 2025 14:43		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP069996.D	24 Feb 2025 14:59		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP069997.D	24 Feb 2025 15:15		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP069998.D	24 Feb 2025 15:32		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP069999.D	24 Feb 2025 15:48		YP\AJ	Ok
7	AR1660ICC050	AR1660ICC050	PP070000.D	24 Feb 2025 16:04		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP070001.D	24 Feb 2025 16:20		YP\AJ	Ok,M
9	AR1232ICC500	AR1232ICC500	PP070002.D	24 Feb 2025 16:37		YP\AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP070003.D	24 Feb 2025 16:53		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP070004.D	24 Feb 2025 17:09		YP\AJ	Ok,M
12	AR1242ICC500	AR1242ICC500	PP070005.D	24 Feb 2025 17:25		YP\AJ	Ok
13	AR1242ICC250	AR1242ICC250	PP070006.D	24 Feb 2025 17:42		YP\AJ	Ok,M
14	AR1242ICC050	AR1242ICC050	PP070007.D	24 Feb 2025 17:58		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP070008.D	24 Feb 2025 18:14		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP070009.D	24 Feb 2025 18:30		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP070010.D	24 Feb 2025 18:46		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP070011.D	24 Feb 2025 19:03		YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022425

Review By	yogesh	Review On	2/25/2025 9:00:36 AM		
Supervise By	Ankita	Supervise On	2/25/2025 9:48:29 AM		
SubDirectory	PP022425	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP070012.D	24 Feb 2025 19:19		YP\AJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PP070013.D	24 Feb 2025 19:35		YP\AJ	Ok,M
21	AR1254ICC750	AR1254ICC750	PP070014.D	24 Feb 2025 19:51		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP070015.D	24 Feb 2025 20:08		YP\AJ	Ok
23	AR1254ICC250	AR1254ICC250	PP070016.D	24 Feb 2025 20:24		YP\AJ	Ok
24	AR1254ICC050	AR1254ICC050	PP070017.D	24 Feb 2025 20:40		YP\AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP070018.D	24 Feb 2025 20:56		YP\AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PP070019.D	24 Feb 2025 21:12		YP\AJ	Ok
27	AR1268ICC750	AR1268ICC750	PP070020.D	24 Feb 2025 21:29		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP070021.D	24 Feb 2025 21:45		YP\AJ	Ok
29	AR1268ICC250	AR1268ICC250	PP070022.D	24 Feb 2025 22:01		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP070023.D	24 Feb 2025 22:17		YP\AJ	Ok,M
31	PP022425ICV500	ICVPP022425	PP070024.D	24 Feb 2025 22:34		YP\AJ	Ok
32	AR1242ICV500	ICVPP022425AR1242	PP070025.D	24 Feb 2025 22:50		YP\AJ	Ok
33	AR1248ICV500	ICVPP022425AR1248	PP070026.D	24 Feb 2025 23:06		YP\AJ	Ok
34	AR1254ICV500	ICVPP022425AR1254	PP070027.D	24 Feb 2025 23:22		YP\AJ	Ok
35	AR1268ICV500	ICVPP022425AR1268	PP070028.D	24 Feb 2025 23:38		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022525

Review By	yogesh	Review On	2/26/2025 8:37:32 AM		
Supervise By	Ankita	Supervise On	2/26/2025 9:02:27 AM		
SubDirectory	PP022525	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP070029.D	25 Feb 2025 09:27		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP070030.D	25 Feb 2025 09:43		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP070031.D	25 Feb 2025 09:59		YP\AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PP070032.D	25 Feb 2025 10:15		YP\AJ	Ok,M
5	AR1254CCC500	AR1254CCC500	PP070033.D	25 Feb 2025 10:32		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP070034.D	25 Feb 2025 10:48		YP\AJ	Ok
7	PB166854BL	PB166854BL	PP070035.D	25 Feb 2025 12:23		YP\AJ	Ok
8	PB166854BS	PB166854BS	PP070036.D	25 Feb 2025 12:39		YP\AJ	Ok
9	Q1415-01	B-163-SB01	PP070037.D	25 Feb 2025 12:55		YP\AJ	Ok
10	Q1415-02	B-172-SB01	PP070038.D	25 Feb 2025 13:11		YP\AJ	Ok
11	Q1415-03	B-163-SB02	PP070039.D	25 Feb 2025 13:28		YP\AJ	Ok,M
12	Q1415-04	B-172-SB02	PP070040.D	25 Feb 2025 13:44		YP\AJ	Ok,M
13	Q1416-01	OK-01-022425	PP070041.D	25 Feb 2025 14:00		YP\AJ	Ok,M
14	Q1418-01	TR-06-02242025	PP070042.D	25 Feb 2025 14:16		YP\AJ	Ok,M
15	Q1420-01	TP-1-WC	PP070043.D	25 Feb 2025 14:33		YP\AJ	Ok
16	Q1420-05	TP-2-WC	PP070044.D	25 Feb 2025 14:49		YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP070045.D	25 Feb 2025 15:27		YP\AJ	Ok
18	I.BLK	I.BLK	PP070046.D	25 Feb 2025 15:43		YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP022525

Review By	yogesh	Review On	2/26/2025 8:37:32 AM		
Supervise By	Ankita	Supervise On	2/26/2025 9:02:27 AM		
SubDirectory	PP022525	HP Acquire Method		HP Processing Method	PP012825

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23735,PP23736,PP23737,PP23738,PP23739,PP23740,PP23741,PP23742,PP23743,PP23744,PP23745,PP23747,PP23748,PP23749,PP23750,PP23751,PP23752,PP23753,PP23754,PP23755,PP23756,PP23757,PP23758,PP23759,PP23760,PP23761,PP23762,PP23763,PP23764,PP23765,PP23766,PP23767,PP23768,PP23769,PP23770,PP23771,PP23772,PP23773,PP23774,PP23775
CCC	PP23737,PP23742,PP23749,PP23754,PP23758,PP23763,PP23768,PP23773
Internal Standard/PEM	
ICV/I.BLK	PP23778,PP23780,PP23783,PP23784,PP23786,PP23788,PP23790,PP23947
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1421-01	P001-CLAY-CF01-01	PP070047.D	25 Feb 2025 16:00		YP\AJ	Ok
20	Q1421-02MS	P001-CLAY-CF01-01M	PP070048.D	25 Feb 2025 16:16		YP\AJ	Ok
21	Q1421-03MSD	P001-CLAY-CF01-01M	PP070049.D	25 Feb 2025 16:32		YP\AJ	Ok,M
22	Q1421-07	P001-CLAY-CF01-02	PP070050.D	25 Feb 2025 16:48		YP\AJ	Ok
23	Q1421-09	P001-CLAY-CF02-01	PP070051.D	25 Feb 2025 17:05		YP\AJ	Ok
24	PB166856BL	PB166856BL	PP070052.D	25 Feb 2025 17:21		YP\AJ	Ok
25	PB166856BS	PB166856BS	PP070053.D	25 Feb 2025 17:37		YP\AJ	Ok,M
26	PB166856BSD	PB166856BSD	PP070054.D	25 Feb 2025 17:53		YP\AJ	Ok
27	Q1415-05	FB02222025	PP070055.D	25 Feb 2025 18:10		YP\AJ	Ok,M
28	Q1415-06	B-173-GW01	PP070056.D	25 Feb 2025 18:26		YP\AJ	Ok,M
29	AR1660CCC500	AR1660CCC500	PP070057.D	25 Feb 2025 19:04		YP\AJ	Ok,M
30	I.BLK	I.BLK	PP070058.D	25 Feb 2025 19:20		YP\AJ	Ok
31	Q1408-01	813	PP070059.D	25 Feb 2025 19:36	DCB High in 1st column	YP\AJ	Ok,M
32	AR1660CCC500	AR1660CCC500	PP070060.D	25 Feb 2025 20:36		YP\AJ	Ok
33	I.BLK	I.BLK	PP070061.D	25 Feb 2025 20:52		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166854

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: Acid Cleanup

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 02/25/2025

Extraction Start Time : 09:02

Extraction End Date : 02/25/2025

Extraction End Time : 12:05

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [_] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24093
Surrogate	1.0ML	200 PPB	PP24123
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2583
Baked Na2SO4	N/A	EP2589
Sand	N/A	E2865
H2SO4 1:1	N/A	EP2565
Hexane	N/A	E3877
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (Ext-Lab)	Y.P. PESTPCD.
12:10	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166854

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166854BL	ABLK854	PCB	30.01	N/A	ritesh	Evelyn	10			U7-1
PB166854BS	ALCS854	PCB	30.02	N/A	ritesh	Evelyn	10			2
Q1415-01	B-163-SB01	PCB	30.05	N/A	ritesh	Evelyn	10	E		3
Q1415-02	B-172-SB01	PCB	30.03	N/A	ritesh	Evelyn	10	E		4
Q1415-03	B-163-SB02	PCB	30.08	N/A	ritesh	Evelyn	10	E		5
Q1415-04	B-172-SB02	PCB	30.02	N/A	ritesh	Evelyn	10	E		6
Q1416-01	OK-01-022425	PCB	30.03	N/A	ritesh	Evelyn	10	E		U6-1
Q1418-01	TR-06-02242025	PCB	30.06	N/A	ritesh	Evelyn	10	E		2
Q1420-01	TP-1-WC	PCB	30.09	N/A	ritesh	Evelyn	10	E		3
Q1420-05	TP-2-WC	PCB	30.05	N/A	ritesh	Evelyn	10	E		4
Q1421-01	P001-CLAY-CF01-01	PCB	30.04	N/A	ritesh	Evelyn	10	E		5
Q1421-02	Q1421-01MS	PCB	30.01	N/A	ritesh	Evelyn	10	E		6
Q1421-03	Q1421-01MSD	PCB	30.03	N/A	ritesh	Evelyn	10	E		U2-1
Q1421-07	P001-CLAY-CF01-02	PCB	30.07	N/A	ritesh	Evelyn	10	F		2
Q1421-09	P001-CLAY-CF02-01	PCB	30.02	N/A	ritesh	Evelyn	10	E		3

RS 2/25

* **Extracts relinquished on the same date as received.**

Q1415 866 854 9-02

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1416 **WorkList ID :** 187862 **Department :** Extraction **Date :** 02-25-2025 08:37:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	PCB	Cool 4 deg C	PORT06	N31	02/22/2025	8082A
Q1415-02	B-172-SB01	Solid	PCB	Cool 4 deg C	PORT06	N31	02/22/2025	8082A
Q1415-03	B-163-SB02	Solid	PCB	Cool 4 deg C	PORT06	N31	02/22/2025	8082A
Q1415-04	B-172-SB02	Solid	PCB	Cool 4 deg C	PORT06	N31	02/22/2025	8082A
Q1416-01	OK-01-022425	Solid	PCB	Cool 4 deg C	PSEG05	N41	02/24/2025	8082A
Q1418-01	TR-06-02242025	Solid	PCB	Cool 4 deg C	PSEG05	H41	02/24/2025	8082A
Q1420-01	TP-1-WC	Solid	PCB	Cool 4 deg C	PSEG03	N41	02/24/2025	8082A
Q1420-05	TP-2-WC	Solid	PCB	Cool 4 deg C	PSEG03	N41	02/24/2025	8082A
Q1421-01	P001-CLAY-CF01-01	Solid	PCB	Cool 4 deg C	ROYF02	H31	02/24/2025	8082A
Q1421-02	Q1421-01MS	Solid	PCB	Cool 4 deg C	ROYF02	H31	02/24/2025	8082A
Q1421-03	Q1421-01MSD	Solid	PCB	Cool 4 deg C	ROYF02	H31	02/24/2025	8082A
Q1421-07	P001-CLAY-CF01-02	Solid	PCB	Cool 4 deg C	ROYF02	H31	02/24/2025	8082A
Q1421-09	P001-CLAY-CF02-01	Solid	PCB	Cool 4 deg C	ROYF02	H31	02/24/2025	8082A

677 of 1193

Date/Time 2/25/25 9:00
Raw Sample Received by: RJ (EXT-Lab)
Raw Sample Relinquished by: CP

Date/Time 2/25/25 9:30
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (EXT-Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166856

SOP ID: M3510C,3580A-Extraction PCB-14

Clean Up SOP #: Acid Cleanup

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 02/25/2025

Extraction Start Time : 08:49

Extraction End Date : 02/25/2025

Extraction End Time : 13:40

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24093
Surrogate	1.0ML	200 PPB	PP24123
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3874
Baked Na2SO4	N/A	EP2589
Hexane	N/A	E3877
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721. Q1408-01 Limited volume used as samples are Oily and Q1415-05 Limited volume received .

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (Ext-lab)	Y-P-Pest-PLB
13:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166856

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166856BL	ABLK856	PCB	1000	6	RUPESH	ritesh	10			SEP-6
PB166856BS	ALCS856	PCB	1000	6	RUPESH	ritesh	10			7
PB166856BSD	ALCSD856	PCB	1000	6	RUPESH	ritesh	10			8
Q1408-01	813	PCB	100	6	RUPESH	ritesh	10	C	Oily	9
Q1415-05	FB02222025	PCB	480	6	RUPESH	ritesh	5	G		10
Q1415-06	B-173-GW01	PCB	900	6	RUPESH	ritesh	10	G		11

RS 2/25

* **Extracts relinquished on the same date as received.**

Q1415 2/26 8:49

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1408 **WorkList ID :** 187865 **Department :** Extraction **Date :** 02-25-2025 08:45:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1408-01	813	Water	PCB	Cool 4 deg C	PSEG03	H23	02/21/2025	8082A
Q1415-05	FB02222025	Water	PCB	Cool 4 deg C	PORT06	N31	02/22/2025	8082A
Q1415-06	B-173-GW01	Water	PCB	Cool 4 deg C	PORT06	N31	02/22/2025	8082A

680 of 1193

Date/Time 2/25/25 8:45
Raw Sample Received by: RJ (EA-lab)
Raw Sample Relinquished by:

Date/Time 2/25/25 9:15
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EA-lab)

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
Q1415-02	**B-172-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
Q1415-03	**B-163-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
Q1415-04	**B-172-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
Q1415-05	**FB02222025**	**WATER**			**02/22/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
Q1415-06	**B-173-GW01**	**WATER**			**02/22/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	

SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 12:50	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.13	mg/kg	FC068325.D
Aliphatic C12-C16	Aliphatic C12-C16	0.83		1	0.27	0.75	mg/kg	FC068325.D
Aliphatic C16-C21	Aliphatic C16-C21	0.48	J	1	0.34	1.13	mg/kg	FC068325.D
Aliphatic C21-C28	Aliphatic C21-C28	0.96	J	1	0.90	1.50	mg/kg	FC068325.D
Aliphatic C28-C40	Aliphatic C28-C40	2.38		1	2.03	2.26	mg/kg	FC068325.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FD049133.D
Aromatic C12-C16	Aromatic C12-C16	0.55	J	1	0.38	1.13	mg/kg	FD049133.D
Aromatic C16-C21	Aromatic C16-C21	2.57		1	1.08	1.88	mg/kg	FD049133.D
Aromatic C21-C36	Aromatic C21-C36	3.40		1	2.26	3.01	mg/kg	FD049133.D
Total AliphaticEPH	Total AliphaticEPH	4.64	J		3.97	6.77	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.51	J		4.06	6.77	mg/kg	
Total EPH	Total EPH	11.2	J		8.03	13.5	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068325.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.43	U	0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.83		0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.48	J	0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.96	J	0.90	1.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.38		2.03	2.26	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		50.5		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-01	Acq On:	28 Feb 2025 12:50
Client Sample ID:	B-163-SB01	Operator:	YP/AJ
Data file:	FC068325.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	654794	4.643	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1499637	10.974	200	ug/ml
Aliphatic C16-C21	9.755	13.107	831398	6.316	300	ug/ml
Aliphatic C21-C28	13.108	16.761	1571550	12.809	400	ug/ml
Aliphatic C28-C40	16.762	21.565	3260834	31.706	600	ug/ml
Aliphatic EPH	3.104	21.565	7818213	66.448		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.841	12.841	5678401	50.49		ug/ml
Aliphatic C9-C28	3.104	16.761	4557379	34.742	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049133.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	U	0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.55	J	0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.57		1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.40		2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.3		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.1		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.2		40 - 140	102%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-01	Acq On:	28 Feb 2025 12:50
Client Sample ID:	B-163-SB01	Operator:	YP/AJ
Data file:	FD049133.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	639802	4.023	200	ug/ml
Aromatic C12-C16	5.795	8.396	1166774	7.25	300	ug/ml
Aromatic C16-C21	8.397	12.661	5246823	34.213	500	ug/ml
Aromatic C21-C36	12.662	18.073	6465271	45.175	800	ug/ml
Aromatic EPH	4.076	18.073	13518670	90.661		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8287576	51.23		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	7340019	51.29		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4052606	46.1		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 13:26	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.15	mg/kg	FC068326.D
Aliphatic C12-C16	Aliphatic C12-C16	0.66	J	1	0.28	0.77	mg/kg	FC068326.D
Aliphatic C16-C21	Aliphatic C16-C21	0.35	U	1	0.35	1.15	mg/kg	FC068326.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.54	mg/kg	FC068326.D
Aliphatic C28-C40	Aliphatic C28-C40	2.08	U	1	2.08	2.31	mg/kg	FC068326.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.77	mg/kg	FD049134.D
Aromatic C12-C16	Aromatic C12-C16	0.41	J	1	0.39	1.15	mg/kg	FD049134.D
Aromatic C16-C21	Aromatic C16-C21	1.32	J	1	1.11	1.92	mg/kg	FD049134.D
Aromatic C21-C36	Aromatic C21-C36	2.31	U	1	2.31	3.07	mg/kg	FD049134.D
Total AliphaticEPH	Total AliphaticEPH	4.06	U		4.06	6.92	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.16	U		4.16	6.91	mg/kg	
Total EPH	Total EPH	8.22	U		8.22	13.8	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068326.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.44	U	0.44	1.15	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.66	J	0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.35	U	0.35	1.15	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.92	U	0.92	1.54	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.08	U	2.08	2.31	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		40.9		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-02	Acq On:	28 Feb 2025 13:26
Client Sample ID:	B-172-SB01	Operator:	YP/AJ
Data file:	FC068326.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	495963	3.517	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1170303	8.564	200	ug/ml
Aliphatic C16-C21	9.755	13.107	581055	4.414	300	ug/ml
Aliphatic C21-C28	13.108	16.761	488917	3.985	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2673478	25.995	600	ug/ml
Aliphatic EPH	3.104	21.565	5409716	46.475		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	4594404	40.85		ug/ml
Aliphatic C9-C28	3.104	16.761	2736238	20.48	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049134.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.35	U	0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.41	J	0.39	1.15	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.32	J	1.11	1.92	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.31	U	2.31	3.07	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.2		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.0		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.9		40 - 140	80%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-02	Acq On:	28 Feb 2025 13:26
Client Sample ID:	B-172-SB01	Operator:	YP/AJ
Data file:	FD049134.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	431662	2.715	200	ug/ml
Aromatic C12-C16	5.795	8.396	865079	5.375	300	ug/ml
Aromatic C16-C21	8.397	12.661	2625310	17.119	500	ug/ml
Aromatic C21-C36	12.662	18.073	3900889	27.257	800	ug/ml
Aromatic EPH	4.076	18.073	7822940	52.466		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	6456380	39.91		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	6756272	47.21		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	3783597	43.04		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	72.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 14:03	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.52	U	1	0.52	1.38	mg/kg	FC068327.D
Aliphatic C12-C16	Aliphatic C12-C16	0.96		1	0.33	0.92	mg/kg	FC068327.D
Aliphatic C16-C21	Aliphatic C16-C21	0.66	J	1	0.41	1.38	mg/kg	FC068327.D
Aliphatic C21-C28	Aliphatic C21-C28	1.20	J	1	1.10	1.84	mg/kg	FC068327.D
Aliphatic C28-C40	Aliphatic C28-C40	2.48	U	1	2.48	2.76	mg/kg	FC068327.D
Aromatic C10-C12	Aromatic C10-C12	0.41	U	1	0.41	0.92	mg/kg	FD049135.D
Aromatic C12-C16	Aromatic C12-C16	3.00		1	0.47	1.38	mg/kg	FD049135.D
Aromatic C16-C21	Aromatic C16-C21	2.02	J	1	1.32	2.30	mg/kg	FD049135.D
Aromatic C21-C36	Aromatic C21-C36	2.87	J	1	2.76	3.68	mg/kg	FD049135.D
Total AliphaticEPH	Total AliphaticEPH	4.85	U		4.85	8.28	mg/kg	
Total AromaticEPH	Total AromaticEPH	7.89	J		4.96	8.28	mg/kg	
Total EPH	Total EPH	10.7	J		9.81	16.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	72.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068327.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.52	U	0.52	1.38	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.96		0.33	0.92	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.66	J	0.41	1.38	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.20	J	1.10	1.84	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.48	U	2.48	2.76	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-03	Acq On:	28 Feb 2025 14:03
Client Sample ID:	B-163-SB02	Operator:	YP/AJ
Data file:	FC068327.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	705853	5.005	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1427669	10.447	200	ug/ml
Aliphatic C16-C21	9.755	13.107	938853	7.132	300	ug/ml
Aliphatic C21-C28	13.108	16.761	1595637	13.005	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2528112	24.581	600	ug/ml
Aliphatic EPH	3.104	21.565	7196124	60.171		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	4203916	37.38		ug/ml
Aliphatic C9-C28	3.104	16.761	4668012	35.589	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	72.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049135.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.41	U	0.41	0.92	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.00		0.47	1.38	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.02	J	1.32	2.30	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.87	J	2.76	3.68	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.7		40 - 140	105%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	49.1		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.3		40 - 140	79%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-03	Acq On:	28 Feb 2025 14:03
Client Sample ID:	B-163-SB02	Operator:	YP/AJ
Data file:	FD049135.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	436225	2.743	200	ug/ml
Aromatic C12-C16	5.795	8.396	5257060	32.666	300	ug/ml
Aromatic C16-C21	8.397	12.661	3364506	21.939	500	ug/ml
Aromatic C21-C36	12.662	18.073	4463401	31.188	800	ug/ml
Aromatic EPH	4.076	18.073	13521192	88.535		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	6363238	39.33		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	7538273	52.67		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4320522	49.15		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 14:40	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.66	J	1	0.42	1.11	mg/kg	FC068328.D
Aliphatic C12-C16	Aliphatic C12-C16	0.92		1	0.27	0.74	mg/kg	FC068328.D
Aliphatic C16-C21	Aliphatic C16-C21	0.33	U	1	0.33	1.11	mg/kg	FC068328.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	U	1	0.89	1.48	mg/kg	FC068328.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	2.00	2.22	mg/kg	FC068328.D
Aromatic C10-C12	Aromatic C10-C12	0.33	U	1	0.33	0.74	mg/kg	FD049136.D
Aromatic C12-C16	Aromatic C12-C16	0.46	J	1	0.38	1.11	mg/kg	FD049136.D
Aromatic C16-C21	Aromatic C16-C21	1.41	J	1	1.07	1.85	mg/kg	FD049136.D
Aromatic C21-C36	Aromatic C21-C36	2.26	J	1	2.22	2.96	mg/kg	FD049136.D
Total AliphaticEPH	Total AliphaticEPH	3.91	U		3.91	6.66	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.13	J		4.00	6.66	mg/kg	
Total EPH	Total EPH	7.92	U		7.92	13.3	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068328.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.66	J	0.42	1.11	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.92		0.27	0.74	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.33	U	0.33	1.11	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.89	U	0.89	1.48	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.00	U	2.00	2.22	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		34.9		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-04	Acq On:	28 Feb 2025 14:40
Client Sample ID:	B-172-SB02	Operator:	YP/AJ
Data file:	FC068328.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	1259624	8.931	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1701567	12.452	200	ug/ml
Aliphatic C16-C21	9.755	13.107	496518	3.772	300	ug/ml
Aliphatic C21-C28	13.108	16.761	472897	3.854	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2667948	25.941	600	ug/ml
Aliphatic EPH	3.104	21.565	6598554	54.95		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	3923025	34.88		ug/ml
Aliphatic C9-C28	3.104	16.761	3930606	29.009	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049136.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.33	U	0.33	0.74	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.46	J	0.38	1.11	mg/kg
Aromatic C16-C21	Aromatic C16-C21		1.41	J	1.07	1.85	mg/kg
Aromatic C21-C36	Aromatic C21-C36		2.26	J	2.22	2.96	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		56.8		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		59.0		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		41.4		40 - 140	83%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-04	Acq On:	28 Feb 2025 14:40
Client Sample ID:	B-172-SB02	Operator:	YP/AJ
Data file:	FD049136.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	589679	3.708	200	ug/ml
Aromatic C12-C16	5.795	8.396	989941	6.151	300	ug/ml
Aromatic C16-C21	8.397	12.661	2907735	18.96	500	ug/ml
Aromatic C21-C36	12.662	18.073	4359852	30.464	800	ug/ml
Aromatic EPH	4.076	18.073	8847207	59.284		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	6703578	41.44		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8127994	56.8		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5189155	59.03		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:00	02/25/25 17:36	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.00	U	1	6.00	31.2	ug/l	FC068299.D
Aliphatic C12-C16	Aliphatic C12-C16	3.76	U	1	3.76	20.8	ug/l	FC068299.D
Aliphatic C16-C21	Aliphatic C16-C21	5.35	U	1	5.35	31.2	ug/l	FC068299.D
Aliphatic C21-C28	Aliphatic C21-C28	9.34	U	1	9.34	41.7	ug/l	FC068299.D
Aliphatic C28-C40	Aliphatic C28-C40	17.7	U	1	17.7	62.5	ug/l	FC068299.D
Aromatic C10-C12	Aromatic C10-C12	3.46	U	1	3.46	20.8	ug/l	FD049104.D
Aromatic C12-C16	Aromatic C12-C16	3.84	U	1	3.84	31.2	ug/l	FD049104.D
Aromatic C16-C21	Aromatic C16-C21	13.2	U	1	13.2	52.1	ug/l	FD049104.D
Aromatic C21-C36	Aromatic C21-C36	27.3	J	1	26.2	83.3	ug/l	FD049104.D
Total AliphaticEPH	Total AliphaticEPH	42.1	U		42.1	187	ug/l	
Total AromaticEPH	Total AromaticEPH	46.7	U		46.7	187	ug/l	
Total EPH	Total EPH	88.8	U		88.8	375	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068299.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		6.00	U	6.00	31.2	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.76	U	3.76	20.8	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.35	U	5.35	31.2	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		9.34	U	9.34	41.7	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.7	U	17.7	62.5	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		35.6		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-05	Acq On:	25 Feb 2025 17:36
Client Sample ID:	FB02222025	Operator:	YP/AJ
Data file:	FC068299.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	0	0	300	ug/ml
Aliphatic C12-C16	6.372	9.756	0	0	200	ug/ml
Aliphatic C16-C21	9.757	13.110	0	0	300	ug/ml
Aliphatic C21-C28	13.111	16.764	0	0	400	ug/ml
Aliphatic C28-C40	16.765	21.571	0	0	600	ug/ml
Aliphatic EPH	3.105	21.571	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.842	12.842	4004876	35.61		ug/ml
Aliphatic C9-C28	3.105	16.764	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049104.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		3.46	U	3.46	20.8	ug/l
Aromatic C12-C16	Aromatic C12-C16		3.84	U	3.84	31.2	ug/l
Aromatic C16-C21	Aromatic C16-C21		13.2	U	13.2	52.1	ug/l
Aromatic C21-C36	Aromatic C21-C36		27.3	J	26.2	83.3	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		53.3		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		55.6		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		49.3		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-05	Acq On:	25 Feb 2025 17:36
Client Sample ID:	FB02222025	Operator:	YP/AJ
Data file:	FD049104.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	73314	0.461	200	ug/ml
Aromatic C12-C16	5.794	8.396	43097	0.268	300	ug/ml
Aromatic C16-C21	8.397	12.660	621464	4.052	500	ug/ml
Aromatic C21-C36	12.661	18.070	1878259	13.124	800	ug/ml
Aromatic EPH	4.075	18.070	2616134	17.905		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	7629671	53.31		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4891693	55.64		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	7979636	49.33		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:00	02/25/25 18:13	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.40	U	1	6.40	33.3	ug/l	FC068300.D
Aliphatic C12-C16	Aliphatic C12-C16	4.01	U	1	4.01	22.2	ug/l	FC068300.D
Aliphatic C16-C21	Aliphatic C16-C21	5.71	U	1	5.71	33.3	ug/l	FC068300.D
Aliphatic C21-C28	Aliphatic C21-C28	9.97	U	1	9.97	44.4	ug/l	FC068300.D
Aliphatic C28-C40	Aliphatic C28-C40	18.9	U	1	18.9	66.7	ug/l	FC068300.D
Aromatic C10-C12	Aromatic C10-C12	3.69	U	1	3.69	22.2	ug/l	FD049105.D
Aromatic C12-C16	Aromatic C12-C16	4.10	U	1	4.10	33.3	ug/l	FD049105.D
Aromatic C16-C21	Aromatic C16-C21	14.1	U	1	14.1	55.6	ug/l	FD049105.D
Aromatic C21-C36	Aromatic C21-C36	28.0	U	1	28.0	88.9	ug/l	FD049105.D
Total AliphaticEPH	Total AliphaticEPH	45.0	U		45.0	200	ug/l	
Total AromaticEPH	Total AromaticEPH	49.9	U		49.9	200	ug/l	
Total EPH	Total EPH	94.9	U		94.9	400	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068300.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.40	U	6.40	33.3	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	4.01	U	4.01	22.2	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.71	U	5.71	33.3	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	9.97	U	9.97	44.4	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	18.9	U	18.9	66.7	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.8		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-06	Acq On:	25 Feb 2025 18:13
Client Sample ID:	B-173-GW01	Operator:	YP/AJ
Data file:	FC068300.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	238016	1.688	300	ug/ml
Aliphatic C12-C16	6.372	9.756	188032	1.376	200	ug/ml
Aliphatic C16-C21	9.757	13.110	0	0	300	ug/ml
Aliphatic C21-C28	13.111	16.764	0	0	400	ug/ml
Aliphatic C28-C40	16.765	21.571	0	0	600	ug/ml
Aliphatic EPH	3.105	21.571	426048	3.064		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.841	12.841	3123778	27.77		ug/ml
Aliphatic C9-C28	3.105	16.764	426048	3.064	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049105.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.69	U	3.69	22.2	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.10	U	4.10	33.3	ug/l
Aromatic C16-C21	Aromatic C16-C21	14.1	U	14.1	55.6	ug/l
Aromatic C21-C36	Aromatic C21-C36	28.0	U	28.0	88.9	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.6		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.5		40 - 140	127%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.1		40 - 140	56%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-06	Acq On:	25 Feb 2025 18:13
Client Sample ID:	B-173-GW01	Operator:	YP/AJ
Data file:	FD049105.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	158473	0.997	200	ug/ml
Aromatic C12-C16	5.794	8.396	202999	1.261	300	ug/ml
Aromatic C16-C21	8.397	12.660	871427	5.682	500	ug/ml
Aromatic C21-C36	12.661	18.070	996427	6.962	800	ug/ml
Aromatic EPH	4.075	18.070	2229326	14.903		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	4550424	28.13		ug/ml
2-Bromonaphthalene (SURR)	7.353	7.353	8810523	61.57		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5586333	63.54		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FC022525AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166863BL	64			0
PB166863BS	81			0
PB166863BSD	80			0
FB02222025	71			0
B-173-GW01	56			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FC022825AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166923BL	83			0
PB166923BS	78			0
PB166923BSD	77			0
B-163-SB01	101			0
B-172-SB01	82			0
B-163-SB02	75			0
B-172-SB02	70			0
P001-CLAY-CF01-01MS	61			0
P001-CLAY-CF01-01MSD	65			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FD022525AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166863BL	112	113	95	0
PB166863BS	120	114	103	0
PB166863BSD	120	113	102	0
FB02222025	107	111	99	0
B-173-GW01	123	127	56	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FD022825AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166923BL	112	116	99	0
PB166923BS	117	124	106	0
PB166923BSD	118	126	107	0
B-163-SB01	103	92	102	0
B-172-SB01	94	86	80	0
B-163-SB02	105	98	79	0
B-172-SB02	114	118	83	0
P001-CLAY-CF01-01MS	118	124	67	0
P001-CLAY-CF01-01MSD	112	118	64	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-02 **Datafile:** FC068334.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	14.2	0	9.70	68		(40-140)
Aliphatic C12-C16	9.5	0.50	9.05	90		(40-140)
Aliphatic C16-C21	14.2	0.43	14.6	100		(40-140)
Aliphatic C21-C28	18.9	0	19.4	102		(40-140)
Aliphatic C28-C40	28.4	2.80	34.1	110		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-03 **Datafile:** FC068335.D

Client ID : P001-CLAY-CF01-01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	14.2	0	9.71	68		0.15 |	(40-140)	25
Aliphatic C12-C16	9.5	0.50	9.10	91		0.44 |	(40-140)	25
Aliphatic C16-C21	14.2	0.43	14.7	100		0.1 |	(40-140)	25
Aliphatic C21-C28	18.9	0	19.6	103		0.98 |	(40-140)	25
Aliphatic C28-C40	28.4	2.80	34.6	111		0.9 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-02 **Datafile:** FD049142.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	9.5	0.47	9.80	99		(40-140)
Aromatic C12-C16	14.2	0.65	17.2	116		(40-140)
Aromatic C16-C21	23.7	2.61	35.7	139		(40-140)
Aromatic C21-C36	37.8	0	57.2	151	*	(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-03 **Datafile:** FD049143.D

Client ID : P001-CLAY-CF01-01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	9.5	0.47	9.34	94		5.1 |	(40-140)	25
Aromatic C12-C16	14.2	0.65	16.4	110		5.31 |	(40-140)	25
Aromatic C16-C21	23.7	2.61	34.2	133		4.41 |	(40-140)	25
Aromatic C21-C36	37.9	0	55.5	146	*	3.37 |	(40-140)	25

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BS **Datafile:** FC068297.D

Client ID : PB166863BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	172	57		(40-140)
Aliphatic C12-C16	200	158	79		(40-140)
Aliphatic C16-C21	300	268	89		(40-140)
Aliphatic C21-C28	400	366	92		(40-140)
Aliphatic C28-C40	600	602	100		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BSD **Datafile:** FC068298.D

Client ID : PB166863BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	175	58		1.8|	(40-140)	50
Aliphatic C12-C16	200	160	80		1.3|	(40-140)	50
Aliphatic C16-C21	300	268	89		0.03|	(40-140)	50
Aliphatic C21-C28	400	364	91		0.548|	(40-140)	50
Aliphatic C28-C40	600	602	100		0.33|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BS **Datafile:** FC068323.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	6.53	65		(40-140)
Aliphatic C12-C16	6.7	5.75	86		(40-140)
Aliphatic C16-C21	10	9.57	96		(40-140)
Aliphatic C21-C28	13.3	12.9	97		(40-140)
Aliphatic C28-C40	20.0	21.3	106		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BSD **Datafile:** FC068324.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	6.56	66		0.37|	(40-140)	50
Aliphatic C12-C16	6.7	5.75	86		0|	(40-140)	50
Aliphatic C16-C21	10	9.54	96		0.352|	(40-140)	50
Aliphatic C21-C28	13.3	12.9	97		0.01|	(40-140)	50
Aliphatic C28-C40	20.0	21.4	107		1|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BS **Datafile:** FD049102.D

Client ID : PB166863BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	165	82		(40-140)
Aromatic C12-C16	300	410	136		(40-140)
Aromatic C16-C21	500	583	116		(40-140)
Aromatic C21-C36	800	905	113		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BSD **Datafile:** FD049103.D

Client ID : PB166863BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	165	82		0|	(40-140)	50
Aromatic C12-C16	300	302	100		29.9|	(40-140)	50
Aromatic C16-C21	500	581	116		0.17|	(40-140)	50
Aromatic C21-C36	800	909	113		0.55|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BS **Datafile:** FD049131.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	6.49	97		(40-140)
Aromatic C12-C16	10	11.1	111		(40-140)
Aromatic C16-C21	16.7	21.5	129		(40-140)
Aromatic C21-C36	26.6	34.3	128		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BSD **Datafile:** FD049132.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	6.56	98		1.1|	(40-140)	50
Aromatic C12-C16	10	11.3	113		1.9|	(40-140)	50
Aromatic C16-C21	16.7	21.8	130		1.5|	(40-140)	50
Aromatic C21-C36	26.6	34.9	130		2.3|	(40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB166863BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Instrument ID: FID_C Lab Sample ID: PB166863BL

Matrix: (soil/water) Water Date Extracted: 2/25/2025 8:43:00 A

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB166863BS	PB166863BS
PB166863BSD	PB166863BSD
FB02222025	Q1415-05
B-173-GW01	Q1415-06

COMMENTS:

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB166923BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Instrument ID: FID_C Lab Sample ID: PB166923BL

Matrix: (soil/water) Solid Date Extracted: 2/27/2025 1:10:00 P

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB166923BS	PB166923BS
PB166923BSD	PB166923BSD
B-163-SB01	Q1415-01
B-172-SB01	Q1415-02
B-163-SB02	Q1415-03
B-172-SB02	Q1415-04

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BL	SDG No.:	Q1415
Lab Sample ID:	PB166863BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 15:47	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068296.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068296.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068296.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068296.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068296.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD049101.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD049101.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD049101.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD049101.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BL	SDG No.:	Q1415
Lab Sample ID:	PB166863BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068296.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.0		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166863BL	Acq On:	25 Feb 2025 15:47
Client Sample ID:	PB166863BL	Operator:	YP/AJ
Data file:	FC068296.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	0	0	300	ug/ml
Aliphatic C12-C16	6.372	9.756	0	0	200	ug/ml
Aliphatic C16-C21	9.757	13.110	0	0	300	ug/ml
Aliphatic C21-C28	13.111	16.764	0	0	400	ug/ml
Aliphatic C28-C40	16.765	21.571	0	0	600	ug/ml
Aliphatic EPH	3.105	21.571	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.844	12.844	3600606	32.01		ug/ml
Aliphatic C9-C28	3.105	16.764	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BL	SDG No.:	Q1415
Lab Sample ID:	PB166863BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049101.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.2		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.5		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.7		40 - 140	95%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166863BL	Acq On:	25 Feb 2025 15:47
Client Sample ID:	PB166863BL	Operator:	YP/AJ
Data file:	FD049101.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	0	0	200	ug/ml
Aromatic C12-C16	5.794	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.660	0	0	500	ug/ml
Aromatic C21-C36	12.661	18.070	0	0	800	ug/ml
Aromatic EPH	4.075	18.070	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.348	7.348	8047938	56.24		ug/ml
2-Flurobiphenyl (SURR)	8.198	8.198	4963166	56.46		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	7709546	47.66		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1415
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 11:00	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC068322.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC068322.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC068322.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC068322.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC068322.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD049130.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD049130.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD049130.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD049130.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.00	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1415
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068322.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.80	U	1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		41.6		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FC068322.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	0	0	300	ug/ml
Aliphatic C12-C16	6.370	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.107	0	0	300	ug/ml
Aliphatic C21-C28	13.108	16.761	0	0	400	ug/ml
Aliphatic C28-C40	16.762	21.565	0	0	600	ug/ml
Aliphatic EPH	3.104	21.565	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4680251	41.61		ug/ml
Aliphatic C9-C28	3.104	16.761	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1415
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049130.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21		0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36		2.00	U	2.00	2.66	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		56.0		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		57.8		40 - 140	116%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		49.7		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FD049130.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.073	0	0	800	ug/ml
Aromatic EPH	4.076	18.073	0	0		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8041222	49.71		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8010402	55.97		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5081253	57.8		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BS	SDG No.:	Q1415
Lab Sample ID:	PB166863BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 16:23	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	172		1	5.76	30.0	ug/l	FC068297.D
Aliphatic C12-C16	Aliphatic C12-C16	158		1	3.61	20.0	ug/l	FC068297.D
Aliphatic C16-C21	Aliphatic C16-C21	268		1	5.14	30.0	ug/l	FC068297.D
Aliphatic C21-C28	Aliphatic C21-C28	366		1	8.97	40.0	ug/l	FC068297.D
Aliphatic C28-C40	Aliphatic C28-C40	602		1	17.0	60.0	ug/l	FC068297.D
Aromatic C10-C12	Aromatic C10-C12	165		1	3.32	20.0	ug/l	FD049102.D
Aromatic C12-C16	Aromatic C12-C16	410		1	3.69	30.0	ug/l	FD049102.D
Aromatic C16-C21	Aromatic C16-C21	583		1	12.7	50.0	ug/l	FD049102.D
Aromatic C21-C36	Aromatic C21-C36	905		1	25.2	80.0	ug/l	FD049102.D
Total AliphaticEPH	Total AliphaticEPH	1570			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2060			44.9	180	ug/l	
Total EPH	Total EPH	3630			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BS	SDG No.:	Q1415
Lab Sample ID:	PB166863BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068297.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	172		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	158		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	268		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	366		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	602		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.7		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166863BS	Acq On:	25 Feb 2025 16:23
Client Sample ID:	PB166863BS	Operator:	YP/AJ
Data file:	FC068297.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	12187522	86.415	300	ug/ml
Aliphatic C12-C16	6.372	9.756	10850504	79.401	200	ug/ml
Aliphatic C16-C21	9.757	13.110	17698581	134.456	300	ug/ml
Aliphatic C21-C28	13.111	16.764	22476976	183.199	400	ug/ml
Aliphatic C28-C40	16.765	21.571	30982185	301.247	600	ug/ml
Aliphatic EPH	3.105	21.571	94195768	784.718		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.843	12.843	4574944	40.68		ug/ml
Aliphatic C9-C28	3.105	16.764	63213583	483.471	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BS	SDG No.:	Q1415
Lab Sample ID:	PB166863BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049102.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	165		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	410		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	583		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	905		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.9		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.8		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.6		40 - 140	103%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166863BS	Acq On:	25 Feb 2025 16:23
Client Sample ID:	PB166863BS	Operator:	YP/AJ
Data file:	FD049102.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	13152647	82.71	200	ug/ml
Aromatic C12-C16	5.794	8.396	33023857	205.199	300	ug/ml
Aromatic C16-C21	8.397	12.660	44739297	291.729	500	ug/ml
Aromatic C21-C36	12.661	18.070	64821667	452.935	800	ug/ml
Aromatic EPH	4.075	18.070	155737468	1030		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8578252	59.94		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4994005	56.81		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8345069	51.58		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BS	SDG No.:	Q1415
Lab Sample ID:	PB166923BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 11:37	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.53		1	0.38	1.00	mg/kg	FC068323.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068323.D
Aliphatic C16-C21	Aliphatic C16-C21	9.57		1	0.30	1.00	mg/kg	FC068323.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068323.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	1.80	2.00	mg/kg	FC068323.D
Aromatic C10-C12	Aromatic C10-C12	6.49		1	0.30	0.67	mg/kg	FD049131.D
Aromatic C12-C16	Aromatic C12-C16	11.1		1	0.34	1.00	mg/kg	FD049131.D
Aromatic C16-C21	Aromatic C16-C21	21.5		1	0.96	1.67	mg/kg	FD049131.D
Aromatic C21-C36	Aromatic C21-C36	34.3		1	2.00	2.66	mg/kg	FD049131.D
Total AliphaticEPH	Total AliphaticEPH	56.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	73.4			3.60	6.00	mg/kg	
Total EPH	Total EPH	129			7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BS	SDG No.:	Q1415
Lab Sample ID:	PB166923BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068323.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		6.53		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		9.57		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		21.3		1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FC068323.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	13831446	98.071	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11804868	86.385	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18912877	143.681	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23798182	193.968	400	ug/ml
Aliphatic C28-C40	16.762	21.565	32890476	319.802	600	ug/ml
Aliphatic EPH	3.104	21.565	101237849	841.906		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4376930	38.91		ug/ml
Aliphatic C9-C28	3.104	16.761	68347373	522.105	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BS	SDG No.:	Q1415
Lab Sample ID:	PB166923BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049131.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.49		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.1		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.5		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.3		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.3		40 - 140	117%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	61.9		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.0		40 - 140	106%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FD049131.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15506186	97.511	200	ug/ml
Aromatic C12-C16	5.795	8.396	26811280	166.596	300	ug/ml
Aromatic C16-C21	8.397	12.661	49558614	323.154	500	ug/ml
Aromatic C21-C36	12.662	18.073	73636189	514.525	800	ug/ml
Aromatic EPH	4.076	18.073	165512269	1100		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8337130	58.26		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5441864	61.9		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8579131	53.03		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BSD	SDG No.:	Q1415
Lab Sample ID:	PB166863BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 16:59	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	175		1	5.76	30.0	ug/l	FC068298.D
Aliphatic C12-C16	Aliphatic C12-C16	160		1	3.61	20.0	ug/l	FC068298.D
Aliphatic C16-C21	Aliphatic C16-C21	268		1	5.14	30.0	ug/l	FC068298.D
Aliphatic C21-C28	Aliphatic C21-C28	364		1	8.97	40.0	ug/l	FC068298.D
Aliphatic C28-C40	Aliphatic C28-C40	602		1	17.0	60.0	ug/l	FC068298.D
Aromatic C10-C12	Aromatic C10-C12	165		1	3.32	20.0	ug/l	FD049103.D
Aromatic C12-C16	Aromatic C12-C16	302		1	3.69	30.0	ug/l	FD049103.D
Aromatic C16-C21	Aromatic C16-C21	581		1	12.7	50.0	ug/l	FD049103.D
Aromatic C21-C36	Aromatic C21-C36	909		1	25.2	80.0	ug/l	FD049103.D
Total AliphaticEPH	Total AliphaticEPH	1570			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1960			44.9	180	ug/l	
Total EPH	Total EPH	3530			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BSD	SDG No.:	Q1415
Lab Sample ID:	PB166863BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068298.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	175		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	160		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	268		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	364		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	602		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.0		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166863BSD	Acq On:	25 Feb 2025 16:59
Client Sample ID:	PB166863BSD	Operator:	YP/AJ
Data file:	FC068298.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	12403499	87.946	300	ug/ml
Aliphatic C12-C16	6.372	9.756	10954326	80.161	200	ug/ml
Aliphatic C16-C21	9.757	13.110	17672217	134.256	300	ug/ml
Aliphatic C21-C28	13.111	16.764	22341891	182.098	400	ug/ml
Aliphatic C28-C40	16.765	21.571	31001598	301.436	600	ug/ml
Aliphatic EPH	3.105	21.571	94373531	785.897		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.843	12.843	4496924	39.98		ug/ml
Aliphatic C9-C28	3.105	16.764	63371933	484.461	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166863BSD		SDG No.:	Q1415	
Lab Sample ID:	PB166863BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049103.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	165		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	302		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	581		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	909		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.8		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.6		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.1		40 - 140	102%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166863BSD	Acq On:	25 Feb 2025 16:59
Client Sample ID:	PB166863BSD	Operator:	YP/AJ
Data file:	FD049103.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	13160296	82.758	200	ug/ml
Aromatic C12-C16	5.794	8.396	24332513	151.194	300	ug/ml
Aromatic C16-C21	8.397	12.660	44578557	290.68	500	ug/ml
Aromatic C21-C36	12.661	18.070	65092191	454.825	800	ug/ml
Aromatic EPH	4.075	18.070	147163557	979.458		ug/ml
2-Bromonaphthalene (SURR)	7.354	7.354	8562419	59.83		ug/ml
2-Flurobiphenyl (SURR)	8.204	8.204	4975359	56.59		ug/ml
ortho-Terphenyl (SURR)	11.239	11.239	8267824	51.11		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1415
Lab Sample ID:	PB166923BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 12:13	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.56		1	0.38	1.00	mg/kg	FC068324.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068324.D
Aliphatic C16-C21	Aliphatic C16-C21	9.54		1	0.30	1.00	mg/kg	FC068324.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068324.D
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.80	2.00	mg/kg	FC068324.D
Aromatic C10-C12	Aromatic C10-C12	6.56		1	0.30	0.67	mg/kg	FD049132.D
Aromatic C12-C16	Aromatic C12-C16	11.3		1	0.34	1.00	mg/kg	FD049132.D
Aromatic C16-C21	Aromatic C16-C21	21.8		1	0.96	1.67	mg/kg	FD049132.D
Aromatic C21-C36	Aromatic C21-C36	34.9		1	2.00	2.66	mg/kg	FD049132.D
Total AliphaticEPH	Total AliphaticEPH	56.1			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	74.6			3.60	6.00	mg/kg	
Total EPH	Total EPH	131			7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1415
Lab Sample ID:	PB166923BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068324.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.56		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.54		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FC068324.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	13889956	98.486	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11796061	86.32	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18839655	143.125	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23724700	193.369	400	ug/ml
Aliphatic C28-C40	16.762	21.565	33036052	321.217	600	ug/ml
Aliphatic EPH	3.104	21.565	101286424	842.517		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4356774	38.74		ug/ml
Aliphatic C9-C28	3.104	16.761	68250372	521.3	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1415
Lab Sample ID:	PB166923BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049132.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.56		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.3		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.8		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.9		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.0		40 - 140	126%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.6		40 - 140	107%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FD049132.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15663141	98.498	200	ug/ml
Aromatic C12-C16	5.795	8.396	27228831	169.191	300	ug/ml
Aromatic C16-C21	8.397	12.661	50286158	327.898	500	ug/ml
Aromatic C21-C36	12.662	18.073	74965222	523.812	800	ug/ml
Aromatic EPH	4.076	18.073	168143352	1120		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8675284	53.63		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8444315	59.01		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5539761	63.01		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068334.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		9.70		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		9.05		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.6		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		19.4		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		34.1		2.55	2.84	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FC068334.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	14464917	102.562	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13068443	95.631	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20310392	154.298	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25151936	205.002	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37089980	360.634	600	ug/ml
Aliphatic EPH	3.104	21.565	110085668	918.128		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	3447568	30.65		ug/ml
Aliphatic C9-C28	3.104	16.761	72995688	557.493	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049142.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.80		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	17.2		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	35.7		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	57.2		2.84	3.78	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	62.2		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.3		40 - 140	67%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FD049142.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	16467986	103.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	29311275	182.13	300	ug/ml
Aromatic C16-C21	8.397	12.661	57903456	377.567	500	ug/ml
Aromatic C21-C36	12.662	18.073	86473438	604.224	800	ug/ml
Aromatic EPH	4.076	18.073	190156155	1270		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8441841	58.99		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5467908	62.2		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5392113	33.33		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068335.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	9.71		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	9.10		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.7		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	19.6		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.6		2.56	2.84	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.3		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FC068335.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	14461616	102.539	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13124094	96.038	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20440502	155.287	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25406827	207.079	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37555991	365.166	600	ug/ml
Aliphatic EPH	3.104	21.565	110989030	926.109		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.838	12.838	3629508	32.27		ug/ml
Aliphatic C9-C28	3.104	16.761	73433039	560.943	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049143.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		9.34		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16		16.4		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21		34.2		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36		55.5		2.84	3.79	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		55.9		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		59.1		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		32.0		40 - 140	64%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FD049143.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15672874	98.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	27922630	173.502	300	ug/ml
Aromatic C16-C21	8.397	12.661	55344709	360.883	500	ug/ml
Aromatic C21-C36	12.662	18.073	83844627	585.856	800	ug/ml
Aromatic EPH	4.076	18.073	182784840	1220		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8004383	55.93		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5197744	59.12		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5182415	32.03		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC021125AL

AreaCount

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	39331006.000	20240186.000	8511519.000	4474674.000	2221877.000	
Aliphatic C12-C16	25563872.000	13091029.000	5472087.000	2866719.000	1444048.000	
Aliphatic C16-C21	36707935.000	18751121.000	7907675.000	4144581.000	2112599.000	
Aliphatic C21-C28	45593595.000	23234194.000	9834944.000	5144532.000	2635031.000	
Aliphatic C28-C40	56736862.000	29009865.000	12324513.000	6514067.000	3350978.000	
Aliphatic EPH	203933270.000	104326395.000	44050738.000	23144573.000	11764533.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	141035.5019998	5.636				
Aliphatic C12-C16	136654.515	5.375				
Aliphatic C16-C21	131630.8946664	6.092				
Aliphatic C21-C28	122691.3215	6.255				
Aliphatic C28-C40	102846.462333	7.171				
Aliphatic EPH	122175.1266664	6.234				

Concentration

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	131103.353333	134934.573333	141858.650000	149155.800000	148125.133333	
Aliphatic C12-C16	127819.360000	130910.290000	136802.175000	143335.950000	144404.800000	
Aliphatic C16-C21	122359.783333	125007.473333	131794.583333	138152.700000	140839.933333	

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Inital Calibration Report for SequenceID : FC021125AL

Aliphatic C21-C28	113983.987500	116170.970000	122936.800000	128613.300000	131751.550000	
Aliphatic C28-C40	94561.436666	96699.550000	102704.275000	108567.783333	111699.266666	
Aliphatic EPH	113296.261111	115918.216666	122363.161111	128580.961111	130717.033333	

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Inital Calibration Report for SequenceID : FD021125AR

AreaCount

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	30133782.000	15194817.000	6263156.000	3318077.000	1700032.000	
Aromatic C12-C16	44977690.000	22823722.000	9507721.000	5041964.000	2641021.000	
Aromatic C16-C21	58435647.000	29734390.000	12145436.000	6295751.000	3256475.000	
Aromatic C21-C36	121981098.000	62220992.000	25499877.000	13225172.000	6892110.000	
Aromatic EPH	255528217.000	129973921.000	53416190.000	27880964.000	14489638.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	159020.606	5.389				
Aromatic C12-C16	160935.8659994	6.836				
Aromatic C16-C21	153359.3085	4.411				
Aromatic C21-C36	143114.7526664	4.923				
Aromatic EPH	150128.8232216	5.194				

Concentration

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	150668.910000	151948.170000	156578.900000	165903.850000	170003.200000	
Aromatic C12-C16	149925.633333	152158.146666	158462.016666	168065.466666	176068.066666	
Aromatic C16-C21	146089.117500	148671.950000	151817.950000	157393.775000	162823.750000	
Aromatic C21-C36	135534.553333	138268.871111	141665.983333	146946.355555	153158.000000	
Aromatic EPH	141960.120555	144415.467777	148378.305555	154894.244444	160995.977777	

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Continuing Calibration Report for SequenceID : FC022525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068295.D**						
Aliphatic C9-C12	7540145.000	60.000	3.105	6.371	125669.083	141035.502	10.895
Aliphatic C12-C16	4890516.000	40.000	6.372	9.756	122262.900	136654.515	10.531
Aliphatic C16-C21	7157687.000	60.000	9.757	13.110	119294.783	131630.895	9.372
Aliphatic C21-C28	9437216.000	80.000	13.111	16.764	117965.200	122691.322	3.852
Aliphatic C28-C40	12705875.000	120.000	16.765	21.571	105882.292	102846.462	-2.952
Aliphatic EPH	41731439.000	360.000	3.105	21.571	115920.664	122175.127	5.119

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	25 Feb 2025 11:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068295.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.105	6.371	7540145.000	60.000	ug/ml
Aliphatic C12-C16	6.372	9.756	4890516.000	40.000	ug/ml
Aliphatic C16-C21	9.757	13.110	7157687.000	60.000	ug/ml
Aliphatic C21-C28	13.111	16.764	9437216.000	80.000	ug/ml
Aliphatic C28-C40	16.765	21.571	12705875.000	120.000	ug/ml
Aliphatic EPH	3.105	21.571	41731439.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC022525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068302.D**						
Aliphatic C9-C12	8513932.000	60.000	3.105	6.371	141898.867	141035.502	-0.612
Aliphatic C12-C16	5493256.000	40.000	6.372	9.756	137331.400	136654.515	-0.495
Aliphatic C16-C21	7880344.000	60.000	9.757	13.110	131339.067	131630.895	0.222
Aliphatic C21-C28	9861403.000	80.000	13.111	16.764	123267.538	122691.322	-0.470
Aliphatic C28-C40	12588661.000	120.000	16.765	21.571	104905.508	102846.462	-2.002
Aliphatic EPH	44337596.000	360.000	3.105	21.571	123159.989	122175.127	-0.806

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	25 Feb 2025 19:26
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068302.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.105	6.371	8513932.000	60.000	ug/ml
Aliphatic C12-C16	6.372	9.756	5493256.000	40.000	ug/ml
Aliphatic C16-C21	9.757	13.110	7880344.000	60.000	ug/ml
Aliphatic C21-C28	13.111	16.764	9861403.000	80.000	ug/ml
Aliphatic C28-C40	16.765	21.571	12588661.000	120.000	ug/ml
Aliphatic EPH	3.105	21.571	44337596.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068321.D**						
Aliphatic C9-C12	8795568.000	60.000	3.104	6.369	146592.800	141035.502	-3.940
Aliphatic C12-C16	5630378.000	40.000	6.370	9.754	140759.450	136654.515	-3.004
Aliphatic C16-C21	8123361.000	60.000	9.755	13.107	135389.350	131630.895	-2.855
Aliphatic C21-C28	10243894.000	80.000	13.108	16.761	128048.675	122691.322	-4.367
Aliphatic C28-C40	13204528.000	120.000	16.762	21.565	110037.733	102846.462	-6.992
Aliphatic EPH	45997729.000	360.000	3.104	21.565	127771.469	122175.127	-4.581

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068321.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8795568.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5630378.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	8123361.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	10243894.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13204528.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45997729.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068331.D**						
Aliphatic C9-C12	8595776.000	60.000	3.104	6.369	143262.933	141035.502	-1.579
Aliphatic C12-C16	5515542.000	40.000	6.370	9.754	137888.550	136654.515	-0.903
Aliphatic C16-C21	7931958.000	60.000	9.755	13.107	132199.300	131630.895	-0.432
Aliphatic C21-C28	9960510.000	80.000	13.108	16.761	124506.375	122691.322	-1.479
Aliphatic C28-C40	13030922.000	120.000	16.762	21.565	108591.017	102846.462	-5.586
Aliphatic EPH	45034708.000	360.000	3.104	21.565	125096.411	122175.127	-2.391

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068331.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8595776.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5515542.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7931958.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9960510.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13030922.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45034708.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068341.D**						
Aliphatic C9-C12	8509686.000	60.000	3.104	6.369	141828.100	141035.502	-0.562
Aliphatic C12-C16	5481187.000	40.000	6.370	9.754	137029.675	136654.515	-0.275
Aliphatic C16-C21	7916038.000	60.000	9.755	13.107	131933.967	131630.895	-0.230
Aliphatic C21-C28	9928727.000	80.000	13.108	16.761	124109.088	122691.322	-1.156
Aliphatic C28-C40	13203681.000	120.000	16.762	21.565	110030.675	102846.462	-6.985
Aliphatic EPH	45039319.000	360.000	3.104	21.565	125109.219	122175.127	-2.402

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068341.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8509686.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5481187.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7916038.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9928727.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13203681.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45039319.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD022525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049100.D**						
Aromatic C16-C21	12146265.000	80.000	8.397	12.660	151828.313	153359.309	0.998
Aromatic C21-C36	26130774.000	180.000	12.661	18.070	145170.967	143114.753	-1.437
Aromatic EPH	54757193.000	360.000	4.075	18.070	152103.314	150128.823	-1.315
Aromatic C10-C12	6565172.000	40.000	4.075	5.793	164129.300	159020.606	-3.213
Aromatic C12-C16	9914982.000	60.000	5.794	8.396	165249.700	160935.866	-2.680

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	25 Feb 2025 11:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049100.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	6565172.000	40.000	ug/ml
Aromatic C12-C16	5.794	8.396	9914982.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.660	12146265.000	80.000	ug/ml
Aromatic C21-C36	12.661	18.070	26130774.000	180.000	ug/ml
Aromatic EPH	4.075	18.070	54757193.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD022525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049107.D**						
Aromatic C16-C21	12153015.000	80.000	8.397	12.660	151912.688	153359.309	0.943
Aromatic C21-C36	25896026.000	180.000	12.661	18.070	143866.811	143114.753	-0.525
Aromatic EPH	54443876.000	360.000	4.075	18.070	151232.989	150128.823	-0.735
Aromatic C10-C12	6541813.000	40.000	4.075	5.793	163545.325	159020.606	-2.845
Aromatic C12-C16	9853022.000	60.000	5.794	8.396	164217.033	160935.866	-2.039

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	25 Feb 2025 19:26
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049107.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	6541813.000	40.000	ug/ml
Aromatic C12-C16	5.794	8.396	9853022.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.660	12153015.000	80.000	ug/ml
Aromatic C21-C36	12.661	18.070	25896026.000	180.000	ug/ml
Aromatic EPH	4.075	18.070	54443876.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049129.D**						
Aromatic C10-C12	6160252.000	40.000	4.076	5.794	154006.300	159020.606	3.153
Aromatic C12-C16	9402232.000	60.000	5.795	8.396	156703.867	160935.866	2.630
Aromatic C16-C21	11641914.000	80.000	8.397	12.661	145523.925	153359.309	5.109
Aromatic C21-C36	23657575.000	180.000	12.662	18.073	131430.972	143114.753	8.164
Aromatic EPH	50861973.000	360.000	4.076	18.073	141283.258	150128.823	5.892

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049129.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6160252.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	9402232.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	11641914.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	23657575.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	50861973.000	360.000	ug/ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049139.D**						
Aromatic C10-C12	6813477.000	40.000	4.076	5.794	170336.925	159020.606	-7.116
Aromatic C12-C16	10472510.000	60.000	5.795	8.396	174541.833	160935.866	-8.454
Aromatic C16-C21	13024891.000	80.000	8.397	12.661	162811.138	153359.309	-6.163
Aromatic C21-C36	26617558.000	180.000	12.662	18.073	147875.322	143114.753	-3.326
Aromatic EPH	56928436.000	360.000	4.076	18.073	158134.544	150128.823	-5.333

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049139.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6813477.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10472510.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13024891.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	26617558.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	56928436.000	360.000	ug/ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049149.D**						
Aromatic C10-C12	6973708.000	40.000	4.076	5.794	174342.700	159020.606	-9.635
Aromatic C12-C16	10519197.000	60.000	5.795	8.396	175319.950	160935.866	-8.938
Aromatic C16-C21	13182289.000	80.000	8.397	12.661	164778.613	153359.309	-7.446
Aromatic C21-C36	27715585.000	180.000	12.662	18.073	153975.472	143114.753	-7.589
Aromatic EPH	58390779.000	360.000	4.076	18.073	162196.608	150128.823	-8.038

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049149.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6973708.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10519197.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13182289.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	27715585.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	58390779.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068325.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.841	5678401	50.486 ug/ml
Spiked Amount 50.000		Recovery = 100.97%	
Target Compounds			

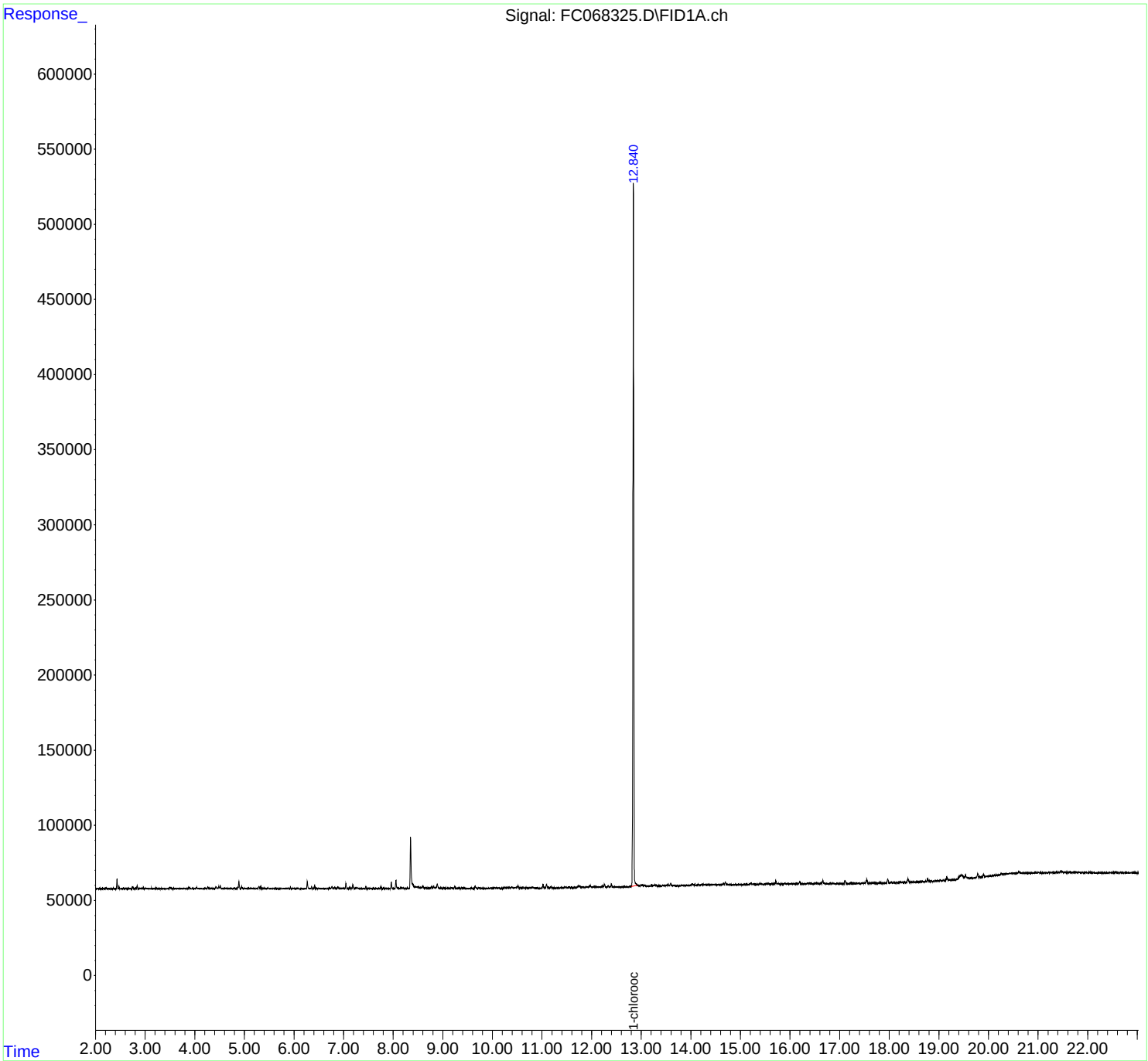
(f)=RT Delta > 1/2 Window (m)=manual int.

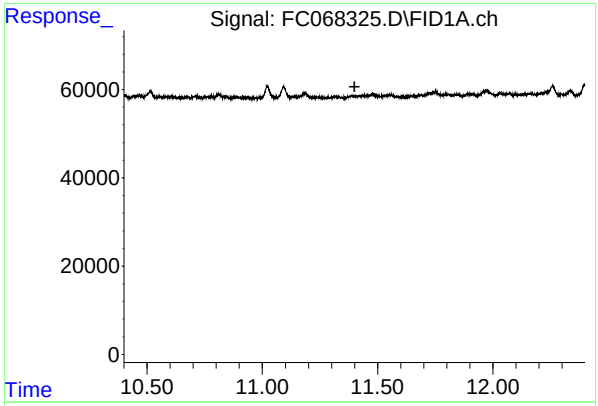
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068325.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

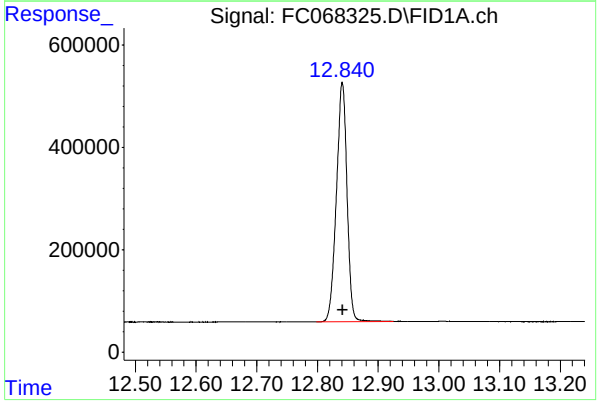




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-163-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 5678401
Conc: 50.49 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068325.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:50
Sample : Q1415-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.359	2.304	2.411	BV	613	8860	0.15%	0.063%
2	2.432	2.411	2.454	VV	6596	51062	0.88%	0.364%
3	2.473	2.454	2.508	VV	934	9696	0.17%	0.069%
4	2.561	2.508	2.571	VV	402	4731	0.08%	0.034%
5	2.592	2.571	2.640	VV	269	4267	0.07%	0.030%
6	2.655	2.640	2.691	VV	372	5174	0.09%	0.037%
7	2.699	2.691	2.721	VV	113	1759	0.03%	0.013%
8	2.743	2.721	2.771	VV	978	15408	0.27%	0.110%
9	2.788	2.771	2.821	VV	417	6525	0.11%	0.047%
10	2.839	2.821	2.866	VV	2239	21089	0.36%	0.150%
11	2.918	2.866	2.938	VV	343	7582	0.13%	0.054%
12	2.961	2.938	2.984	VV	809	10077	0.17%	0.072%
13	2.995	2.984	3.010	VV	178	2391	0.04%	0.017%
14	3.027	3.010	3.036	VV	210	2322	0.04%	0.017%
15	3.049	3.036	3.071	VV	193	2623	0.05%	0.019%
16	3.082	3.071	3.088	VV	153	1066	0.02%	0.008%
17	3.129	3.088	3.151	VV	240	4358	0.08%	0.031%
18	3.163	3.151	3.181	VV	165	1999	0.03%	0.014%
19	3.208	3.181	3.278	VV	476	10240	0.18%	0.073%
20	3.301	3.278	3.330	VV	181	4462	0.08%	0.032%
21	3.341	3.330	3.358	VV	276	2494	0.04%	0.018%
22	3.369	3.358	3.454	VV	148	7097	0.12%	0.051%
23	3.466	3.454	3.470	VV	238	1643	0.03%	0.012%
24	3.499	3.470	3.544	VV	1329	20131	0.35%	0.144%
25	3.573	3.544	3.608	VV	387	6771	0.12%	0.048%
26	3.615	3.608	3.655	VV	209	3621	0.06%	0.026%
27	3.693	3.655	3.744	VV	211	7525	0.13%	0.054%
28	3.788	3.744	3.824	VV	235	6464	0.11%	0.046%
29	3.865	3.824	3.877	VV	507	7119	0.12%	0.051%
30	3.894	3.877	3.948	VV	1124	17405	0.30%	0.124%
31	3.960	3.948	3.988	VV	381	4741	0.08%	0.034%
32	4.040	3.988	4.101	VV	1017	21269	0.37%	0.152%
33	4.175	4.101	4.209	VV	240	10987	0.19%	0.078%
34	4.214	4.209	4.234	VV	272	2922	0.05%	0.021%
35	4.262	4.234	4.314	VV	1335	24813	0.43%	0.177%
36	4.328	4.314	4.343	VV	288	4129	0.07%	0.029%

rteres

37	4.374	4.343	4.394	VV	512	9130	0.16%	0.065%
38	4.428	4.394	4.447	VV	1495	20109	0.35%	0.143%
39	4.484	4.447	4.498	VV	1413	21110	0.37%	0.151%
40	4.513	4.498	4.562	VV	2316	30229	0.52%	0.216%
41	4.583	4.562	4.598	VV	359	6459	0.11%	0.046%
42	4.634	4.598	4.650	VV	382	9576	0.17%	0.068%
43	4.660	4.650	4.688	VV	332	6416	0.11%	0.046%
44	4.699	4.688	4.708	VV	246	2601	0.05%	0.019%
45	4.724	4.708	4.761	VV	455	6937	0.12%	0.049%
46	4.772	4.761	4.791	VV	174	2457	0.04%	0.018%
47	4.811	4.791	4.828	VV	502	7391	0.13%	0.053%
48	4.890	4.828	4.919	VV	4948	69081	1.20%	0.493%
49	4.945	4.919	4.980	VV	1244	20503	0.35%	0.146%
50	4.998	4.980	5.041	VV	482	8684	0.15%	0.062%
51	5.084	5.041	5.104	VV	478	10772	0.19%	0.077%
52	5.114	5.104	5.140	VV	353	5766	0.10%	0.041%
53	5.150	5.140	5.163	VV	351	3442	0.06%	0.025%
54	5.180	5.163	5.192	VV	331	4416	0.08%	0.031%
55	5.200	5.192	5.236	VV	270	5886	0.10%	0.042%
56	5.246	5.236	5.251	VV	237	1884	0.03%	0.013%
57	5.258	5.251	5.274	VV	301	3084	0.05%	0.022%
58	5.293	5.274	5.315	VV	1687	21986	0.38%	0.157%
59	5.331	5.315	5.371	VV	1817	23771	0.41%	0.170%
60	5.388	5.371	5.441	VV	630	11889	0.21%	0.085%
61	5.467	5.441	5.503	VV	468	10938	0.19%	0.078%
62	5.512	5.503	5.524	VV	130	1467	0.03%	0.010%
63	5.582	5.524	5.628	VV	515	13647	0.24%	0.097%
64	5.635	5.628	5.664	VV	241	3592	0.06%	0.026%
65	5.678	5.664	5.689	VV	183	2330	0.04%	0.017%
66	5.695	5.689	5.727	VV	177	2148	0.04%	0.015%
67	5.745	5.727	5.763	VV	212	2648	0.05%	0.019%
68	5.792	5.763	5.804	VV	203	3310	0.06%	0.024%
69	5.840	5.804	5.868	VV	449	9869	0.17%	0.070%
70	5.885	5.868	5.914	VV	501	8218	0.14%	0.059%
71	5.930	5.914	5.967	VV	931	12578	0.22%	0.090%
72	5.992	5.967	6.024	VV	458	8466	0.15%	0.060%
73	6.059	6.024	6.088	VV	435	9648	0.17%	0.069%
74	6.098	6.088	6.131	VV	156	2803	0.05%	0.020%
75	6.156	6.131	6.191	PV	182	4218	0.07%	0.030%
76	6.269	6.191	6.330	VV	4874	63897	1.11%	0.456%
77	6.352	6.330	6.374	VV	923	11248	0.19%	0.080%
78	6.417	6.374	6.438	VV	1484	24160	0.42%	0.172%
79	6.450	6.438	6.469	VV	576	6171	0.11%	0.044%
80	6.490	6.469	6.511	VV	733	7802	0.13%	0.056%
81	6.541	6.511	6.566	VV	185	3391	0.06%	0.024%
82	6.589	6.566	6.625	VV	221	5133	0.09%	0.037%
83	6.641	6.625	6.652	VV	193	2687	0.05%	0.019%
84	6.662	6.652	6.684	VV	222	2802	0.05%	0.020%
85	6.709	6.684	6.734	VV	830	10266	0.18%	0.073%
86	6.761	6.734	6.794	VV	1115	20949	0.36%	0.149%
87	6.821	6.794	6.851	VV	850	19219	0.33%	0.137%
88	6.887	6.851	6.909	VV	1424	23279	0.40%	0.166%
89	6.927	6.909	6.946	VV	377	5156	0.09%	0.037%

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90	6.968	6.946	6.981	VV	491	6504	0.11%	0.046%
91	6.990	6.981	7.011	VV	409	4994	0.09%	0.036%
92	7.048	7.011	7.081	VV	3509	41492	0.72%	0.296%
93	7.107	7.081	7.141	VV	510	12722	0.22%	0.091%
94	7.155	7.141	7.168	VV	708	8120	0.14%	0.058%
95	7.189	7.168	7.231	VV	2906	39034	0.68%	0.278%
96	7.252	7.231	7.265	VV	606	9396	0.16%	0.067%
97	7.279	7.265	7.305	VV	753	9689	0.17%	0.069%
98	7.315	7.305	7.334	VV	254	3253	0.06%	0.023%
99	7.358	7.334	7.386	VV	266	5613	0.10%	0.040%
100	7.397	7.386	7.426	VV	182	3244	0.06%	0.023%
101	7.448	7.426	7.481	PV	1485	16470	0.28%	0.117%
102	7.501	7.481	7.574	VV	383	13462	0.23%	0.096%
103	7.612	7.574	7.629	VV	394	8027	0.14%	0.057%
104	7.641	7.629	7.654	VV	387	4217	0.07%	0.030%
105	7.665	7.654	7.683	VV	337	4030	0.07%	0.029%
106	7.708	7.683	7.728	VV	514	6559	0.11%	0.047%
107	7.753	7.728	7.787	VV	1386	17456	0.30%	0.125%
108	7.809	7.787	7.828	VV	1116	12373	0.21%	0.088%
109	7.844	7.828	7.864	VV	284	4439	0.08%	0.032%
110	7.877	7.864	7.896	VV	494	5610	0.10%	0.040%
111	7.909	7.896	7.937	VV	229	3269	0.06%	0.023%
112	7.963	7.937	8.028	VV	4398	54897	0.95%	0.392%
113	8.056	8.028	8.131	VV	5614	74816	1.29%	0.534%
114	8.162	8.131	8.187	VV	655	16297	0.28%	0.116%
115	8.203	8.187	8.225	VV	566	8679	0.15%	0.062%
116	8.248	8.225	8.270	VV	486	7172	0.12%	0.051%
117	8.288	8.270	8.324	VV	639	8961	0.16%	0.064%
118	8.352	8.324	8.448	VV	34221	527163	9.12%	3.760%
119	8.460	8.448	8.489	VV	1230	27567	0.48%	0.197%
120	8.512	8.489	8.531	VV	1167	26518	0.46%	0.189%
121	8.543	8.531	8.561	VV	1103	16238	0.28%	0.116%
122	8.593	8.561	8.634	VV	1623	41958	0.73%	0.299%
123	8.655	8.634	8.689	VV	740	15193	0.26%	0.108%
124	8.707	8.689	8.733	VV	629	10523	0.18%	0.075%
125	8.773	8.733	8.793	VV	1459	25250	0.44%	0.180%
126	8.812	8.793	8.825	VV	1305	17229	0.30%	0.123%
127	8.833	8.825	8.856	VV	873	13770	0.24%	0.098%
128	8.890	8.856	8.924	VV	3235	60105	1.04%	0.429%
129	8.934	8.924	8.941	VV	315	2620	0.05%	0.019%
130	8.963	8.941	8.984	VV	945	12964	0.22%	0.092%
131	9.012	8.984	9.033	VV	617	9777	0.17%	0.070%
132	9.063	9.033	9.074	VV	322	6041	0.10%	0.043%
133	9.093	9.074	9.141	VV	379	11745	0.20%	0.084%
134	9.177	9.141	9.214	VV	678	17765	0.31%	0.127%
135	9.241	9.214	9.280	VV	1494	23859	0.41%	0.170%
136	9.313	9.280	9.355	VV	341	10048	0.17%	0.072%
137	9.381	9.355	9.410	VV	665	10526	0.18%	0.075%
138	9.434	9.410	9.493	VV	625	12816	0.22%	0.091%
139	9.497	9.493	9.517	VV	196	1926	0.03%	0.014%
140	9.525	9.517	9.551	VV	190	2066	0.04%	0.015%
141	9.575	9.551	9.630	VV	505	10853	0.19%	0.077%

rteres

142	9.653	9.630	9.699	VV	1706	26557	0.46%	0.189%
143	9.724	9.699	9.741	VV	488	9147	0.16%	0.065%
144	9.750	9.741	9.781	VV	418	7603	0.13%	0.054%
145	9.798	9.781	9.847	VV	332	8321	0.14%	0.059%
146	9.868	9.847	9.878	VV	78	1167	0.02%	0.008%
147	9.926	9.878	9.944	PV	306	7277	0.13%	0.052%
148	9.969	9.944	9.991	VV	534	9727	0.17%	0.069%
149	10.002	9.991	10.008	VV	313	2793	0.05%	0.020%
150	10.044	10.008	10.062	VV	654	14312	0.25%	0.102%
151	10.080	10.062	10.101	VV	677	10108	0.17%	0.072%
152	10.126	10.101	10.151	VV	449	10070	0.17%	0.072%
153	10.158	10.151	10.190	VV	401	4957	0.09%	0.035%
154	10.208	10.190	10.218	VV	229	2784	0.05%	0.020%
155	10.250	10.218	10.265	VV	649	9984	0.17%	0.071%
156	10.284	10.265	10.303	VV	526	9798	0.17%	0.070%
157	10.327	10.303	10.350	VV	661	13270	0.23%	0.095%
158	10.389	10.350	10.428	VV	1028	27196	0.47%	0.194%
159	10.469	10.428	10.487	VV	671	20091	0.35%	0.143%
160	10.514	10.487	10.538	VV	1705	28850	0.50%	0.206%
161	10.549	10.538	10.571	VV	394	6463	0.11%	0.046%
162	10.604	10.571	10.628	VV	389	10881	0.19%	0.078%
163	10.673	10.628	10.688	VV	300	8658	0.15%	0.062%
164	10.710	10.688	10.734	VV	493	9265	0.16%	0.066%
165	10.813	10.734	10.834	VV	906	25483	0.44%	0.182%
166	10.843	10.834	10.860	VV	360	3524	0.06%	0.025%
167	10.884	10.860	10.911	PV	249	5178	0.09%	0.037%
168	10.917	10.911	10.929	VV	133	1207	0.02%	0.009%
169	10.937	10.929	10.954	VV	91	1039	0.02%	0.007%
170	10.964	10.954	10.974	VV	94	838	0.01%	0.006%
171	11.022	10.974	11.057	VV	2719	40771	0.71%	0.291%
172	11.092	11.057	11.122	VV	2629	39908	0.69%	0.285%
173	11.139	11.122	11.151	VV	381	5427	0.09%	0.039%
174	11.184	11.151	11.223	VV	1055	20686	0.36%	0.148%
175	11.234	11.223	11.274	VV	173	2931	0.05%	0.021%
176	11.314	11.274	11.351	PV	207	5372	0.09%	0.038%
177	11.447	11.351	11.461	VV	432	21086	0.36%	0.150%
178	11.478	11.461	11.512	VV	762	14643	0.25%	0.104%
179	11.553	11.512	11.621	VV	571	17594	0.30%	0.126%
180	11.686	11.621	11.697	VV	485	12527	0.22%	0.089%
181	11.752	11.697	11.781	VV	1175	37589	0.65%	0.268%
182	11.799	11.781	11.821	VV	598	11681	0.20%	0.083%
183	11.836	11.821	11.874	VV	481	10945	0.19%	0.078%
184	11.891	11.874	11.901	VV	608	7947	0.14%	0.057%
185	11.911	11.901	11.931	VV	564	8079	0.14%	0.058%
186	11.972	11.931	12.014	VV	1355	36262	0.63%	0.259%
187	12.032	12.014	12.054	VV	716	12910	0.22%	0.092%
188	12.070	12.054	12.118	VV	683	15998	0.28%	0.114%
189	12.165	12.118	12.187	VV	562	17682	0.31%	0.126%
190	12.259	12.187	12.311	VV	2252	59733	1.03%	0.426%
191	12.336	12.311	12.368	VV	1204	18787	0.33%	0.134%
192	12.396	12.368	12.418	VV	2473	33484	0.58%	0.239%
193	12.428	12.418	12.447	VV	444	6225	0.11%	0.044%
194	12.461	12.447	12.498	VV	491	10018	0.17%	0.071%

rteres

195	12.512	12.498	12.528	VV	367	4918	0.09%	0.035%
196	12.537	12.528	12.574	VV	315	5098	0.09%	0.036%
197	12.668	12.608	12.704	VV	470	17721	0.31%	0.126%
198	12.718	12.704	12.737	VV	388	5535	0.10%	0.039%
199	12.761	12.737	12.777	VV	575	9046	0.16%	0.065%
200	12.841	12.777	12.982	VV	468001	5779505	100.00%	41.225%
201	13.007	12.982	13.044	VV	1488	38522	0.67%	0.275%
202	13.070	13.044	13.100	VV	1067	29032	0.50%	0.207%
203	13.115	13.100	13.183	VV	681	29127	0.50%	0.208%
204	13.222	13.183	13.251	VV	816	28740	0.50%	0.205%
205	13.285	13.251	13.341	VV	1087	44371	0.77%	0.316%
206	13.353	13.341	13.378	VV	606	11931	0.21%	0.085%
207	13.389	13.378	13.405	VV	575	8869	0.15%	0.063%
208	13.444	13.405	13.482	VV	931	32756	0.57%	0.234%
209	13.502	13.482	13.511	VV	726	11515	0.20%	0.082%
210	13.539	13.511	13.561	VV	1303	27628	0.48%	0.197%
211	13.594	13.561	13.632	VV	2283	48854	0.85%	0.348%
212	13.653	13.632	13.664	VV	744	12210	0.21%	0.087%
213	13.672	13.664	13.712	VV	645	14487	0.25%	0.103%
214	13.722	13.712	13.764	VV	459	11380	0.20%	0.081%
215	13.828	13.764	13.871	VV	800	38343	0.66%	0.274%
216	13.887	13.871	13.911	VV	617	13959	0.24%	0.100%
217	13.919	13.911	13.942	VV	617	10429	0.18%	0.074%
218	13.953	13.942	13.964	VV	608	7250	0.13%	0.052%
219	14.030	13.964	14.109	VV	1786	79026	1.37%	0.564%
220	14.155	14.109	14.194	VV	1177	39498	0.68%	0.282%
221	14.215	14.194	14.264	VV	921	34561	0.60%	0.247%
222	14.275	14.264	14.283	VV	912	9807	0.17%	0.070%
223	14.291	14.283	14.314	VV	936	15360	0.27%	0.110%
224	14.321	14.314	14.334	VV	760	8457	0.15%	0.060%
225	14.361	14.334	14.381	VV	942	23054	0.40%	0.164%
226	14.406	14.381	14.428	VV	942	24472	0.42%	0.175%
227	14.467	14.428	14.487	VV	981	31349	0.54%	0.224%
228	14.502	14.487	14.518	VV	900	15030	0.26%	0.107%
229	14.551	14.518	14.584	VV	966	31330	0.54%	0.223%
230	14.595	14.584	14.625	VV	781	16730	0.29%	0.119%
231	14.653	14.625	14.671	VV	1300	27663	0.48%	0.197%
232	14.694	14.671	14.734	VV	2540	52740	0.91%	0.376%
233	14.750	14.734	14.788	VV	868	23588	0.41%	0.168%
234	14.801	14.788	14.851	VV	616	18287	0.32%	0.130%
235	14.894	14.851	15.018	VV	820	63696	1.10%	0.454%
236	15.073	15.018	15.088	VV	654	24336	0.42%	0.174%
237	15.114	15.088	15.152	VV	842	26968	0.47%	0.192%
238	15.213	15.152	15.241	VV	1573	45777	0.79%	0.327%
239	15.263	15.241	15.321	VV	945	32751	0.57%	0.234%
240	15.338	15.321	15.358	VV	587	12342	0.21%	0.088%
241	15.362	15.358	15.371	VV	598	4396	0.08%	0.031%
242	15.394	15.371	15.471	VV	861	41244	0.71%	0.294%
243	15.479	15.471	15.487	VV	602	5351	0.09%	0.038%
244	15.531	15.487	15.544	VV	932	27024	0.47%	0.193%
245	15.568	15.544	15.652	VV	952	48374	0.84%	0.345%
246	15.673	15.652	15.686	VV	953	16552	0.29%	0.118%

rteres

247	15.713	15.686	15.739	VV	2535	45530	0.79%	0.325%
248	15.760	15.739	15.821	VV	1045	32403	0.56%	0.231%
249	15.900	15.821	15.920	VV	813	32509	0.56%	0.232%
250	15.931	15.920	15.949	VV	633	9804	0.17%	0.070%
251	15.958	15.949	15.979	VV	521	8394	0.15%	0.060%
252	16.032	15.979	16.062	VV	748	29982	0.52%	0.214%
253	16.068	16.062	16.129	VV	661	21465	0.37%	0.153%
254	16.154	16.129	16.168	VV	556	11565	0.20%	0.082%
255	16.194	16.168	16.222	VV	1723	32415	0.56%	0.231%
256	16.235	16.222	16.278	VV	777	19662	0.34%	0.140%
257	16.288	16.278	16.324	VV	559	12127	0.21%	0.087%
258	16.352	16.324	16.408	VV	787	30765	0.53%	0.219%
259	16.418	16.408	16.461	VV	802	18286	0.32%	0.130%
260	16.502	16.461	16.518	VV	677	19080	0.33%	0.136%
261	16.526	16.518	16.534	VV	661	6270	0.11%	0.045%
262	16.538	16.534	16.569	VV	693	12158	0.21%	0.087%
263	16.579	16.569	16.599	VV	570	8985	0.16%	0.064%
264	16.627	16.599	16.637	VV	885	13870	0.24%	0.099%
265	16.661	16.637	16.735	VV	2594	54668	0.95%	0.390%
266	16.768	16.735	16.787	VV	408	10397	0.18%	0.074%
267	16.815	16.787	16.858	VV	562	17387	0.30%	0.124%
268	16.873	16.858	16.904	VV	546	9754	0.17%	0.070%
269	16.945	16.904	16.967	VV	405	9717	0.17%	0.069%
270	16.982	16.967	17.022	VV	388	9776	0.17%	0.070%
271	17.041	17.022	17.068	VV	451	6732	0.12%	0.048%
272	17.110	17.068	17.174	VV	2245	43669	0.76%	0.311%
273	17.222	17.174	17.240	VV	420	13252	0.23%	0.095%
274	17.256	17.240	17.279	VV	460	8181	0.14%	0.058%
275	17.291	17.279	17.322	VV	304	5824	0.10%	0.042%
276	17.391	17.322	17.418	VV	375	14669	0.25%	0.105%
277	17.431	17.418	17.468	VV	296	7225	0.13%	0.052%
278	17.546	17.468	17.624	VV	2918	65236	1.13%	0.465%
279	17.632	17.624	17.640	VV	226	1864	0.03%	0.013%
280	17.685	17.640	17.754	VV	575	23608	0.41%	0.168%
281	17.768	17.754	17.791	VV	267	2756	0.05%	0.020%
282	17.841	17.791	17.888	VV	387	13192	0.23%	0.094%
283	17.969	17.888	18.005	PV	2847	52002	0.90%	0.371%
284	18.028	18.005	18.081	VV	456	11287	0.20%	0.081%
285	18.091	18.081	18.124	VV	307	5570	0.10%	0.040%
286	18.165	18.124	18.186	VV	201	5380	0.09%	0.038%
287	18.240	18.186	18.301	VV	443	17598	0.30%	0.126%
288	18.378	18.301	18.434	VV	2493	55365	0.96%	0.395%
289	18.455	18.434	18.486	VV	337	6823	0.12%	0.049%
290	18.505	18.486	18.524	VV	353	5721	0.10%	0.041%
291	18.540	18.524	18.571	VV	317	5903	0.10%	0.042%
292	18.577	18.571	18.588	VV	186	1448	0.03%	0.010%
293	18.631	18.588	18.654	VV	319	5913	0.10%	0.042%
294	18.665	18.654	18.701	VV	297	5002	0.09%	0.036%
295	18.728	18.701	18.748	PV	296	3632	0.06%	0.026%
296	18.776	18.748	18.834	VV	2048	35746	0.62%	0.255%
297	18.852	18.834	18.890	VV	252	6165	0.11%	0.044%
298	19.021	18.890	19.054	VV	489	28547	0.49%	0.204%
299	19.064	19.054	19.105	VV	333	9049	0.16%	0.065%

rteres

300	19.161	19.105	19.235	VV	2397	62617	1.08%	0.447%
301	19.449	19.235	19.514	VV	3103	225038	3.89%	1.605%
302	19.537	19.514	19.624	VV	2848	102140	1.77%	0.729%
303	19.637	19.624	19.652	VV	944	14144	0.24%	0.101%
304	19.782	19.652	19.844	VV	3174	149020	2.58%	1.063%
305	19.901	19.844	19.934	VV	2623	89620	1.55%	0.639%
306	19.956	19.934	19.991	VV	1654	52863	0.91%	0.377%
307	20.166	19.991	20.178	VV	2039	195076	3.38%	1.391%
308	20.260	20.178	20.283	VV	2715	140350	2.43%	1.001%
309	20.438	20.283	20.467	VV	2822	279695	4.84%	1.995%
310	20.476	20.467	20.505	VV	2692	60173	1.04%	0.429%
311	20.511	20.505	20.518	VV	2570	20243	0.35%	0.144%
312	20.611	20.518	20.681	VV	3578	268862	4.65%	1.918%
313	20.685	20.681	20.698	VV	2542	24912	0.43%	0.178%
314	20.710	20.698	20.771	VV	2580	107308	1.86%	0.765%
315	20.783	20.771	20.802	VV	2376	43756	0.76%	0.312%
316	20.815	20.802	20.834	VV	2414	46177	0.80%	0.329%
317	20.850	20.834	20.878	VV	2337	59543	1.03%	0.425%
318	20.900	20.878	20.913	VV	2276	48510	0.84%	0.346%
319	20.951	20.913	20.971	VV	2263	76403	1.32%	0.545%
320	21.008	20.971	21.074	VV	2342	132377	2.29%	0.944%
321	21.089	21.074	21.112	VV	2050	45723	0.79%	0.326%
322	21.169	21.112	21.188	VV	1994	87712	1.52%	0.626%
323	21.232	21.188	21.264	VV	1923	85314	1.48%	0.609%
324	21.279	21.264	21.308	VV	1808	45713	0.79%	0.326%
325	21.314	21.308	21.328	VV	1773	20643	0.36%	0.147%
326	21.369	21.328	21.384	VV	1739	57279	0.99%	0.409%
327	21.464	21.384	21.531	VV	2449	156737	2.71%	1.118%
328	21.557	21.531	21.576	VV	1481	38496	0.67%	0.275%
329	21.593	21.576	21.691	VV	1440	88152	1.53%	0.629%
330	21.702	21.691	21.708	VV	1174	11898	0.21%	0.085%
331	21.743	21.708	21.768	VV	1187	39812	0.69%	0.284%
332	21.792	21.768	21.944	VV	1038	82649	1.43%	0.590%
333	21.978	21.944	21.994	VV	595	16134	0.28%	0.115%
334	22.001	21.994	22.018	VV	506	6074	0.11%	0.043%
335	22.026	22.018	22.044	VV	436	5964	0.10%	0.043%
336	22.064	22.044	22.081	VV	444	7071	0.12%	0.050%
337	22.088	22.081	22.124	VV	310	5667	0.10%	0.040%
338	22.137	22.124	22.171	VV	239	3572	0.06%	0.025%

Sum of corrected areas: 14019342

Aliphatic EPH 021125.M Sat Mar 01 01:26:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049133.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	7340019	51.290 ug/ml
Spiked Amount 50.000		Recovery = 102.58%	
6) S 2-Flurobiphenyl (SURR)	8.202	4052606	46.099 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 92.20%	
11) S ortho-Terphenyl (SURR)	11.236	8287576	51.229 ug/ml
Spiked Amount 50.000		Recovery = 102.46%	
Target Compounds			

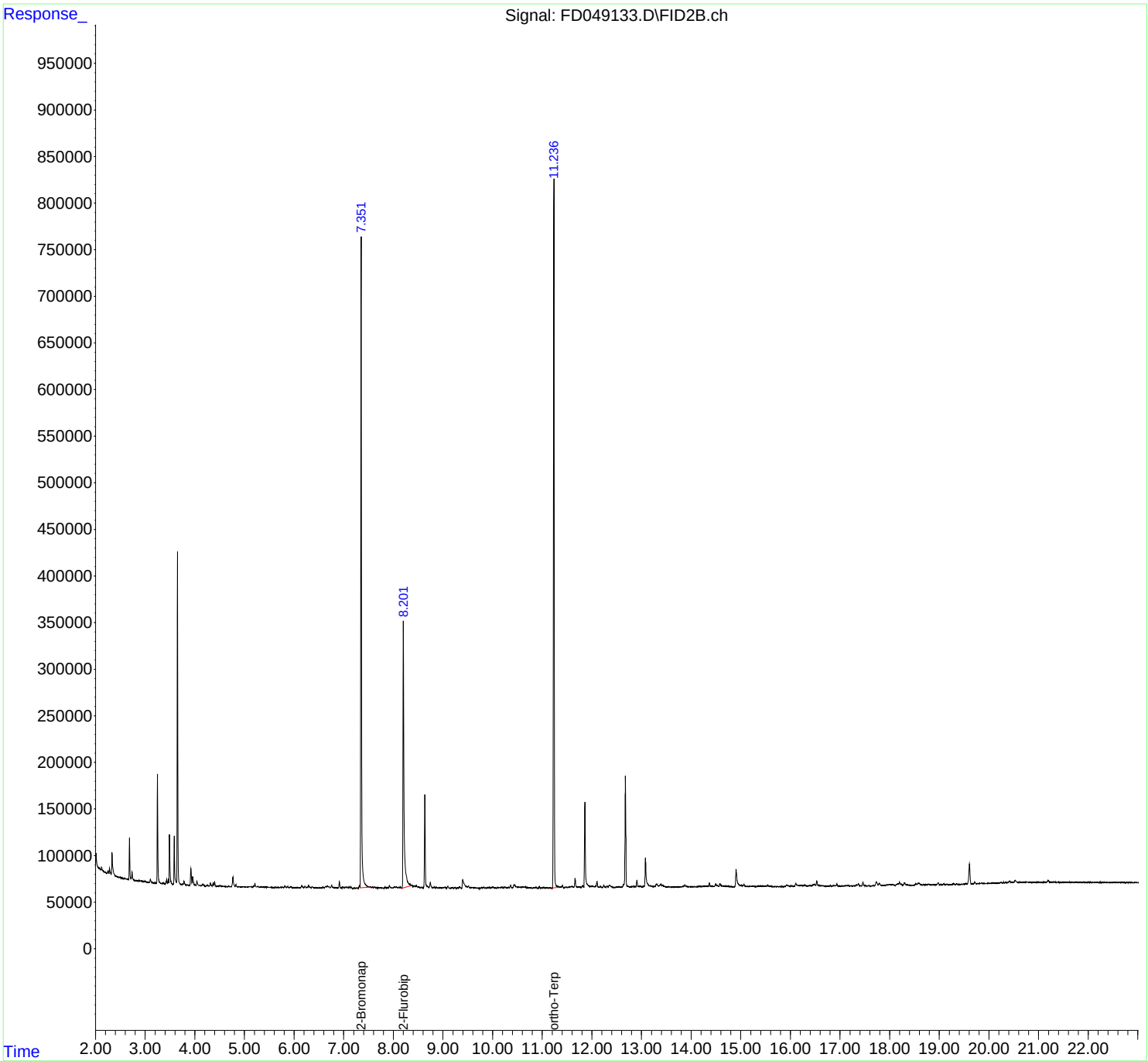
(f)=RT Delta > 1/2 Window (m)=manual int.

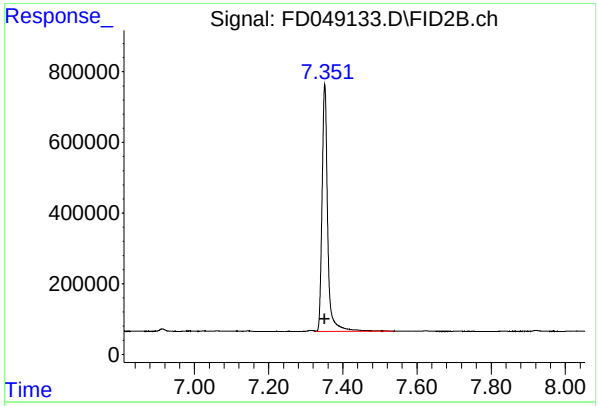
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049133.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

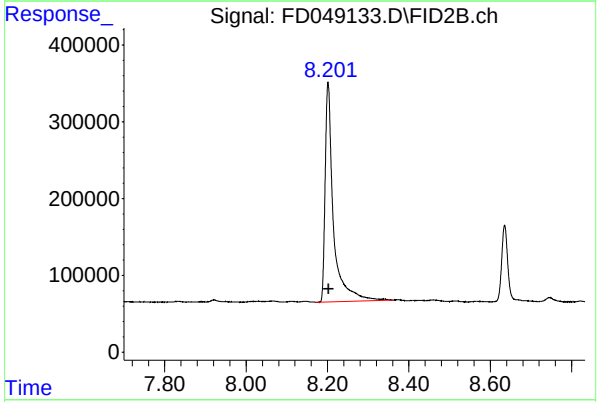




#4 2-Bromonaphthalene (SURR)

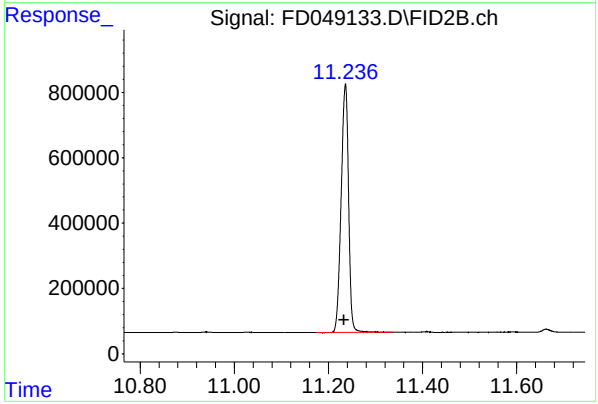
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 7340019
Conc: 51.29 ug/ml

Instrument :
FID_D
ClientSampleId :
B-163-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4052606
Conc: 46.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.003 min
Response: 8287576
Conc: 51.23 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049133.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:50
Sample : Q1415-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.159	4.132	4.210	PV	1936	28925	0.35%	0.086%
2	4.215	4.210	4.228	VV	206	1371	0.02%	0.004%
3	4.261	4.228	4.293	PV	824	13216	0.16%	0.039%
4	4.315	4.293	4.338	VV	3534	42505	0.51%	0.126%
5	4.344	4.338	4.354	VV	952	8526	0.10%	0.025%
6	4.369	4.354	4.383	VV	3792	37800	0.45%	0.112%
7	4.398	4.383	4.437	VV	5168	58341	0.70%	0.173%
8	4.451	4.437	4.458	VV	353	2895	0.03%	0.009%
9	4.464	4.458	4.468	VV	375	1836	0.02%	0.005%
10	4.485	4.468	4.500	VV	911	12759	0.15%	0.038%
11	4.512	4.500	4.545	VV	1101	14992	0.18%	0.045%
12	4.550	4.545	4.554	VV	414	1652	0.02%	0.005%
13	4.556	4.554	4.567	VV	344	1575	0.02%	0.005%
14	4.580	4.567	4.625	VV	529	9777	0.12%	0.029%
15	4.690	4.649	4.704	PV	702	8501	0.10%	0.025%
16	4.710	4.704	4.720	VV	348	2817	0.03%	0.008%
17	4.727	4.720	4.737	VV	349	2805	0.03%	0.008%
18	4.767	4.737	4.812	VV	10813	161198	1.93%	0.479%
19	4.826	4.812	4.875	VV	2677	35054	0.42%	0.104%
20	4.879	4.875	4.912	VV	380	4674	0.06%	0.014%
21	4.916	4.912	4.929	VV	185	1602	0.02%	0.005%
22	4.934	4.929	4.952	VV	177	2039	0.02%	0.006%
23	4.963	4.952	5.000	VV	554	7417	0.09%	0.022%
24	5.013	5.010	5.042	VV	182	1749	0.02%	0.005%
25	5.059	5.042	5.069	VV	257	2329	0.03%	0.007%
26	5.097	5.069	5.100	VV	483	5900	0.07%	0.018%
27	5.107	5.100	5.114	VV	513	3535	0.04%	0.011%
28	5.119	5.114	5.125	VV	463	2949	0.04%	0.009%
29	5.138	5.125	5.164	VV	606	9139	0.11%	0.027%
30	5.186	5.164	5.195	VV	1258	14210	0.17%	0.042%
31	5.213	5.195	5.252	VV	3867	49815	0.60%	0.148%
32	5.270	5.252	5.302	VV	1176	17421	0.21%	0.052%
33	5.308	5.302	5.322	VV	363	3293	0.04%	0.010%
34	5.330	5.322	5.349	VV	569	7480	0.09%	0.022%
35	5.361	5.349	5.400	VV	378	7851	0.09%	0.023%
36	5.415	5.400	5.441	VV	379	5904	0.07%	0.018%

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37	5.468	5.441	5.485	VV	578	8423	0.10%	0.025%
38	5.493	5.485	5.507	VV	298	2425	0.03%	0.007%
39	5.522	5.507	5.530	VV	457	2961	0.04%	0.009%
40	5.540	5.530	5.549	VV	200	2204	0.03%	0.007%
41	5.553	5.549	5.560	VV	266	1011	0.01%	0.003%
42	5.572	5.569	5.599	VV	313	1193	0.01%	0.004%
43	5.638	5.626	5.652	VV	231	2061	0.02%	0.006%
44	5.662	5.652	5.668	VV	345	2274	0.03%	0.007%
45	5.677	5.668	5.703	VV	311	3842	0.05%	0.011%
46	5.724	5.703	5.731	VV	531	5052	0.06%	0.015%
47	5.736	5.731	5.749	VV	416	3130	0.04%	0.009%
48	5.754	5.749	5.757	VV	364	1165	0.01%	0.003%
49	5.771	5.757	5.798	VV	708	10209	0.12%	0.030%
50	5.813	5.798	5.855	VV	1710	28094	0.34%	0.084%
51	5.871	5.855	5.902	VV	1388	17749	0.21%	0.053%
52	5.937	5.902	5.975	VV	996	22658	0.27%	0.067%
53	5.987	5.975	5.992	VV	340	1962	0.02%	0.006%
54	5.998	5.992	6.007	VV	287	1329	0.02%	0.004%
55	6.014	6.007	6.027	VV	216	1203	0.01%	0.004%
56	6.035	6.027	6.047	VV	134	1159	0.01%	0.003%
57	6.064	6.047	6.072	VV	366	2966	0.04%	0.009%
58	6.077	6.072	6.085	VV	251	1116	0.01%	0.003%
59	6.089	6.085	6.103	VV	172	1081	0.01%	0.003%
60	6.111	6.103	6.119	PV	286	1877	0.02%	0.006%
61	6.121	6.119	6.131	VV	246	1404	0.02%	0.004%
62	6.153	6.131	6.195	VV	2539	38613	0.46%	0.115%
63	6.221	6.195	6.245	VV	1923	26313	0.32%	0.078%
64	6.266	6.245	6.276	VV	991	12084	0.14%	0.036%
65	6.293	6.276	6.318	VV	2961	39059	0.47%	0.116%
66	6.323	6.318	6.346	VV	1023	9751	0.12%	0.029%
67	6.364	6.346	6.430	VV	1446	25301	0.30%	0.075%
68	6.446	6.430	6.464	VV	285	3589	0.04%	0.011%
69	6.477	6.464	6.489	VV	260	2668	0.03%	0.008%
70	6.505	6.489	6.519	VV	454	5107	0.06%	0.015%
71	6.522	6.519	6.534	VV	325	2168	0.03%	0.006%
72	6.548	6.534	6.557	VV	337	3223	0.04%	0.010%
73	6.579	6.557	6.611	VV	1696	22460	0.27%	0.067%
74	6.631	6.611	6.652	VV	1920	32313	0.39%	0.096%
75	6.677	6.652	6.693	VV	2330	43758	0.53%	0.130%
76	6.703	6.693	6.729	VV	1778	24366	0.29%	0.072%
77	6.757	6.729	6.797	VV	3172	56085	0.67%	0.167%
78	6.802	6.797	6.827	VV	834	10146	0.12%	0.030%
79	6.835	6.827	6.847	VV	659	7001	0.08%	0.021%
80	6.859	6.847	6.880	VV	802	11599	0.14%	0.034%
81	6.913	6.880	6.955	VV	7178	89569	1.07%	0.266%
82	6.987	6.955	7.012	VV	1460	30215	0.36%	0.090%
83	7.025	7.012	7.039	VV	1536	18997	0.23%	0.056%
84	7.048	7.039	7.054	VV	1197	9513	0.11%	0.028%
85	7.061	7.054	7.085	VV	1650	22200	0.27%	0.066%
86	7.114	7.085	7.131	VV	1489	28528	0.34%	0.085%
87	7.145	7.131	7.184	VV	1716	21777	0.26%	0.065%
88	7.211	7.184	7.215	PV	439	5388	0.06%	0.016%
89	7.222	7.215	7.245	VV	522	7048	0.08%	0.021%

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90	7.252	7.245	7.285	VV	559	8964	0.11%	0.027%
91	7.315	7.285	7.328	VV	3104	37990	0.46%	0.113%
92	7.351	7.328	7.506	VV	699744	7429792	89.15%	22.090%
93	7.512	7.506	7.535	VV	1693	26497	0.32%	0.079%
94	7.539	7.535	7.567	VV	1452	23609	0.28%	0.070%
95	7.578	7.567	7.603	VV	1326	23660	0.28%	0.070%
96	7.624	7.603	7.655	VV	2008	35351	0.42%	0.105%
97	7.659	7.655	7.666	VV	724	4152	0.05%	0.012%
98	7.670	7.666	7.675	VV	678	3621	0.04%	0.011%
99	7.680	7.675	7.695	VV	1024	7412	0.09%	0.022%
100	7.712	7.695	7.731	VV	905	14847	0.18%	0.044%
101	7.740	7.731	7.747	VV	706	5398	0.06%	0.016%
102	7.751	7.747	7.772	VV	670	7331	0.09%	0.022%
103	7.780	7.772	7.795	VV	454	5082	0.06%	0.015%
104	7.801	7.795	7.807	VV	554	2892	0.03%	0.009%
105	7.813	7.807	7.817	VV	570	2762	0.03%	0.008%
106	7.834	7.817	7.854	VV	1356	18380	0.22%	0.055%
107	7.894	7.854	7.901	VV	756	17005	0.20%	0.051%
108	7.921	7.901	7.942	VV	3255	42342	0.51%	0.126%
109	7.948	7.942	7.987	VV	1063	18467	0.22%	0.055%
110	8.032	7.987	8.047	VV	1496	36020	0.43%	0.107%
111	8.067	8.047	8.095	VV	1701	33777	0.41%	0.100%
112	8.112	8.095	8.130	VV	1280	19836	0.24%	0.059%
113	8.146	8.130	8.174	VV	1405	20653	0.25%	0.061%
114	8.202	8.174	8.361	VV	285793	4235668	50.83%	12.593%
115	8.375	8.361	8.394	VV	3426	59289	0.71%	0.176%
116	8.425	8.394	8.442	VV	2681	68876	0.83%	0.205%
117	8.460	8.442	8.499	VV	3286	79816	0.96%	0.237%
118	8.515	8.499	8.544	VV	1924	33769	0.41%	0.100%
119	8.566	8.544	8.602	VV	1353	33704	0.40%	0.100%
120	8.635	8.602	8.719	VV	100549	1120699	13.45%	3.332%
121	8.746	8.719	8.787	VV	6335	111238	1.33%	0.331%
122	8.791	8.787	8.803	VV	793	7002	0.08%	0.021%
123	8.822	8.803	8.845	VV	1687	26134	0.31%	0.078%
124	8.869	8.845	8.898	VV	1347	28044	0.34%	0.083%
125	8.908	8.898	8.920	VV	637	7378	0.09%	0.022%
126	8.949	8.920	9.000	VV	1006	29746	0.36%	0.088%
127	9.020	9.000	9.027	VV	1127	13701	0.16%	0.041%
128	9.040	9.027	9.054	VV	1186	13358	0.16%	0.040%
129	9.058	9.054	9.076	VV	413	5341	0.06%	0.016%
130	9.096	9.076	9.141	VV	2448	38373	0.46%	0.114%
131	9.174	9.141	9.187	VV	758	11130	0.13%	0.033%
132	9.194	9.187	9.219	VV	609	8908	0.11%	0.026%
133	9.241	9.219	9.270	VV	1002	15414	0.18%	0.046%
134	9.301	9.270	9.309	VV	591	8952	0.11%	0.027%
135	9.338	9.309	9.359	VV	1864	29312	0.35%	0.087%
136	9.361	9.359	9.372	VV	652	3527	0.04%	0.010%
137	9.398	9.372	9.497	VV	9338	282105	3.39%	0.839%
138	9.514	9.497	9.566	VV	2661	54537	0.65%	0.162%
139	9.585	9.566	9.630	VV	1151	31658	0.38%	0.094%
140	9.650	9.630	9.672	VV	758	13808	0.17%	0.041%
141	9.682	9.672	9.720	VV	480	8004	0.10%	0.024%

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142	9.726	9.720	9.754	VV	328	4221	0.05%	0.013%
143	9.763	9.754	9.768	VV	592	3919	0.05%	0.012%
144	9.782	9.768	9.798	VV	730	10511	0.13%	0.031%
145	9.819	9.798	9.845	VV	1293	22048	0.26%	0.066%
146	9.856	9.845	9.869	VV	599	6477	0.08%	0.019%
147	9.881	9.869	9.895	VV	699	9745	0.12%	0.029%
148	9.904	9.895	9.919	VV	975	11451	0.14%	0.034%
149	9.930	9.919	9.959	VV	1058	18592	0.22%	0.055%
150	9.972	9.959	9.982	VV	952	11981	0.14%	0.036%
151	9.989	9.982	9.997	VV	1117	8685	0.10%	0.026%
152	10.012	9.997	10.035	VV	1742	23756	0.29%	0.071%
153	10.048	10.035	10.077	VV	709	10699	0.13%	0.032%
154	10.102	10.077	10.114	VV	1282	18169	0.22%	0.054%
155	10.134	10.114	10.160	VV	1167	21524	0.26%	0.064%
156	10.178	10.160	10.205	VV	1432	27743	0.33%	0.082%
157	10.245	10.205	10.278	VV	1686	45499	0.55%	0.135%
158	10.289	10.278	10.307	VV	1089	12407	0.15%	0.037%
159	10.323	10.307	10.340	VV	1133	16002	0.19%	0.048%
160	10.363	10.340	10.387	VV	3406	50876	0.61%	0.151%
161	10.400	10.387	10.409	VV	860	9649	0.12%	0.029%
162	10.427	10.409	10.472	VV	3685	98135	1.18%	0.292%
163	10.479	10.472	10.510	VV	1873	35908	0.43%	0.107%
164	10.523	10.510	10.540	VV	1462	22117	0.27%	0.066%
165	10.546	10.540	10.551	VV	1197	7402	0.09%	0.022%
166	10.556	10.551	10.567	VV	1178	10835	0.13%	0.032%
167	10.580	10.567	10.592	VV	1433	19544	0.23%	0.058%
168	10.605	10.592	10.617	VV	1445	20395	0.24%	0.061%
169	10.630	10.617	10.647	VV	1422	22450	0.27%	0.067%
170	10.660	10.647	10.684	VV	2255	31429	0.38%	0.093%
171	10.698	10.684	10.717	VV	1197	17241	0.21%	0.051%
172	10.724	10.717	10.732	VV	832	6934	0.08%	0.021%
173	10.737	10.732	10.768	VV	856	13660	0.16%	0.041%
174	10.772	10.768	10.778	VV	518	2516	0.03%	0.007%
175	10.785	10.778	10.791	VV	410	2720	0.03%	0.008%
176	10.794	10.791	10.816	VV	344	5160	0.06%	0.015%
177	10.819	10.816	10.824	VV	454	1873	0.02%	0.006%
178	10.830	10.824	10.858	VV	601	9130	0.11%	0.027%
179	10.875	10.858	10.907	VV	1237	18455	0.22%	0.055%
180	10.941	10.907	10.968	VV	2015	30644	0.37%	0.091%
181	11.027	10.968	11.057	VV	1230	36464	0.44%	0.108%
182	11.067	11.057	11.077	VV	539	5614	0.07%	0.017%
183	11.089	11.077	11.100	VV	716	8184	0.10%	0.024%
184	11.107	11.100	11.112	VV	644	3880	0.05%	0.012%
185	11.116	11.112	11.130	VV	652	5871	0.07%	0.017%
186	11.135	11.130	11.140	VV	484	2495	0.03%	0.007%
187	11.146	11.140	11.160	VV	591	5902	0.07%	0.018%
188	11.162	11.160	11.166	VV	526	1702	0.02%	0.005%
189	11.172	11.166	11.190	VV	501	4005	0.05%	0.012%
190	11.236	11.190	11.310	PV	763740	8333654	100.00%	24.777%
191	11.317	11.310	11.337	VV	1901	26086	0.31%	0.078%
192	11.344	11.337	11.352	VV	1414	11283	0.14%	0.034%
193	11.353	11.352	11.363	VV	1202	7217	0.09%	0.021%
194	11.379	11.363	11.392	VV	1600	23604	0.28%	0.070%

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195	11.408	11.392	11.432	VV	2783	42694	0.51%	0.127%
196	11.475	11.432	11.525	VV	1329	56006	0.67%	0.167%
197	11.565	11.525	11.579	VV	1847	46023	0.55%	0.137%
198	11.591	11.579	11.625	VV	2097	44775	0.54%	0.133%
199	11.663	11.625	11.700	VV	10710	165232	1.98%	0.491%
200	11.714	11.700	11.723	VV	1505	17767	0.21%	0.053%
201	11.735	11.723	11.774	VV	1495	37847	0.45%	0.113%
202	11.814	11.774	11.835	VV	2740	59788	0.72%	0.178%
203	11.861	11.835	11.965	VV	92377	1242402	14.91%	3.694%
204	11.972	11.965	12.001	VV	2014	40628	0.49%	0.121%
205	12.011	12.001	12.045	VV	1844	44003	0.53%	0.131%
206	12.078	12.045	12.083	VV	2315	40739	0.49%	0.121%
207	12.104	12.083	12.153	VV	7190	114507	1.37%	0.340%
208	12.177	12.153	12.209	VV	2137	43659	0.52%	0.130%
209	12.241	12.209	12.283	VV	2835	62067	0.74%	0.185%
210	12.305	12.283	12.332	VV	2238	41896	0.50%	0.125%
211	12.350	12.332	12.460	VV	2946	115139	1.38%	0.342%
212	12.464	12.460	12.473	VV	642	4557	0.05%	0.014%
213	12.494	12.473	12.503	VV	1008	15208	0.18%	0.045%
214	12.522	12.503	12.539	VV	1123	22363	0.27%	0.066%
215	12.543	12.539	12.548	VV	1023	4967	0.06%	0.015%
216	12.561	12.548	12.577	VV	1105	16076	0.19%	0.048%
217	12.598	12.577	12.614	VV	1143	21137	0.25%	0.063%
218	12.676	12.614	12.719	VV	120414	1568370	18.82%	4.663%
219	12.725	12.719	12.758	VV	1822	35342	0.42%	0.105%
220	12.765	12.758	12.777	VV	1333	11891	0.14%	0.035%
221	12.810	12.777	12.824	VV	1689	36924	0.44%	0.110%
222	12.851	12.824	12.879	VV	1645	48171	0.58%	0.143%
223	12.907	12.879	12.936	VV	7995	122900	1.47%	0.365%
224	12.953	12.936	12.977	VV	1880	40303	0.48%	0.120%
225	12.989	12.977	13.010	VV	1620	28786	0.35%	0.086%
226	13.035	13.010	13.050	VV	1662	34046	0.41%	0.101%
227	13.080	13.050	13.164	VV	32138	566155	6.79%	1.683%
228	13.177	13.164	13.200	VV	2276	43291	0.52%	0.129%
229	13.206	13.200	13.214	VV	1642	12817	0.15%	0.038%
230	13.220	13.214	13.241	VV	1757	24349	0.29%	0.072%
231	13.254	13.241	13.268	VV	1546	23007	0.28%	0.068%
232	13.310	13.268	13.347	VV	4089	126084	1.51%	0.375%
233	13.363	13.347	13.369	VV	2669	30550	0.37%	0.091%
234	13.389	13.369	13.411	VV	3991	78004	0.94%	0.232%
235	13.431	13.411	13.508	VV	3121	86923	1.04%	0.258%
236	13.514	13.508	13.525	VV	843	7259	0.09%	0.022%
237	13.547	13.525	13.577	VV	1216	27695	0.33%	0.082%
238	13.581	13.577	13.596	VV	707	7068	0.08%	0.021%
239	13.609	13.596	13.626	VV	607	8975	0.11%	0.027%
240	13.649	13.626	13.655	VV	674	9434	0.11%	0.028%
241	13.667	13.655	13.695	VV	798	16166	0.19%	0.048%
242	13.704	13.695	13.717	VV	730	7945	0.10%	0.024%
243	13.729	13.717	13.739	VV	817	9266	0.11%	0.028%
244	13.745	13.739	13.750	VV	641	4548	0.05%	0.014%
245	13.762	13.750	13.777	VV	868	10896	0.13%	0.032%
246	13.792	13.777	13.805	VV	983	13884	0.17%	0.041%

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247	13.809	13.805	13.812	VV	847	3071	0.04%	0.009%
248	13.816	13.812	13.819	VV	879	3697	0.04%	0.011%
249	13.842	13.819	13.847	VV	1500	20590	0.25%	0.061%
250	13.875	13.847	13.898	VV	2762	61103	0.73%	0.182%
251	13.905	13.898	13.932	VV	1424	23921	0.29%	0.071%
252	13.949	13.932	13.974	VV	1119	24113	0.29%	0.072%
253	13.985	13.974	14.012	VV	943	19793	0.24%	0.059%
254	14.041	14.012	14.049	VV	1043	19757	0.24%	0.059%
255	14.060	14.049	14.068	VV	941	10054	0.12%	0.030%
256	14.116	14.068	14.120	VV	1108	31043	0.37%	0.092%
257	14.159	14.120	14.218	VV	1351	64659	0.78%	0.192%
258	14.244	14.218	14.254	VV	1421	24622	0.30%	0.073%
259	14.259	14.254	14.265	VV	1294	8488	0.10%	0.025%
260	14.277	14.265	14.283	VV	1433	13688	0.16%	0.041%
261	14.295	14.283	14.320	VV	1559	30009	0.36%	0.089%
262	14.333	14.320	14.345	VV	1425	19227	0.23%	0.057%
263	14.366	14.345	14.397	VV	4691	76793	0.92%	0.228%
264	14.401	14.397	14.410	VV	1466	10737	0.13%	0.032%
265	14.424	14.410	14.456	VV	1341	31756	0.38%	0.094%
266	14.495	14.456	14.514	VV	4009	78710	0.94%	0.234%
267	14.527	14.514	14.557	VV	2537	42829	0.51%	0.127%
268	14.579	14.557	14.642	VV	4216	108624	1.30%	0.323%
269	14.650	14.642	14.677	VV	1563	27150	0.33%	0.081%
270	14.694	14.677	14.724	VV	1492	33323	0.40%	0.099%
271	14.751	14.724	14.782	VV	1752	39898	0.48%	0.119%
272	14.796	14.782	14.821	VV	956	17075	0.20%	0.051%
273	14.838	14.821	14.862	VV	804	17892	0.21%	0.053%
274	14.905	14.862	15.005	VV	19006	444851	5.34%	1.323%
275	15.019	15.005	15.041	VV	1887	37829	0.45%	0.112%
276	15.062	15.041	15.098	VV	3119	64272	0.77%	0.191%
277	15.108	15.098	15.135	VV	1255	20866	0.25%	0.062%
278	15.142	15.135	15.149	VV	813	5807	0.07%	0.017%
279	15.175	15.149	15.203	VV	1113	27350	0.33%	0.081%
280	15.246	15.203	15.265	VV	1275	35782	0.43%	0.106%
281	15.272	15.265	15.316	VV	898	22755	0.27%	0.068%
282	15.336	15.316	15.340	VV	1020	12233	0.15%	0.036%
283	15.351	15.340	15.358	VV	1196	12055	0.14%	0.036%
284	15.378	15.358	15.392	VV	1472	26192	0.31%	0.078%
285	15.398	15.392	15.412	VV	1318	12495	0.15%	0.037%
286	15.436	15.412	15.474	VV	1374	38263	0.46%	0.114%
287	15.507	15.474	15.526	VV	1460	32517	0.39%	0.097%
288	15.542	15.526	15.577	VV	2297	42324	0.51%	0.126%
289	15.585	15.577	15.601	VV	1096	14073	0.17%	0.042%
290	15.610	15.601	15.640	VV	1083	18014	0.22%	0.054%
291	15.646	15.640	15.663	VV	585	5000	0.06%	0.015%
292	15.694	15.663	15.701	VV	667	10321	0.12%	0.031%
293	15.709	15.701	15.717	VV	458	4209	0.05%	0.013%
294	15.722	15.717	15.730	VV	480	3459	0.04%	0.010%
295	15.741	15.730	15.764	VV	621	9457	0.11%	0.028%
296	15.768	15.764	15.790	VV	485	6385	0.08%	0.019%
297	15.797	15.790	15.805	VV	465	3111	0.04%	0.009%
298	15.838	15.805	15.859	VV	566	14223	0.17%	0.042%
299	15.868	15.859	15.887	VV	628	8010	0.10%	0.024%

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300	15.923	15.887	15.968	VV	2143	63190	0.76%	0.188%
301	15.982	15.968	15.997	VV	1244	18369	0.22%	0.055%
302	16.001	15.997	16.006	VV	1034	4923	0.06%	0.015%
303	16.024	16.006	16.069	VV	1220	33627	0.40%	0.100%
304	16.107	16.069	16.125	VV	4073	70560	0.85%	0.210%
305	16.130	16.125	16.169	VV	2194	45538	0.55%	0.135%
306	16.194	16.169	16.202	VV	1726	30712	0.37%	0.091%
307	16.209	16.202	16.253	VV	1612	44749	0.54%	0.133%
308	16.256	16.253	16.261	VV	1302	5551	0.07%	0.017%
309	16.295	16.261	16.349	VV	2078	70330	0.84%	0.209%
310	16.376	16.349	16.385	VV	1304	23365	0.28%	0.069%
311	16.402	16.385	16.424	VV	1407	28189	0.34%	0.084%
312	16.452	16.424	16.470	VV	2289	47390	0.57%	0.141%
313	16.486	16.470	16.508	VV	2712	47471	0.57%	0.141%
314	16.530	16.508	16.555	VV	6355	97329	1.17%	0.289%
315	16.572	16.555	16.619	VV	2039	52780	0.63%	0.157%
316	16.625	16.619	16.653	VV	1206	21222	0.25%	0.063%
317	16.656	16.653	16.682	VV	1131	15018	0.18%	0.045%
318	16.690	16.682	16.712	VV	780	10836	0.13%	0.032%
319	16.715	16.712	16.726	VV	634	5006	0.06%	0.015%
320	16.730	16.726	16.736	VV	625	3259	0.04%	0.010%
321	16.741	16.736	16.765	VV	521	8526	0.10%	0.025%
322	16.798	16.765	16.833	VV	1202	32579	0.39%	0.097%
323	16.869	16.833	16.899	VV	1287	38654	0.46%	0.115%
324	16.935	16.899	16.976	VV	2796	62027	0.74%	0.184%
325	16.990	16.976	17.001	VV	802	9867	0.12%	0.029%
326	17.048	17.001	17.093	VV	902	40946	0.49%	0.122%
327	17.109	17.093	17.114	VV	1079	11288	0.14%	0.034%
328	17.126	17.114	17.149	VV	1142	21213	0.25%	0.063%
329	17.159	17.149	17.175	VV	1021	14725	0.18%	0.044%
330	17.179	17.175	17.195	VV	1028	10542	0.13%	0.031%
331	17.211	17.195	17.226	VV	960	15758	0.19%	0.047%
332	17.239	17.226	17.249	VV	949	10812	0.13%	0.032%
333	17.268	17.249	17.277	VV	951	13779	0.17%	0.041%
334	17.282	17.277	17.288	VV	937	5097	0.06%	0.015%
335	17.336	17.288	17.350	VV	1761	44637	0.54%	0.133%
336	17.369	17.350	17.397	VV	3025	53267	0.64%	0.158%
337	17.412	17.397	17.432	VV	882	16239	0.19%	0.048%
338	17.460	17.432	17.511	VV	4612	87606	1.05%	0.260%
339	17.517	17.511	17.538	VV	879	12332	0.15%	0.037%
340	17.543	17.538	17.559	VV	765	8328	0.10%	0.025%
341	17.586	17.559	17.598	VV	843	17306	0.21%	0.051%
342	17.606	17.598	17.618	VV	637	5548	0.07%	0.016%
343	17.634	17.618	17.641	PV	588	5622	0.07%	0.017%
344	17.662	17.641	17.684	VV	1099	19364	0.23%	0.058%
345	17.728	17.684	17.766	VV	4861	122744	1.47%	0.365%
346	17.791	17.766	17.868	VV	3056	84305	1.01%	0.251%
347	17.889	17.868	17.902	VV	786	12809	0.15%	0.038%
348	17.911	17.902	17.918	VV	573	4455	0.05%	0.013%
349	17.951	17.918	17.955	VV	993	17505	0.21%	0.052%
350	17.968	17.955	17.972	VV	1181	11283	0.14%	0.034%
351	17.992	17.972	18.026	VV	1491	38407	0.46%	0.114%

rteres

352	18.031	18.026	18.035	VV	973	5309	0.06%	0.016%
353	18.039	18.035	18.047	VV	1082	6988	0.08%	0.021%
354	18.053	18.047	18.065	VV	932	9276	0.11%	0.028%
355	18.070	18.065	18.095	VV	872	11190	0.13%	0.033%
356	18.100	18.095	18.115	VV	587	5196	0.06%	0.015%
357	18.143	18.115	18.146	VV	1355	17162	0.21%	0.051%
358	18.154	18.146	18.157	VV	1378	8404	0.10%	0.025%
359	18.164	18.157	18.170	VV	1550	11257	0.14%	0.033%
360	18.197	18.170	18.267	VV	3084	75050	0.90%	0.223%

Sum of corrected areas: 33634842

Aromatic EPH 021125.M Sat Mar 01 03:57:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068326.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.839	4594404	40.848 ug/ml
Spiked Amount 50.000		Recovery = 81.70%	
Target Compounds			

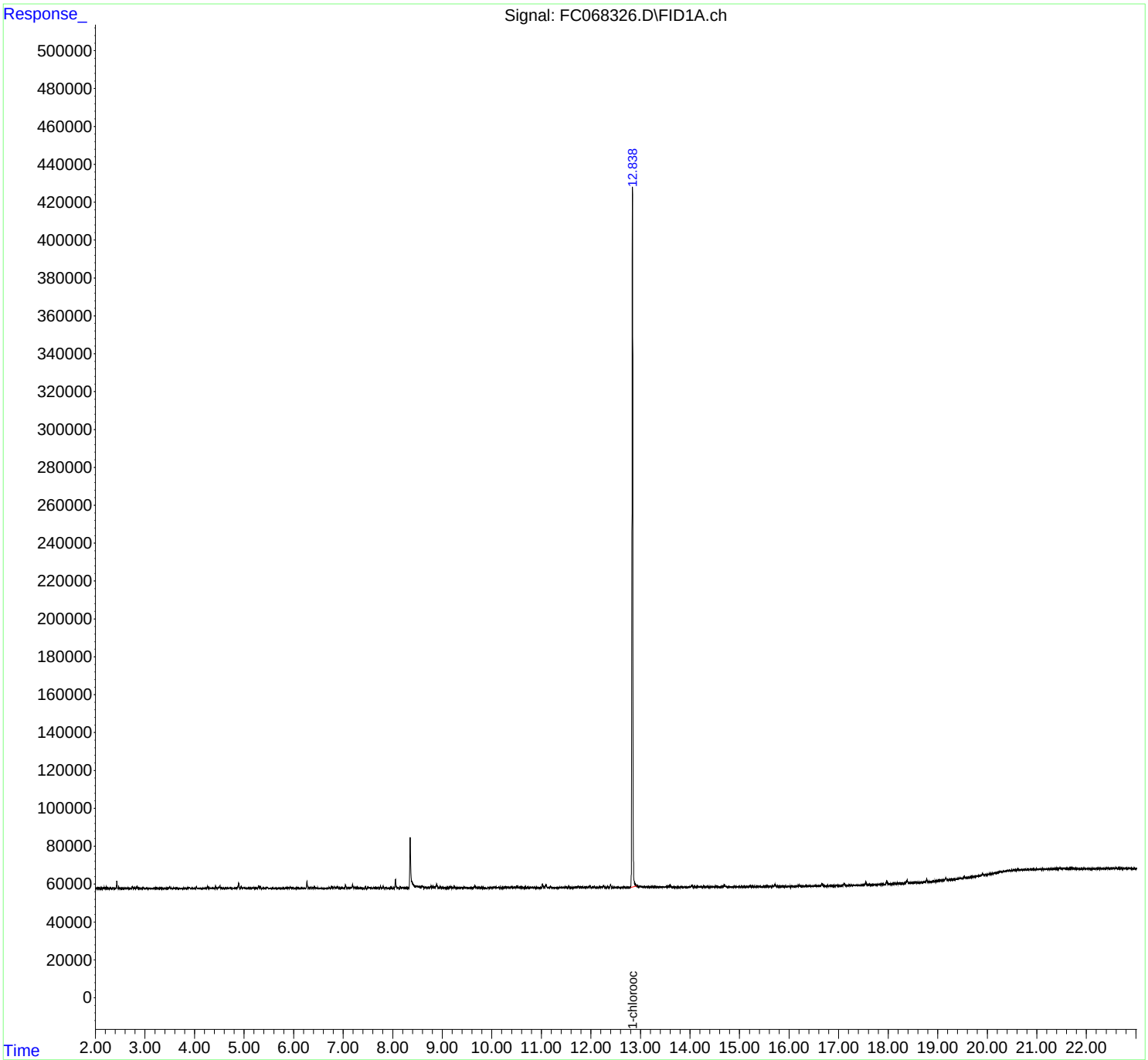
(f)=RT Delta > 1/2 Window (m)=manual int.

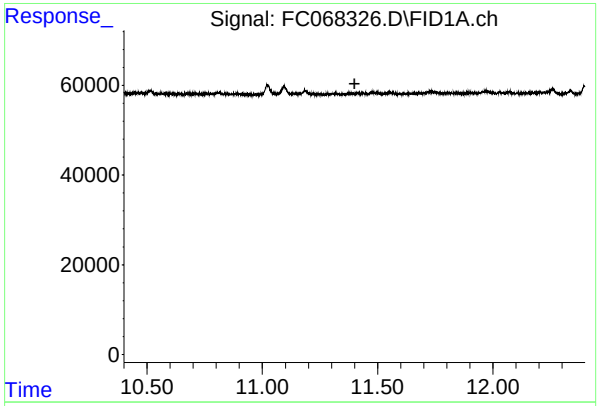
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068326.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

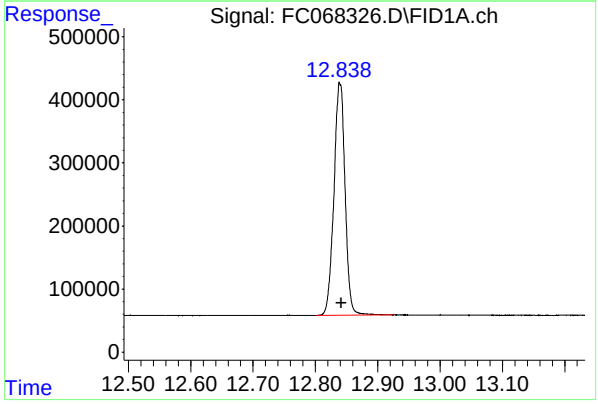




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-172-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 12.839 min
Delta R.T.: -0.002 min
Response: 4594404
Conc: 40.85 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068326.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 13:26
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.360	2.305	2.415	BV	342	2959	0.06%	0.028%
2	2.432	2.415	2.456	PV	4047	30767	0.66%	0.294%
3	2.472	2.456	2.507	VV	926	7985	0.17%	0.076%
4	2.544	2.507	2.581	PV	124	3079	0.07%	0.029%
5	2.591	2.581	2.611	VV	170	1946	0.04%	0.019%
6	2.621	2.611	2.640	VV	126	1636	0.04%	0.016%
7	2.656	2.640	2.682	VV	203	3037	0.07%	0.029%
8	2.694	2.682	2.713	VV	139	1826	0.04%	0.017%
9	2.742	2.713	2.775	VV	727	12864	0.28%	0.123%
10	2.789	2.775	2.812	VV	390	5114	0.11%	0.049%
11	2.839	2.812	2.895	VV	1352	16300	0.35%	0.156%
12	2.910	2.895	2.936	VV	119	2606	0.06%	0.025%
13	2.960	2.936	2.999	VV	591	8560	0.18%	0.082%
14	3.008	2.999	3.015	VV	155	1062	0.02%	0.010%
15	3.024	3.015	3.047	VV	151	2140	0.05%	0.020%
16	3.057	3.047	3.090	VV	207	2924	0.06%	0.028%
17	3.100	3.090	3.137	VV	135	2396	0.05%	0.023%
18	3.150	3.137	3.164	VV	141	1194	0.03%	0.011%
19	3.208	3.164	3.239	VV	326	5725	0.12%	0.055%
20	3.248	3.239	3.258	VV	131	962	0.02%	0.009%
21	3.272	3.258	3.289	VV	154	1676	0.04%	0.016%
22	3.307	3.289	3.322	VV	86	1261	0.03%	0.012%
23	3.436	3.322	3.462	PV	176	5814	0.12%	0.056%
24	3.499	3.462	3.516	VV	1298	13485	0.29%	0.129%
25	3.524	3.516	3.550	VV	260	2836	0.06%	0.027%
26	3.575	3.550	3.616	VV	171	3760	0.08%	0.036%
27	3.627	3.616	3.640	VV	99	1074	0.02%	0.010%
28	3.650	3.640	3.671	VV	170	1467	0.03%	0.014%
29	3.701	3.671	3.715	VV	162	2901	0.06%	0.028%
30	3.733	3.715	3.765	VV	150	2560	0.05%	0.024%
31	3.776	3.765	3.790	VV	160	2005	0.04%	0.019%
32	3.800	3.790	3.818	VV	198	2172	0.05%	0.021%
33	3.865	3.818	3.877	VV	397	6215	0.13%	0.059%
34	3.893	3.877	3.945	VV	774	12852	0.28%	0.123%
35	3.959	3.945	3.993	VV	286	4798	0.10%	0.046%
36	4.007	3.993	4.017	VV	232	2577	0.06%	0.025%

rteres

37	4.040	4.017	4.085	VV	722	11798	0.25%	0.113%
38	4.101	4.085	4.117	VV	200	2662	0.06%	0.025%
39	4.133	4.117	4.148	VV	102	1490	0.03%	0.014%
40	4.169	4.148	4.205	VV	251	5814	0.12%	0.056%
41	4.263	4.205	4.351	VV	910	26451	0.57%	0.253%
42	4.369	4.351	4.395	VV	293	6063	0.13%	0.058%
43	4.428	4.395	4.468	VV	1038	18987	0.41%	0.182%
44	4.484	4.468	4.498	VV	898	9451	0.20%	0.090%
45	4.514	4.498	4.532	VV	1555	15549	0.33%	0.149%
46	4.540	4.532	4.569	VV	359	5866	0.13%	0.056%
47	4.587	4.569	4.611	VV	265	5003	0.11%	0.048%
48	4.629	4.611	4.649	VV	302	5424	0.12%	0.052%
49	4.661	4.649	4.688	VV	231	4504	0.10%	0.043%
50	4.702	4.688	4.711	VV	233	2484	0.05%	0.024%
51	4.724	4.711	4.756	VV	382	5777	0.12%	0.055%
52	4.765	4.756	4.798	VV	212	3115	0.07%	0.030%
53	4.813	4.798	4.831	VV	386	4163	0.09%	0.040%
54	4.890	4.831	4.918	VV	3002	45091	0.97%	0.431%
55	4.944	4.918	4.979	VV	849	15755	0.34%	0.151%
56	4.999	4.979	5.027	VV	415	7261	0.16%	0.069%
57	5.084	5.027	5.138	VV	307	13072	0.28%	0.125%
58	5.152	5.138	5.164	VV	269	3765	0.08%	0.036%
59	5.176	5.164	5.221	VV	292	7544	0.16%	0.072%
60	5.235	5.221	5.247	VV	215	2593	0.06%	0.025%
61	5.260	5.247	5.275	VV	200	2885	0.06%	0.028%
62	5.293	5.275	5.316	VV	1484	19691	0.42%	0.188%
63	5.332	5.316	5.373	VV	1178	16215	0.35%	0.155%
64	5.388	5.373	5.405	VV	368	4963	0.11%	0.047%
65	5.414	5.405	5.439	VV	205	3147	0.07%	0.030%
66	5.466	5.439	5.531	VV	590	12640	0.27%	0.121%
67	5.538	5.531	5.551	VV	163	1375	0.03%	0.013%
68	5.579	5.551	5.614	VV	397	7501	0.16%	0.072%
69	5.632	5.614	5.661	VV	172	3717	0.08%	0.036%
70	5.681	5.661	5.731	VV	167	4610	0.10%	0.044%
71	5.739	5.731	5.779	VV	194	3638	0.08%	0.035%
72	5.788	5.779	5.818	VV	220	3181	0.07%	0.030%
73	5.843	5.818	5.865	VV	365	6850	0.15%	0.065%
74	5.887	5.865	5.911	VV	418	7096	0.15%	0.068%
75	5.928	5.911	5.952	VV	713	9128	0.20%	0.087%
76	5.963	5.952	5.976	VV	254	2923	0.06%	0.028%
77	5.993	5.976	6.035	VV	351	6888	0.15%	0.066%
78	6.063	6.035	6.091	VV	313	6753	0.14%	0.065%
79	6.106	6.091	6.128	VV	206	2837	0.06%	0.027%
80	6.160	6.128	6.185	VV	248	4461	0.10%	0.043%
81	6.192	6.185	6.221	VV	130	2420	0.05%	0.023%
82	6.227	6.221	6.245	VV	132	1242	0.03%	0.012%
83	6.269	6.245	6.335	VV	3844	49644	1.06%	0.475%
84	6.351	6.335	6.371	VV	623	7142	0.15%	0.068%
85	6.385	6.371	6.398	VV	365	3897	0.08%	0.037%
86	6.417	6.398	6.438	VV	1134	13616	0.29%	0.130%
87	6.451	6.438	6.471	VV	385	4735	0.10%	0.045%
88	6.489	6.471	6.525	VV	476	6621	0.14%	0.063%
89	6.582	6.525	6.598	PV	199	3803	0.08%	0.036%

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90	6.656	6.598	6.690	VV	109	3932	0.08%	0.038%
91	6.708	6.690	6.740	VV	550	6952	0.15%	0.066%
92	6.763	6.740	6.797	VV	728	14771	0.32%	0.141%
93	6.824	6.797	6.853	VV	619	14300	0.31%	0.137%
94	6.886	6.853	6.908	VV	933	16163	0.35%	0.155%
95	6.926	6.908	6.950	VV	324	5092	0.11%	0.049%
96	6.969	6.950	7.013	VV	420	8907	0.19%	0.085%
97	7.048	7.013	7.076	VV	2065	25743	0.55%	0.246%
98	7.106	7.076	7.141	VV	376	9466	0.20%	0.090%
99	7.154	7.141	7.168	VV	518	5087	0.11%	0.049%
100	7.190	7.168	7.230	VV	2105	30229	0.65%	0.289%
101	7.252	7.230	7.265	VV	443	7421	0.16%	0.071%
102	7.278	7.265	7.334	VV	636	11167	0.24%	0.107%
103	7.355	7.334	7.379	VV	242	4648	0.10%	0.044%
104	7.398	7.379	7.420	VV	260	3173	0.07%	0.030%
105	7.448	7.420	7.475	VV	971	11654	0.25%	0.111%
106	7.501	7.475	7.575	VV	668	17901	0.38%	0.171%
107	7.611	7.575	7.625	VV	346	6573	0.14%	0.063%
108	7.641	7.625	7.654	VV	347	4160	0.09%	0.040%
109	7.667	7.654	7.695	VV	294	4503	0.10%	0.043%
110	7.708	7.695	7.730	VV	341	4191	0.09%	0.040%
111	7.754	7.730	7.784	VV	1024	13469	0.29%	0.129%
112	7.809	7.784	7.835	VV	1073	12560	0.27%	0.120%
113	7.845	7.835	7.860	VV	249	3054	0.07%	0.029%
114	7.877	7.860	7.895	VV	401	5017	0.11%	0.048%
115	7.905	7.895	7.945	VV	203	3611	0.08%	0.035%
116	7.964	7.945	7.989	VV	525	7048	0.15%	0.067%
117	8.007	7.989	8.028	VV	214	2888	0.06%	0.028%
118	8.057	8.028	8.133	VV	4677	62710	1.34%	0.599%
119	8.152	8.133	8.186	VV	566	12352	0.26%	0.118%
120	8.202	8.186	8.229	VV	526	8151	0.17%	0.078%
121	8.247	8.229	8.271	VV	348	5273	0.11%	0.050%
122	8.288	8.271	8.318	VV	482	5943	0.13%	0.057%
123	8.353	8.318	8.491	PV	26635	463498	9.93%	4.431%
124	8.511	8.491	8.531	VV	1066	20929	0.45%	0.200%
125	8.544	8.531	8.559	VV	900	13197	0.28%	0.126%
126	8.593	8.559	8.633	VV	1244	34132	0.73%	0.326%
127	8.652	8.633	8.686	VV	597	12215	0.26%	0.117%
128	8.708	8.686	8.731	VV	449	8124	0.17%	0.078%
129	8.775	8.731	8.792	VV	1131	20457	0.44%	0.196%
130	8.812	8.792	8.826	VV	932	13845	0.30%	0.132%
131	8.834	8.826	8.856	VV	615	10305	0.22%	0.099%
132	8.888	8.856	8.944	VV	2039	46609	1.00%	0.446%
133	8.962	8.944	8.995	VV	684	10967	0.24%	0.105%
134	9.012	8.995	9.036	VV	382	6163	0.13%	0.059%
135	9.067	9.036	9.081	VV	248	4991	0.11%	0.048%
136	9.094	9.081	9.105	VV	297	3461	0.07%	0.033%
137	9.127	9.105	9.141	VV	256	4530	0.10%	0.043%
138	9.177	9.141	9.216	VV	567	13722	0.29%	0.131%
139	9.242	9.216	9.281	VV	991	17815	0.38%	0.170%
140	9.308	9.281	9.330	VV	319	6929	0.15%	0.066%
141	9.338	9.330	9.357	VV	231	3068	0.07%	0.029%

rteres

142	9.381	9.357	9.411	VV	495	8558	0.18%	0.082%
143	9.433	9.411	9.477	VV	679	11363	0.24%	0.109%
144	9.488	9.477	9.505	VV	183	1759	0.04%	0.017%
145	9.522	9.505	9.545	VV	152	1919	0.04%	0.018%
146	9.572	9.545	9.635	VV	305	8862	0.19%	0.085%
147	9.655	9.635	9.703	VV	1305	21561	0.46%	0.206%
148	9.728	9.703	9.784	VV	355	10543	0.23%	0.101%
149	9.796	9.784	9.811	VV	221	2860	0.06%	0.027%
150	9.825	9.811	9.855	VV	212	3380	0.07%	0.032%
151	9.931	9.855	9.948	VV	277	7129	0.15%	0.068%
152	9.969	9.948	9.991	VV	356	6761	0.14%	0.065%
153	10.042	9.991	10.060	VV	467	13235	0.28%	0.127%
154	10.076	10.060	10.121	VV	416	10497	0.22%	0.100%
155	10.133	10.121	10.149	VV	378	5113	0.11%	0.049%
156	10.161	10.149	10.181	VV	373	4923	0.11%	0.047%
157	10.211	10.181	10.225	VV	246	4000	0.09%	0.038%
158	10.249	10.225	10.263	VV	336	5856	0.13%	0.056%
159	10.284	10.263	10.303	VV	412	7358	0.16%	0.070%
160	10.333	10.303	10.350	VV	565	10842	0.23%	0.104%
161	10.390	10.350	10.426	VV	622	18587	0.40%	0.178%
162	10.446	10.426	10.460	VV	461	7112	0.15%	0.068%
163	10.475	10.460	10.487	VV	415	6426	0.14%	0.061%
164	10.515	10.487	10.554	VV	969	19740	0.42%	0.189%
165	10.563	10.554	10.587	VV	336	4946	0.11%	0.047%
166	10.604	10.587	10.634	VV	318	6294	0.13%	0.060%
167	10.645	10.634	10.656	VV	247	2815	0.06%	0.027%
168	10.674	10.656	10.691	VV	248	4703	0.10%	0.045%
169	10.718	10.691	10.741	VV	287	6839	0.15%	0.065%
170	10.759	10.741	10.778	VV	305	5686	0.12%	0.054%
171	10.813	10.778	10.843	VV	535	11598	0.25%	0.111%
172	10.849	10.843	10.861	VV	219	1977	0.04%	0.019%
173	10.885	10.861	10.942	VV	296	7819	0.17%	0.075%
174	10.948	10.942	10.955	VV	111	678	0.01%	0.006%
175	10.968	10.955	10.978	VV	103	963	0.02%	0.009%
176	11.022	10.978	11.060	PV	2237	36214	0.78%	0.346%
177	11.094	11.060	11.121	VV	1850	31316	0.67%	0.299%
178	11.135	11.121	11.157	VV	280	5372	0.12%	0.051%
179	11.185	11.157	11.226	VV	909	15925	0.34%	0.152%
180	11.239	11.226	11.268	VV	174	3175	0.07%	0.030%
181	11.285	11.268	11.341	VV	185	5818	0.12%	0.056%
182	11.420	11.341	11.457	VV	374	15591	0.33%	0.149%
183	11.478	11.457	11.528	VV	506	12914	0.28%	0.123%
184	11.549	11.528	11.587	VV	506	11075	0.24%	0.106%
185	11.607	11.587	11.620	VV	249	3194	0.07%	0.031%
186	11.633	11.620	11.645	VV	200	2972	0.06%	0.028%
187	11.728	11.645	11.788	VV	598	31646	0.68%	0.303%
188	11.799	11.788	11.838	VV	358	8848	0.19%	0.085%
189	11.841	11.838	11.870	VV	361	5214	0.11%	0.050%
190	11.908	11.870	11.931	VV	406	11407	0.24%	0.109%
191	11.974	11.931	12.015	VV	727	23136	0.50%	0.221%
192	12.030	12.015	12.053	VV	498	8064	0.17%	0.077%
193	12.071	12.053	12.134	VV	556	13943	0.30%	0.133%
194	12.205	12.134	12.218	VV	491	16106	0.35%	0.154%

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195	12.259	12.218	12.298	VV	1158	24703	0.53%	0.236%
196	12.336	12.298	12.365	VV	748	13229	0.28%	0.126%
197	12.397	12.365	12.441	VV	1786	27644	0.59%	0.264%
198	12.457	12.441	12.496	VV	288	7253	0.16%	0.069%
199	12.512	12.496	12.581	VV	336	8800	0.19%	0.084%
200	12.592	12.581	12.604	VV	139	1001	0.02%	0.010%
201	12.654	12.604	12.741	PV	241	11762	0.25%	0.112%
202	12.768	12.741	12.775	VV	233	3517	0.08%	0.034%
203	12.839	12.775	12.991	VV	370461	4666198	100.00%	44.605%
204	13.005	12.991	13.048	VV	711	19676	0.42%	0.188%
205	13.061	13.048	13.100	VV	521	13403	0.29%	0.128%
206	13.129	13.100	13.178	VV	415	15001	0.32%	0.143%
207	13.196	13.178	13.243	VV	469	13306	0.29%	0.127%
208	13.276	13.243	13.340	VV	552	21310	0.46%	0.204%
209	13.388	13.340	13.417	VV	296	12221	0.26%	0.117%
210	13.448	13.417	13.485	VV	376	11481	0.25%	0.110%
211	13.542	13.485	13.567	VV	690	18460	0.40%	0.176%
212	13.595	13.567	13.666	VV	1433	29145	0.62%	0.279%
213	13.686	13.666	13.698	VV	188	2977	0.06%	0.028%
214	13.723	13.698	13.745	VV	247	4314	0.09%	0.041%
215	13.764	13.745	13.795	VV	161	3493	0.07%	0.033%
216	13.823	13.795	13.856	VV	305	6908	0.15%	0.066%
217	13.887	13.856	13.998	VV	239	13662	0.29%	0.131%
218	14.033	13.998	14.085	VV	977	24335	0.52%	0.233%
219	14.097	14.085	14.135	VV	304	7127	0.15%	0.068%
220	14.156	14.135	14.194	VV	392	9361	0.20%	0.089%
221	14.307	14.194	14.337	VV	342	18918	0.41%	0.181%
222	14.356	14.337	14.390	VV	303	6824	0.15%	0.065%
223	14.415	14.390	14.428	VV	275	5104	0.11%	0.049%
224	14.466	14.428	14.488	VV	307	9574	0.21%	0.092%
225	14.502	14.488	14.527	VV	360	5504	0.12%	0.053%
226	14.539	14.527	14.546	VV	281	2641	0.06%	0.025%
227	14.554	14.546	14.581	VV	274	4610	0.10%	0.044%
228	14.596	14.581	14.618	VV	227	3194	0.07%	0.031%
229	14.654	14.618	14.675	VV	594	11276	0.24%	0.108%
230	14.697	14.675	14.781	VV	1350	29282	0.63%	0.280%
231	14.788	14.781	14.810	VV	180	2130	0.05%	0.020%
232	14.820	14.810	14.840	VV	142	1676	0.04%	0.016%
233	14.869	14.840	14.881	PV	246	3708	0.08%	0.035%
234	14.887	14.881	14.900	VV	196	1803	0.04%	0.017%
235	14.913	14.900	14.984	VV	234	7254	0.16%	0.069%
236	14.999	14.984	15.072	VV	162	5982	0.13%	0.057%
237	15.127	15.072	15.145	VV	212	7119	0.15%	0.068%
238	15.181	15.145	15.192	VV	212	4821	0.10%	0.046%
239	15.215	15.192	15.248	VV	615	11914	0.26%	0.114%
240	15.267	15.248	15.314	VV	243	6093	0.13%	0.058%
241	15.342	15.314	15.361	VV	233	4589	0.10%	0.044%
242	15.376	15.361	15.388	VV	252	2822	0.06%	0.027%
243	15.394	15.388	15.408	VV	280	2676	0.06%	0.026%
244	15.414	15.408	15.450	VV	212	3580	0.08%	0.034%
245	15.496	15.450	15.518	VV	190	5983	0.13%	0.057%
246	15.578	15.518	15.613	VV	218	10243	0.22%	0.098%

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247	15.674	15.613	15.690	VV	305	7434	0.16%	0.071%
248	15.714	15.690	15.755	VV	1239	22182	0.48%	0.212%
249	15.762	15.755	15.845	VV	251	4739	0.10%	0.045%
250	15.888	15.845	15.931	VV	152	4287	0.09%	0.041%
251	15.939	15.931	15.988	VV	63	1425	0.03%	0.014%
252	16.016	15.988	16.068	PV	143	3481	0.07%	0.033%
253	16.080	16.068	16.131	PV	139	1808	0.04%	0.017%
254	16.155	16.131	16.168	VV	137	1666	0.04%	0.016%
255	16.198	16.168	16.301	VV	691	16844	0.36%	0.161%
256	16.377	16.301	16.461	VV	177	11435	0.25%	0.109%
257	16.494	16.461	16.516	VV	158	3505	0.08%	0.034%
258	16.554	16.516	16.601	VV	204	6724	0.14%	0.064%
259	16.663	16.601	16.695	VV	1345	27596	0.59%	0.264%
260	16.704	16.695	16.735	VV	204	3370	0.07%	0.032%
261	16.765	16.735	16.794	VV	146	3466	0.07%	0.033%
262	16.821	16.794	16.869	VV	138	3259	0.07%	0.031%
263	16.875	16.869	16.886	VV	61	554	0.01%	0.005%
264	16.950	16.886	17.007	PV	132	4095	0.09%	0.039%
265	17.114	17.007	17.161	PV	1352	25259	0.54%	0.241%
266	17.168	17.161	17.182	VV	100	1152	0.02%	0.011%
267	17.205	17.182	17.228	PV	212	3702	0.08%	0.035%
268	17.239	17.228	17.255	VV	173	2050	0.04%	0.020%
269	17.263	17.255	17.282	VV	120	1539	0.03%	0.015%
270	17.306	17.282	17.316	VV	168	2042	0.04%	0.020%
271	17.321	17.316	17.331	VV	101	785	0.02%	0.008%
272	17.335	17.331	17.344	VV	131	611	0.01%	0.006%
273	17.374	17.344	17.417	PV	150	3914	0.08%	0.037%
274	17.434	17.417	17.475	VV	102	1745	0.04%	0.017%
275	17.548	17.475	17.605	VV	1539	31728	0.68%	0.303%
276	17.610	17.605	17.648	VV	233	2362	0.05%	0.023%
277	17.711	17.648	17.731	VV	142	5266	0.11%	0.050%
278	17.745	17.731	17.760	PV	74	783	0.02%	0.007%
279	17.819	17.760	17.827	VV	138	1663	0.04%	0.016%
280	17.835	17.827	17.858	VV	124	1123	0.02%	0.011%
281	17.971	17.858	18.008	VV	1825	30176	0.65%	0.288%
282	18.041	18.008	18.070	VV	175	3086	0.07%	0.030%
283	18.105	18.070	18.134	PV	94	2570	0.06%	0.025%
284	18.156	18.134	18.167	PV	131	1322	0.03%	0.013%
285	18.192	18.167	18.203	PV	151	2081	0.04%	0.020%
286	18.251	18.203	18.279	VV	205	4900	0.11%	0.047%
287	18.380	18.279	18.442	VV	1572	35824	0.77%	0.342%
288	18.534	18.442	18.581	VV	190	8008	0.17%	0.077%
289	18.629	18.581	18.638	VV	149	3183	0.07%	0.030%
290	18.662	18.638	18.673	VV	223	2901	0.06%	0.028%
291	18.676	18.673	18.690	VV	158	931	0.02%	0.009%
292	18.715	18.690	18.723	VV	81	1068	0.02%	0.010%
293	18.778	18.723	18.820	PV	1108	21440	0.46%	0.205%
294	18.831	18.820	18.847	VV	147	1731	0.04%	0.017%
295	18.951	18.847	18.962	VV	189	5331	0.11%	0.051%
296	18.969	18.962	18.975	VV	159	834	0.02%	0.008%
297	19.163	18.975	19.234	VV	1327	49327	1.06%	0.472%
298	19.322	19.234	19.337	VV	406	16768	0.36%	0.160%
299	19.470	19.337	19.508	VV	660	53824	1.15%	0.515%

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300	19.538	19.508	19.575	VV	1232	34560	0.74%	0.330%
301	19.678	19.575	19.689	VV	860	49818	1.07%	0.476%
302	19.797	19.689	19.837	VV	1204	87161	1.87%	0.833%
303	19.904	19.837	19.941	VV	2089	88533	1.90%	0.846%
304	19.978	19.941	19.998	VV	1479	48378	1.04%	0.462%
305	20.262	19.998	20.288	VV	2508	329241	7.06%	3.147%
306	20.437	20.288	20.466	VV	2773	273160	5.85%	2.611%
307	20.528	20.466	20.537	VV	2682	111359	2.39%	1.064%
308	20.559	20.537	20.568	VV	2696	48675	1.04%	0.465%
309	20.616	20.568	20.667	VV	3080	163525	3.50%	1.563%
310	20.686	20.667	20.717	VV	2599	75800	1.62%	0.725%
311	20.751	20.717	20.788	VV	2580	105990	2.27%	1.013%
312	20.859	20.788	20.871	VV	2475	119644	2.56%	1.144%
313	20.930	20.871	20.981	VV	2366	151503	3.25%	1.448%
314	21.005	20.981	21.101	VV	2288	155261	3.33%	1.484%
315	21.115	21.101	21.135	VV	2128	41861	0.90%	0.400%
316	21.186	21.135	21.211	VV	2063	90829	1.95%	0.868%
317	21.259	21.211	21.285	VV	1943	82929	1.78%	0.793%
318	21.300	21.285	21.315	VV	1836	32043	0.69%	0.306%
319	21.323	21.315	21.334	VV	1750	19564	0.42%	0.187%
320	21.348	21.334	21.398	VV	1696	63672	1.36%	0.609%
321	21.472	21.398	21.506	VV	1845	106311	2.28%	1.016%
322	21.513	21.506	21.565	VV	1522	51258	1.10%	0.490%
323	21.580	21.565	21.598	VV	1390	26292	0.56%	0.251%
324	21.652	21.598	21.697	VV	1369	74900	1.61%	0.716%
325	21.723	21.697	21.815	VV	1188	74105	1.59%	0.708%
326	21.825	21.815	21.935	VV	882	51853	1.11%	0.496%
327	21.983	21.935	22.080	VV	545	37992	0.81%	0.363%
328	22.118	22.080	22.161	VV	254	9677	0.21%	0.093%
329	22.166	22.161	22.197	VV	178	2100	0.04%	0.020%
330	22.212	22.197	22.224	VV	105	1182	0.03%	0.011%

Sum of corrected areas: 10461218

Aliphatic EPH 021125.M Sat Mar 01 01:26:28 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049134.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	6756272	47.211 ug/ml
Spiked Amount 50.000		Recovery =	94.42%
6) S 2-Flurobiphenyl (SURR)	8.203	3783597	43.039 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	86.08%
11) S ortho-Terphenyl (SURR)	11.235	6456380	39.910 ug/ml
Spiked Amount 50.000		Recovery =	79.82%
Target Compounds			

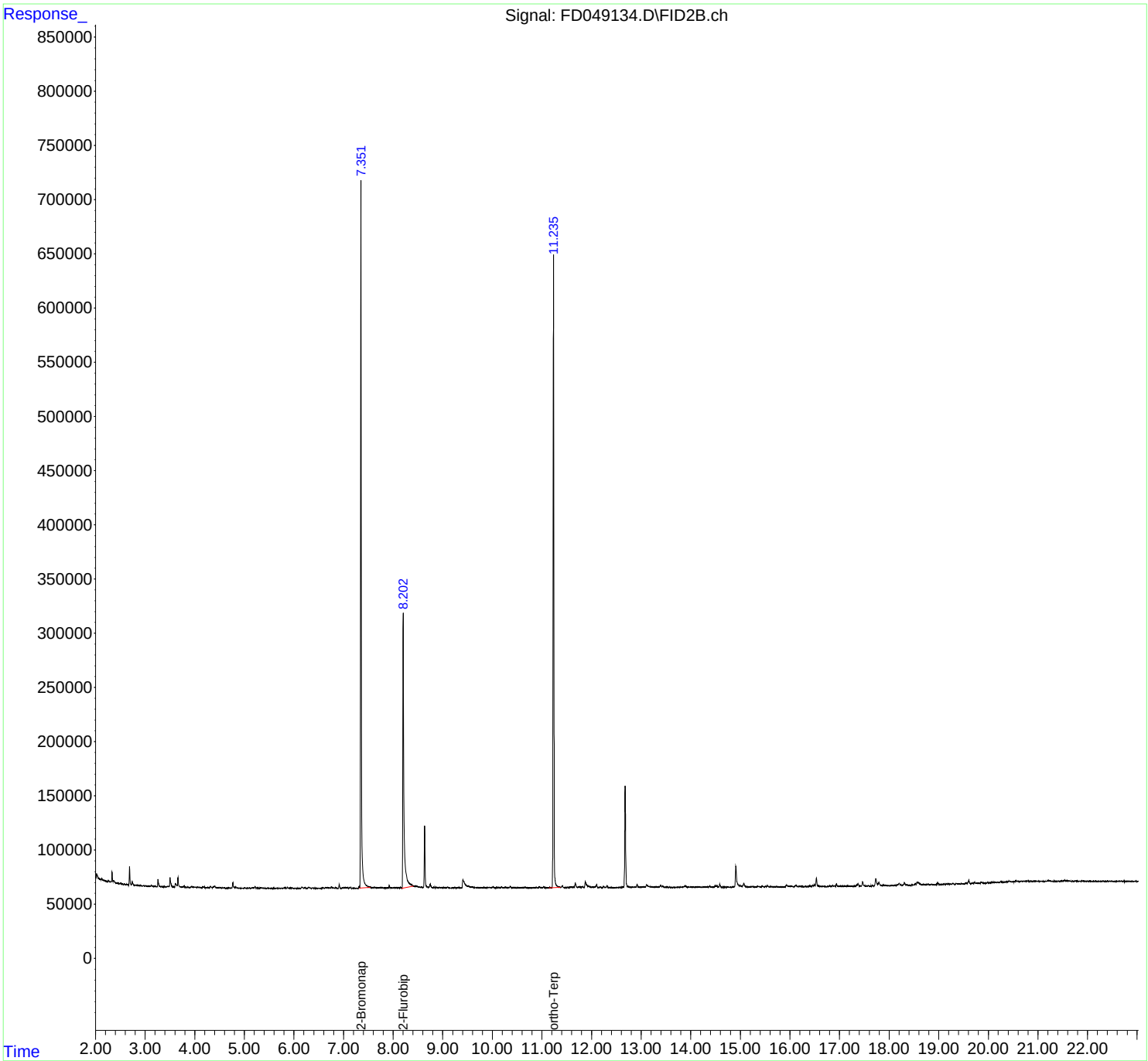
(f)=RT Delta > 1/2 Window (m)=manual int.

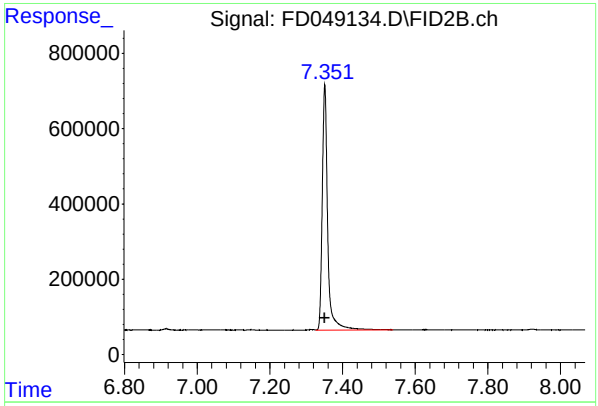
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049134.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

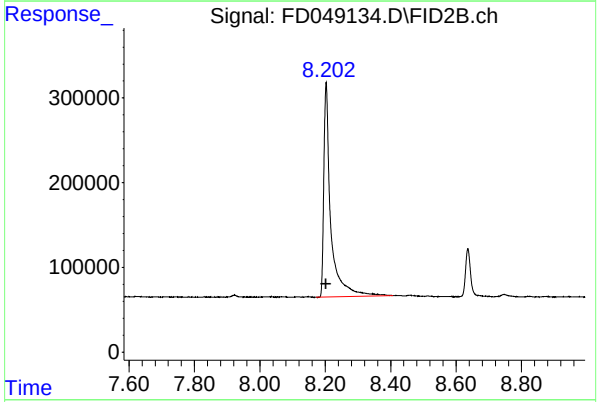




#4 2-Bromonaphthalene (SURR)

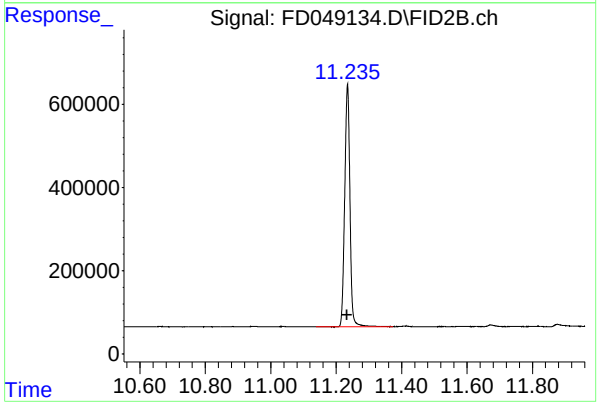
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 6756272
Conc: 47.21 ug/ml

Instrument :
FID_D
ClientSampleId :
B-172-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 3783597
Conc: 43.04 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 6456380
Conc: 39.91 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049134.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 13:26
Sample : Q1415-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.063	4.042	4.084	BV	518	6473	0.09%	0.026%
2	4.110	4.084	4.138	VV	329	4530	0.07%	0.018%
3	4.168	4.138	4.195	PV	969	17157	0.25%	0.069%
4	4.199	4.195	4.234	VV	445	4858	0.07%	0.019%
5	4.249	4.234	4.255	VV	385	3611	0.05%	0.014%
6	4.262	4.255	4.287	VV	510	6359	0.09%	0.025%
7	4.318	4.287	4.350	VV	1544	25538	0.37%	0.102%
8	4.373	4.350	4.388	VV	1559	20227	0.30%	0.081%
9	4.403	4.388	4.447	VV	2131	34693	0.51%	0.139%
10	4.452	4.447	4.466	VV	449	3918	0.06%	0.016%
11	4.472	4.466	4.492	VV	323	3650	0.05%	0.015%
12	4.509	4.492	4.549	VV	614	10148	0.15%	0.041%
13	4.554	4.549	4.565	VV	235	1517	0.02%	0.006%
14	4.580	4.565	4.595	VV	440	5589	0.08%	0.022%
15	4.602	4.595	4.633	VV	394	4943	0.07%	0.020%
16	4.660	4.633	4.675	PV	327	4685	0.07%	0.019%
17	4.689	4.675	4.696	VV	485	4334	0.06%	0.017%
18	4.701	4.696	4.707	VV	347	2197	0.03%	0.009%
19	4.711	4.707	4.730	VV	417	3935	0.06%	0.016%
20	4.769	4.730	4.814	VV	5448	80613	1.18%	0.322%
21	4.828	4.814	4.864	VV	1259	19453	0.28%	0.078%
22	4.869	4.864	4.894	VV	347	2767	0.04%	0.011%
23	4.904	4.894	4.927	VV	209	3138	0.05%	0.013%
24	4.973	4.953	4.994	VV	399	6113	0.09%	0.024%
25	5.007	4.994	5.038	VV	448	6795	0.10%	0.027%
26	5.050	5.038	5.084	VV	320	4986	0.07%	0.020%
27	5.096	5.084	5.113	VV	208	2861	0.04%	0.011%
28	5.141	5.113	5.159	VV	593	10066	0.15%	0.040%
29	5.164	5.159	5.173	VV	473	3604	0.05%	0.014%
30	5.217	5.173	5.259	VV	1925	43145	0.63%	0.172%
31	5.272	5.259	5.313	VV	656	12120	0.18%	0.048%
32	5.334	5.313	5.387	VV	580	17084	0.25%	0.068%
33	5.400	5.387	5.412	VV	427	4156	0.06%	0.017%
34	5.427	5.412	5.433	VV	289	2116	0.03%	0.008%
35	5.437	5.433	5.445	VV	216	1166	0.02%	0.005%
36	5.469	5.445	5.504	VV	438	9623	0.14%	0.038%

rteres

37	5.512	5.504	5.518	VV	324	1962	0.03%	0.008%
38	5.524	5.518	5.531	VV	295	1628	0.02%	0.006%
39	5.542	5.531	5.555	VV	278	2551	0.04%	0.010%
40	5.573	5.555	5.586	VV	409	4088	0.06%	0.016%
41	5.598	5.594	5.627	VV	165	2694	0.04%	0.011%
42	5.639	5.627	5.644	VV	202	1519	0.02%	0.006%
43	5.672	5.644	5.690	VV	447	6506	0.09%	0.026%
44	5.708	5.690	5.717	VV	425	3434	0.05%	0.014%
45	5.738	5.722	5.758	VV	456	7091	0.10%	0.028%
46	5.788	5.758	5.798	VV	501	8494	0.12%	0.034%
47	5.820	5.798	5.854	VV	734	16707	0.24%	0.067%
48	5.871	5.854	5.914	VV	1290	20480	0.30%	0.082%
49	5.936	5.914	5.955	VV	624	11176	0.16%	0.045%
50	5.960	5.955	5.964	VV	370	1588	0.02%	0.006%
51	5.969	5.964	6.011	VV	405	9361	0.14%	0.037%
52	6.018	6.011	6.050	VV	444	6281	0.09%	0.025%
53	6.064	6.050	6.092	VV	381	4571	0.07%	0.018%
54	6.103	6.092	6.138	PV	330	5496	0.08%	0.022%
55	6.160	6.138	6.196	VV	1578	30400	0.44%	0.121%
56	6.223	6.196	6.252	VV	1078	21391	0.31%	0.085%
57	6.268	6.252	6.279	VV	660	7093	0.10%	0.028%
58	6.296	6.279	6.324	VV	1461	25058	0.37%	0.100%
59	6.327	6.324	6.352	VV	717	7755	0.11%	0.031%
60	6.367	6.352	6.379	VV	800	8853	0.13%	0.035%
61	6.384	6.379	6.404	VV	648	6501	0.09%	0.026%
62	6.435	6.404	6.442	VV	387	4852	0.07%	0.019%
63	6.466	6.449	6.492	VV	407	5379	0.08%	0.021%
64	6.501	6.492	6.514	VV	291	2861	0.04%	0.011%
65	6.535	6.514	6.542	VV	348	4734	0.07%	0.019%
66	6.546	6.542	6.567	VV	452	5206	0.08%	0.021%
67	6.584	6.567	6.605	VV	988	14367	0.21%	0.057%
68	6.609	6.605	6.614	VV	322	1337	0.02%	0.005%
69	6.630	6.614	6.659	VV	961	17817	0.26%	0.071%
70	6.681	6.659	6.695	VV	1048	17780	0.26%	0.071%
71	6.711	6.695	6.738	VV	902	16782	0.24%	0.067%
72	6.760	6.738	6.779	VV	1853	25860	0.38%	0.103%
73	6.785	6.779	6.792	VV	555	3992	0.06%	0.016%
74	6.798	6.792	6.803	VV	628	3668	0.05%	0.015%
75	6.810	6.803	6.818	VV	536	4626	0.07%	0.018%
76	6.843	6.818	6.851	VV	789	11691	0.17%	0.047%
77	6.863	6.851	6.890	VV	635	9553	0.14%	0.038%
78	6.914	6.890	6.957	VV	3788	46852	0.68%	0.187%
79	6.985	6.957	7.012	VV	937	20346	0.30%	0.081%
80	7.026	7.012	7.041	VV	864	11691	0.17%	0.047%
81	7.047	7.041	7.054	VV	747	4640	0.07%	0.019%
82	7.066	7.054	7.080	VV	1102	12650	0.18%	0.051%
83	7.088	7.080	7.100	VV	530	4939	0.07%	0.020%
84	7.116	7.100	7.134	VV	816	10791	0.16%	0.043%
85	7.146	7.134	7.167	VV	1184	12823	0.19%	0.051%
86	7.172	7.167	7.186	VV	348	2563	0.04%	0.010%
87	7.192	7.186	7.202	VV	364	2431	0.04%	0.010%
88	7.209	7.202	7.241	VV	358	5514	0.08%	0.022%
89	7.247	7.241	7.253	VV	279	1596	0.02%	0.006%

rteres

90	7.262	7.253	7.287	VV	345	3978	0.06%	0.016%
91	7.315	7.287	7.327	VV	1502	18867	0.28%	0.075%
92	7.351	7.327	7.549	VV	653665	6853037	100.00%	27.366%
93	7.552	7.549	7.572	VV	1001	11172	0.16%	0.045%
94	7.591	7.572	7.611	VV	1011	20093	0.29%	0.080%
95	7.628	7.611	7.667	VV	1181	27723	0.40%	0.111%
96	7.684	7.667	7.700	VV	760	12271	0.18%	0.049%
97	7.710	7.700	7.717	VV	754	6754	0.10%	0.027%
98	7.720	7.717	7.733	VV	707	5480	0.08%	0.022%
99	7.742	7.733	7.774	VV	864	13632	0.20%	0.054%
100	7.782	7.774	7.787	VV	722	4048	0.06%	0.016%
101	7.790	7.787	7.794	VV	514	1989	0.03%	0.008%
102	7.810	7.794	7.819	VV	493	5937	0.09%	0.024%
103	7.830	7.819	7.857	VV	699	10854	0.16%	0.043%
104	7.875	7.857	7.885	VV	528	7909	0.12%	0.032%
105	7.889	7.885	7.894	VV	630	2474	0.04%	0.010%
106	7.923	7.894	7.975	VV	2774	47648	0.70%	0.190%
107	7.980	7.975	7.987	VV	481	3288	0.05%	0.013%
108	7.992	7.987	7.999	VV	451	2982	0.04%	0.012%
109	8.033	7.999	8.045	VV	898	17253	0.25%	0.069%
110	8.051	8.045	8.059	VV	624	4635	0.07%	0.019%
111	8.068	8.059	8.095	VV	927	11622	0.17%	0.046%
112	8.114	8.095	8.132	VV	785	10667	0.16%	0.043%
113	8.147	8.132	8.166	VV	823	11971	0.17%	0.048%
114	8.170	8.166	8.178	VV	252	1462	0.02%	0.006%
115	8.203	8.178	8.339	VV	253533	3812716	55.64%	15.225%
116	8.344	8.339	8.407	VV	4232	130318	1.90%	0.520%
117	8.416	8.407	8.441	VV	2358	44036	0.64%	0.176%
118	8.460	8.441	8.504	VV	2585	70103	1.02%	0.280%
119	8.514	8.504	8.545	VV	1667	30787	0.45%	0.123%
120	8.551	8.545	8.555	VV	1016	5395	0.08%	0.022%
121	8.569	8.555	8.574	VV	1190	11710	0.17%	0.047%
122	8.578	8.574	8.601	VV	1157	14311	0.21%	0.057%
123	8.636	8.601	8.716	VV	57574	669087	9.76%	2.672%
124	8.747	8.716	8.805	VV	3634	83656	1.22%	0.334%
125	8.825	8.805	8.854	VV	1245	23845	0.35%	0.095%
126	8.873	8.854	8.900	VV	1049	20455	0.30%	0.082%
127	8.928	8.900	8.938	VV	786	13723	0.20%	0.055%
128	8.944	8.938	8.964	VV	807	10576	0.15%	0.042%
129	8.970	8.964	8.994	VV	744	10792	0.16%	0.043%
130	9.023	8.994	9.037	VV	776	15694	0.23%	0.063%
131	9.043	9.037	9.074	VV	809	9324	0.14%	0.037%
132	9.095	9.074	9.147	VV	1264	25294	0.37%	0.101%
133	9.173	9.147	9.177	VV	486	5478	0.08%	0.022%
134	9.186	9.177	9.200	VV	485	4625	0.07%	0.018%
135	9.204	9.200	9.210	VV	336	1768	0.03%	0.007%
136	9.213	9.210	9.218	VV	321	1314	0.02%	0.005%
137	9.247	9.218	9.283	VV	835	16654	0.24%	0.067%
138	9.296	9.283	9.300	VV	602	4502	0.07%	0.018%
139	9.305	9.300	9.318	VV	623	5800	0.08%	0.023%
140	9.328	9.318	9.360	VV	645	12722	0.19%	0.051%
141	9.376	9.360	9.379	VV	483	4664	0.07%	0.019%

rteres

142	9.407	9.379	9.502	VV	7928	277538	4.05%	1.108%
143	9.516	9.502	9.552	VV	2336	53593	0.78%	0.214%
144	9.559	9.552	9.574	VV	1237	15745	0.23%	0.063%
145	9.590	9.574	9.644	VV	1360	39249	0.57%	0.157%
146	9.650	9.644	9.672	VV	714	10442	0.15%	0.042%
147	9.687	9.672	9.704	VV	681	10520	0.15%	0.042%
148	9.708	9.704	9.728	VV	535	5734	0.08%	0.023%
149	9.757	9.728	9.773	VV	602	11833	0.17%	0.047%
150	9.778	9.773	9.784	VV	563	3084	0.05%	0.012%
151	9.790	9.784	9.797	VV	554	3722	0.05%	0.015%
152	9.804	9.797	9.811	VV	521	3989	0.06%	0.016%
153	9.820	9.811	9.842	VV	746	10619	0.15%	0.042%
154	9.845	9.842	9.860	VV	552	4300	0.06%	0.017%
155	9.884	9.860	9.888	VV	604	7499	0.11%	0.030%
156	9.908	9.888	9.919	VV	798	12282	0.18%	0.049%
157	9.931	9.919	9.949	VV	734	11484	0.17%	0.046%
158	9.956	9.949	9.960	VV	737	4700	0.07%	0.019%
159	9.966	9.960	9.994	VV	776	12209	0.18%	0.049%
160	10.012	9.994	10.057	VV	1496	24720	0.36%	0.099%
161	10.062	10.057	10.072	VV	338	2766	0.04%	0.011%
162	10.104	10.072	10.121	VV	767	15021	0.22%	0.060%
163	10.132	10.121	10.154	VV	710	10233	0.15%	0.041%
164	10.187	10.154	10.210	VV	998	20754	0.30%	0.083%
165	10.216	10.210	10.238	VV	614	8567	0.13%	0.034%
166	10.262	10.238	10.280	VV	947	18072	0.26%	0.072%
167	10.294	10.280	10.315	VV	702	11513	0.17%	0.046%
168	10.331	10.315	10.344	VV	749	10647	0.16%	0.043%
169	10.363	10.344	10.387	VV	1755	26948	0.39%	0.108%
170	10.407	10.387	10.437	VV	629	11906	0.17%	0.048%
171	10.458	10.437	10.473	VV	618	9426	0.14%	0.038%
172	10.476	10.473	10.480	VV	375	1435	0.02%	0.006%
173	10.486	10.480	10.491	VV	456	2181	0.03%	0.009%
174	10.494	10.491	10.515	VV	466	3717	0.05%	0.015%
175	10.523	10.515	10.527	VV	473	2342	0.03%	0.009%
176	10.530	10.527	10.542	VV	505	3625	0.05%	0.014%
177	10.543	10.542	10.549	VV	415	1343	0.02%	0.005%
178	10.562	10.549	10.585	VV	440	7525	0.11%	0.030%
179	10.604	10.585	10.618	VV	560	7325	0.11%	0.029%
180	10.632	10.618	10.648	VV	564	8628	0.13%	0.034%
181	10.663	10.648	10.688	VV	853	11677	0.17%	0.047%
182	10.704	10.688	10.745	VV	376	6875	0.10%	0.027%
183	10.750	10.745	10.774	VV	309	3408	0.05%	0.014%
184	10.779	10.774	10.784	VV	257	1266	0.02%	0.005%
185	10.790	10.784	10.795	VV	224	1225	0.02%	0.005%
186	10.799	10.795	10.813	VV	356	2169	0.03%	0.009%
187	10.833	10.813	10.854	VV	325	5579	0.08%	0.022%
188	10.858	10.854	10.866	VV	302	1510	0.02%	0.006%
189	10.884	10.866	10.907	VV	861	10933	0.16%	0.044%
190	10.917	10.907	10.926	VV	396	3377	0.05%	0.013%
191	10.948	10.926	10.981	VV	1124	21810	0.32%	0.087%
192	10.991	10.981	10.996	VV	508	3694	0.05%	0.015%
193	10.999	10.996	11.005	VV	483	2220	0.03%	0.009%
194	11.037	11.005	11.089	VV	935	24803	0.36%	0.099%

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195	11.093	11.089	11.101	VV	369	1888	0.03%	0.008%
196	11.105	11.101	11.112	VV	270	1527	0.02%	0.006%
197	11.126	11.112	11.137	VV	419	4318	0.06%	0.017%
198	11.144	11.137	11.148	VV	335	1996	0.03%	0.008%
199	11.154	11.148	11.193	VV	494	7961	0.12%	0.032%
200	11.235	11.193	11.357	PV	584305	6491411	94.72%	25.922%
201	11.361	11.357	11.381	VV	852	9435	0.14%	0.038%
202	11.413	11.381	11.444	VV	2197	39991	0.58%	0.160%
203	11.459	11.444	11.474	VV	541	7531	0.11%	0.030%
204	11.477	11.474	11.481	VV	457	1878	0.03%	0.007%
205	11.502	11.481	11.507	VV	644	7629	0.11%	0.030%
206	11.531	11.507	11.540	VV	959	12433	0.18%	0.050%
207	11.545	11.540	11.549	VV	576	2784	0.04%	0.011%
208	11.554	11.549	11.564	VV	670	5350	0.08%	0.021%
209	11.569	11.564	11.581	VV	817	8257	0.12%	0.033%
210	11.596	11.581	11.614	VV	1084	16735	0.24%	0.067%
211	11.631	11.614	11.645	VV	819	13876	0.20%	0.055%
212	11.647	11.645	11.652	VV	748	2543	0.04%	0.010%
213	11.672	11.652	11.720	VV	4640	80613	1.18%	0.322%
214	11.735	11.720	11.780	VV	1073	28619	0.42%	0.114%
215	11.817	11.780	11.854	VV	1396	36269	0.53%	0.145%
216	11.876	11.854	11.995	VV	6068	182412	2.66%	0.728%
217	12.001	11.995	12.003	VV	698	3219	0.05%	0.013%
218	12.029	12.003	12.047	VV	982	19589	0.29%	0.078%
219	12.052	12.047	12.059	VV	829	5608	0.08%	0.022%
220	12.104	12.059	12.135	VV	3476	65931	0.96%	0.263%
221	12.140	12.135	12.159	VV	482	5866	0.09%	0.023%
222	12.180	12.159	12.202	VV	872	15941	0.23%	0.064%
223	12.206	12.202	12.211	VV	407	1995	0.03%	0.008%
224	12.216	12.211	12.222	VV	440	2325	0.03%	0.009%
225	12.244	12.222	12.279	VV	1512	28644	0.42%	0.114%
226	12.284	12.279	12.290	VV	505	2936	0.04%	0.012%
227	12.313	12.290	12.353	VV	1957	32119	0.47%	0.128%
228	12.376	12.353	12.391	VV	439	5819	0.08%	0.023%
229	12.400	12.391	12.422	VV	248	3023	0.04%	0.012%
230	12.428	12.422	12.444	VV	197	1247	0.02%	0.005%
231	12.458	12.444	12.474	VV	239	1484	0.02%	0.006%
232	12.497	12.474	12.509	PV	512	5296	0.08%	0.021%
233	12.518	12.509	12.540	VV	409	6309	0.09%	0.025%
234	12.560	12.540	12.568	VV	524	6728	0.10%	0.027%
235	12.575	12.568	12.581	VV	603	3706	0.05%	0.015%
236	12.610	12.581	12.616	VV	587	9383	0.14%	0.037%
237	12.678	12.616	12.734	VV	93954	1207525	17.62%	4.822%
238	12.739	12.734	12.762	VV	1220	16089	0.23%	0.064%
239	12.763	12.762	12.779	VV	817	6510	0.09%	0.026%
240	12.786	12.779	12.794	VV	683	5057	0.07%	0.020%
241	12.809	12.794	12.817	VV	712	8427	0.12%	0.034%
242	12.827	12.817	12.839	VV	697	8145	0.12%	0.033%
243	12.847	12.839	12.860	VV	809	8958	0.13%	0.036%
244	12.865	12.860	12.885	VV	769	8865	0.13%	0.035%
245	12.919	12.885	12.951	VV	3409	57651	0.84%	0.230%
246	12.959	12.951	12.978	VV	756	9442	0.14%	0.038%

rteres

247	13.001	12.978	13.020	VV	726	14184	0.21%	0.057%
248	13.046	13.020	13.083	VV	934	24626	0.36%	0.098%
249	13.106	13.083	13.169	VV	2809	83964	1.23%	0.335%
250	13.172	13.169	13.212	VV	1118	22309	0.33%	0.089%
251	13.226	13.212	13.250	VV	738	13591	0.20%	0.054%
252	13.265	13.250	13.282	VV	875	13838	0.20%	0.055%
253	13.286	13.282	13.344	VV	981	22934	0.33%	0.092%
254	13.362	13.344	13.370	VV	893	9216	0.13%	0.037%
255	13.396	13.370	13.415	VV	2379	39808	0.58%	0.159%
256	13.433	13.415	13.458	VV	1919	28943	0.42%	0.116%
257	13.463	13.458	13.470	VV	620	3723	0.05%	0.015%
258	13.481	13.470	13.491	VV	569	6296	0.09%	0.025%
259	13.494	13.491	13.520	VV	513	5975	0.09%	0.024%
260	13.528	13.520	13.544	VV	420	4863	0.07%	0.019%
261	13.547	13.544	13.559	VV	337	2479	0.04%	0.010%
262	13.567	13.559	13.596	VV	519	6469	0.09%	0.026%
263	13.600	13.596	13.616	VV	253	2003	0.03%	0.008%
264	13.623	13.616	13.630	VV	193	1159	0.02%	0.005%
265	13.640	13.630	13.648	VV	313	1920	0.03%	0.008%
266	13.655	13.648	13.677	VV	232	3440	0.05%	0.014%
267	13.680	13.677	13.710	VV	362	4216	0.06%	0.017%
268	13.729	13.717	13.759	VV	432	7502	0.11%	0.030%
269	13.769	13.759	13.780	VV	444	3904	0.06%	0.016%
270	13.784	13.780	13.792	VV	384	2137	0.03%	0.009%
271	13.802	13.792	13.815	VV	424	4594	0.07%	0.018%
272	13.826	13.815	13.832	VV	485	3823	0.06%	0.015%
273	13.847	13.832	13.864	VV	849	13072	0.19%	0.052%
274	13.884	13.864	13.930	VV	1822	42164	0.62%	0.168%
275	13.937	13.930	13.943	VV	447	2873	0.04%	0.011%
276	13.960	13.943	13.974	VV	584	8770	0.13%	0.035%
277	13.989	13.974	13.994	VV	578	5753	0.08%	0.023%
278	13.999	13.994	14.037	VV	642	10324	0.15%	0.041%
279	14.044	14.037	14.049	VV	548	3113	0.05%	0.012%
280	14.053	14.049	14.066	VV	511	4436	0.06%	0.018%
281	14.075	14.066	14.092	VV	505	6386	0.09%	0.026%
282	14.101	14.092	14.110	VV	447	4446	0.06%	0.018%
283	14.115	14.110	14.135	VV	674	7373	0.11%	0.029%
284	14.152	14.135	14.190	VV	619	15458	0.23%	0.062%
285	14.195	14.190	14.216	VV	395	4493	0.07%	0.018%
286	14.256	14.216	14.271	VV	545	12888	0.19%	0.051%
287	14.307	14.271	14.312	VV	671	13338	0.19%	0.053%
288	14.331	14.312	14.359	VV	596	13115	0.19%	0.052%
289	14.381	14.359	14.429	VV	1181	26554	0.39%	0.106%
290	14.445	14.429	14.455	VV	231	2754	0.04%	0.011%
291	14.502	14.455	14.517	VV	1686	32848	0.48%	0.131%
292	14.530	14.517	14.561	VV	1760	26654	0.39%	0.106%
293	14.585	14.561	14.632	VV	2861	43202	0.63%	0.173%
294	14.642	14.632	14.667	VV	257	2790	0.04%	0.011%
295	14.697	14.667	14.724	PV	413	6937	0.10%	0.028%
296	14.738	14.724	14.812	VV	454	11068	0.16%	0.044%
297	14.829	14.812	14.836	VV	328	3202	0.05%	0.013%
298	14.846	14.836	14.854	VV	456	3829	0.06%	0.015%
299	14.908	14.854	15.030	VV	19549	412785	6.02%	1.648%

rteres

300	15.069	15.030	15.194	VV	3859	110029	1.61%	0.439%
301	15.201	15.194	15.212	VV	602	5456	0.08%	0.022%
302	15.238	15.212	15.287	VV	629	21696	0.32%	0.087%
303	15.292	15.287	15.310	VV	427	4220	0.06%	0.017%
304	15.349	15.310	15.417	VV	744	29769	0.43%	0.119%
305	15.444	15.417	15.479	VV	703	19219	0.28%	0.077%
306	15.508	15.479	15.523	VV	888	17598	0.26%	0.070%
307	15.546	15.523	15.599	VV	1481	34508	0.50%	0.138%
308	15.626	15.599	15.660	VV	683	16014	0.23%	0.064%
309	15.678	15.660	15.710	VV	317	5474	0.08%	0.022%
310	15.735	15.710	15.782	VV	370	12295	0.18%	0.049%
311	15.820	15.782	15.830	VV	300	4510	0.07%	0.018%
312	15.865	15.830	15.878	VV	287	5907	0.09%	0.024%
313	15.931	15.878	15.965	VV	1899	45113	0.66%	0.180%
314	15.983	15.965	16.005	VV	854	16620	0.24%	0.066%
315	16.027	16.005	16.077	VV	1022	26703	0.39%	0.107%
316	16.120	16.077	16.167	VV	1674	44570	0.65%	0.178%
317	16.188	16.167	16.199	VV	679	9344	0.14%	0.037%
318	16.229	16.199	16.257	VV	707	17928	0.26%	0.072%
319	16.274	16.257	16.296	VV	445	7815	0.11%	0.031%
320	16.313	16.296	16.347	VV	521	12682	0.19%	0.051%
321	16.404	16.347	16.426	VV	840	29178	0.43%	0.117%
322	16.457	16.426	16.470	VV	1381	23401	0.34%	0.093%
323	16.492	16.470	16.507	VV	1920	30561	0.45%	0.122%
324	16.532	16.507	16.565	VV	8262	122992	1.79%	0.491%
325	16.581	16.565	16.652	VV	1161	33553	0.49%	0.134%
326	16.662	16.652	16.670	VV	432	3892	0.06%	0.016%
327	16.709	16.670	16.739	VV	471	14879	0.22%	0.059%
328	16.807	16.739	16.840	VV	912	30996	0.45%	0.124%
329	16.862	16.840	16.892	VV	1242	26103	0.38%	0.104%
330	16.902	16.892	16.915	VV	858	10966	0.16%	0.044%
331	16.940	16.915	16.965	VV	2364	39728	0.58%	0.159%
332	16.979	16.965	17.015	VV	652	16696	0.24%	0.067%
333	17.057	17.015	17.089	VV	881	27775	0.41%	0.111%
334	17.099	17.089	17.114	VV	608	8098	0.12%	0.032%
335	17.119	17.114	17.134	VV	746	7024	0.10%	0.028%
336	17.168	17.134	17.192	VV	734	21254	0.31%	0.085%
337	17.213	17.192	17.254	VV	664	19436	0.28%	0.078%
338	17.258	17.254	17.274	VV	571	5887	0.09%	0.024%
339	17.313	17.274	17.320	VV	721	16629	0.24%	0.066%
340	17.345	17.320	17.355	VV	1487	23087	0.34%	0.092%
341	17.373	17.355	17.414	VV	2531	47453	0.69%	0.189%
342	17.421	17.414	17.436	VV	770	8355	0.12%	0.033%
343	17.466	17.436	17.535	VV	4552	93928	1.37%	0.375%
344	17.544	17.535	17.560	VV	744	9610	0.14%	0.038%
345	17.579	17.560	17.619	VV	815	21105	0.31%	0.084%
346	17.631	17.619	17.642	VV	588	6468	0.09%	0.026%
347	17.666	17.642	17.692	PV	1055	20528	0.30%	0.082%
348	17.731	17.692	17.772	VV	7175	160530	2.34%	0.641%
349	17.794	17.772	17.862	VV	3199	88165	1.29%	0.352%
350	17.893	17.862	17.979	VV	871	37085	0.54%	0.148%
351	17.992	17.979	18.009	VV	283	3501	0.05%	0.014%

					rteres			
352	18.069	18.009	18.103	VV	315	9346	0.14%	0.037%
353	18.200	18.103	18.224	VV	2010	46429	0.68%	0.185%
354	18.236	18.224	18.272	VV	565	9077	0.13%	0.036%
			Sum of corrected areas:			25042086		

Aromatic EPH 021125.M Sat Mar 01 03:58:15 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068327.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.839	4203916	37.377 ug/ml
Spiked Amount 50.000		Recovery = 74.75%	
Target Compounds			

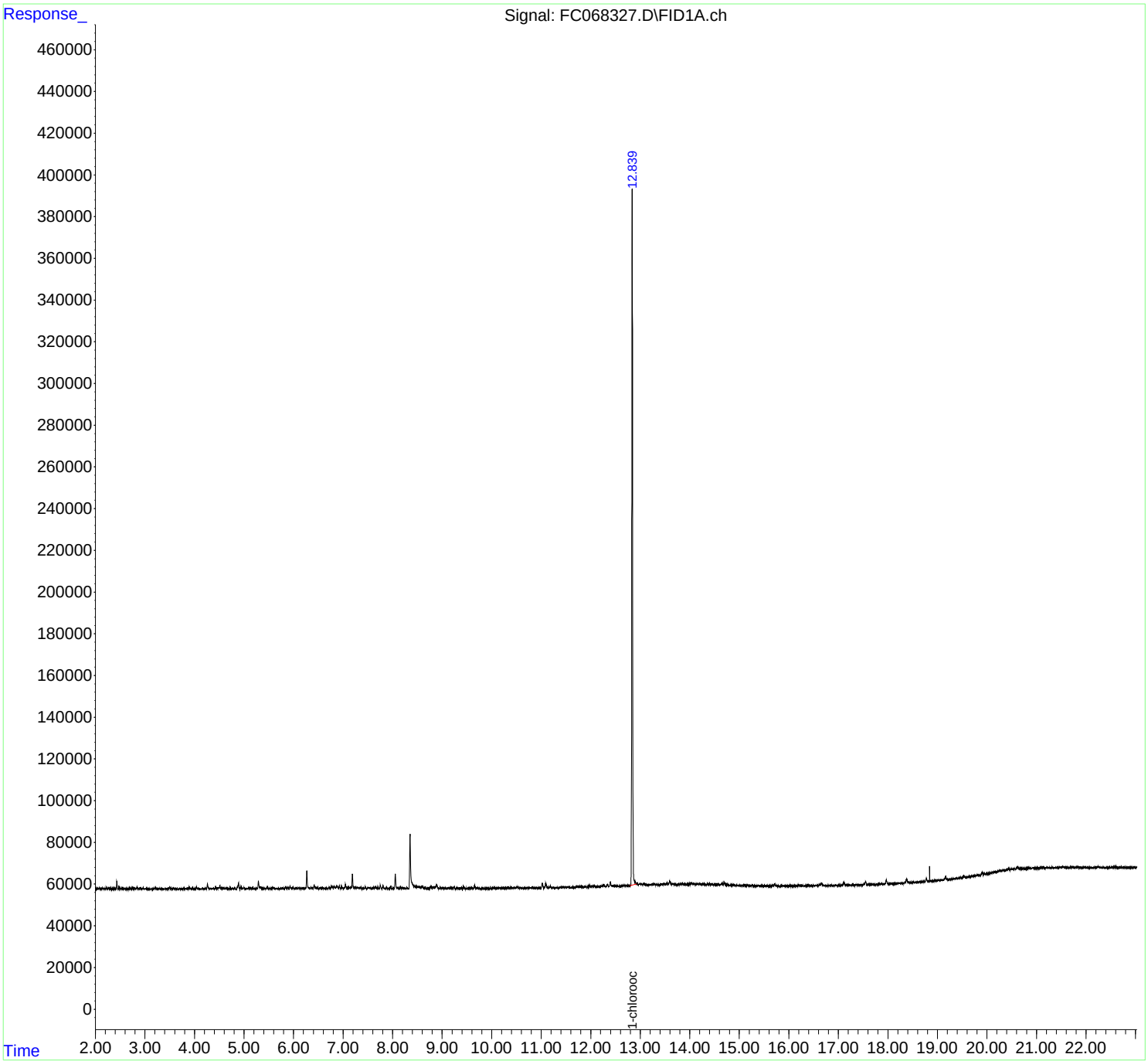
(f)=RT Delta > 1/2 Window (m)=manual int.

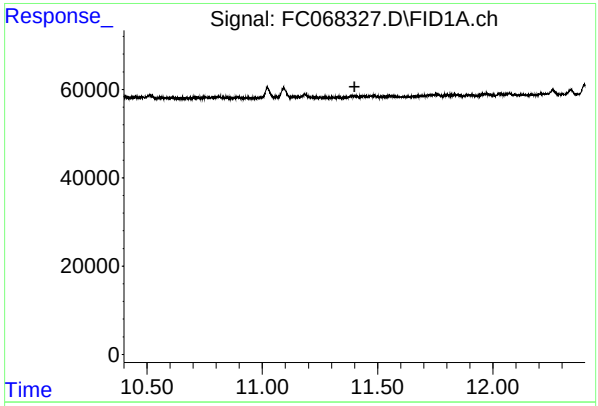
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068327.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

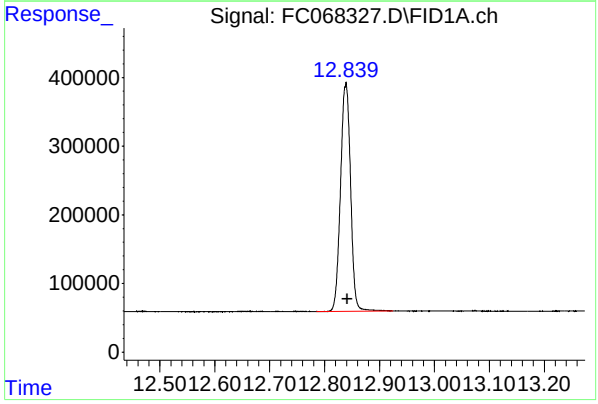




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-163-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 12.839 min
Delta R.T.: -0.003 min
Response: 4203916
Conc: 37.38 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068327.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:03
Sample : Q1415-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.359	2.305	2.395	BV	275	2994	0.07%	0.025%
2	2.405	2.395	2.412	PV	61	523	0.01%	0.004%
3	2.432	2.412	2.457	VV	3610	28140	0.65%	0.237%
4	2.473	2.457	2.545	VV	870	9544	0.22%	0.081%
5	2.556	2.545	2.577	VV	112	895	0.02%	0.008%
6	2.592	2.577	2.611	VV	154	1323	0.03%	0.011%
7	2.656	2.611	2.694	VV	151	3099	0.07%	0.026%
8	2.743	2.694	2.773	PV	565	9777	0.22%	0.082%
9	2.788	2.773	2.808	VV	574	5645	0.13%	0.048%
10	2.839	2.808	2.875	VV	1114	12990	0.30%	0.110%
11	2.885	2.875	2.894	VV	89	776	0.02%	0.007%
12	2.912	2.894	2.931	VV	195	2910	0.07%	0.025%
13	2.961	2.931	3.004	VV	467	6901	0.16%	0.058%
14	3.033	3.004	3.042	VV	154	2254	0.05%	0.019%
15	3.052	3.042	3.084	VV	160	1941	0.04%	0.016%
16	3.095	3.084	3.105	PV	138	584	0.01%	0.005%
17	3.123	3.105	3.151	VV	100	1643	0.04%	0.014%
18	3.208	3.151	3.294	VV	773	14485	0.33%	0.122%
19	3.304	3.294	3.341	VV	151	2503	0.06%	0.021%
20	3.354	3.341	3.364	VV	141	1016	0.02%	0.009%
21	3.383	3.364	3.391	VV	138	1551	0.04%	0.013%
22	3.402	3.391	3.421	VV	176	2076	0.05%	0.018%
23	3.437	3.421	3.451	PV	48	993	0.02%	0.008%
24	3.499	3.451	3.515	VV	1254	15817	0.36%	0.133%
25	3.523	3.515	3.555	VV	284	2988	0.07%	0.025%
26	3.575	3.555	3.612	VV	450	6079	0.14%	0.051%
27	3.628	3.612	3.678	VV	164	3315	0.08%	0.028%
28	3.695	3.678	3.718	VV	126	2200	0.05%	0.019%
29	3.738	3.718	3.752	VV	147	1751	0.04%	0.015%
30	3.782	3.752	3.824	VV	271	6014	0.14%	0.051%
31	3.864	3.824	3.878	VV	651	8063	0.19%	0.068%
32	3.894	3.878	3.941	VV	1048	15392	0.35%	0.130%
33	3.960	3.941	3.991	VV	606	7303	0.17%	0.062%
34	4.040	3.991	4.057	VV	768	12190	0.28%	0.103%
35	4.067	4.057	4.141	VV	290	7306	0.17%	0.062%
36	4.167	4.141	4.199	VV	289	4912	0.11%	0.041%

rteres

37	4.214	4.199	4.230	VV	179	2576	0.06%	0.022%
38	4.262	4.230	4.314	VV	2511	33708	0.77%	0.284%
39	4.325	4.314	4.351	VV	269	4379	0.10%	0.037%
40	4.374	4.351	4.398	VV	351	5810	0.13%	0.049%
41	4.428	4.398	4.448	VV	982	13557	0.31%	0.114%
42	4.456	4.448	4.471	VV	431	5136	0.12%	0.043%
43	4.484	4.471	4.497	VV	838	7891	0.18%	0.067%
44	4.513	4.497	4.529	VV	1765	17719	0.41%	0.150%
45	4.538	4.529	4.554	VV	520	5340	0.12%	0.045%
46	4.568	4.554	4.581	VV	389	4970	0.11%	0.042%
47	4.586	4.581	4.602	VV	385	3195	0.07%	0.027%
48	4.631	4.602	4.645	VV	444	6844	0.16%	0.058%
49	4.662	4.645	4.689	VV	355	7073	0.16%	0.060%
50	4.723	4.689	4.765	VV	604	9614	0.22%	0.081%
51	4.775	4.765	4.794	VV	198	2461	0.06%	0.021%
52	4.812	4.794	4.844	VV	387	5928	0.14%	0.050%
53	4.890	4.844	4.917	VV	2958	45268	1.04%	0.382%
54	4.939	4.917	4.978	VV	998	18836	0.43%	0.159%
55	4.998	4.978	5.029	VV	791	11105	0.26%	0.094%
56	5.053	5.029	5.065	VV	189	2535	0.06%	0.021%
57	5.091	5.065	5.135	VV	433	10384	0.24%	0.088%
58	5.150	5.135	5.165	VV	415	5184	0.12%	0.044%
59	5.177	5.165	5.192	VV	357	4133	0.09%	0.035%
60	5.204	5.192	5.218	VV	265	3212	0.07%	0.027%
61	5.236	5.218	5.259	VV	225	4289	0.10%	0.036%
62	5.292	5.259	5.320	VV	3844	49940	1.15%	0.421%
63	5.331	5.320	5.374	VV	1043	15773	0.36%	0.133%
64	5.385	5.374	5.424	VV	358	6491	0.15%	0.055%
65	5.467	5.424	5.501	VV	749	16956	0.39%	0.143%
66	5.512	5.501	5.518	VV	154	1385	0.03%	0.012%
67	5.539	5.518	5.556	VV	298	4396	0.10%	0.037%
68	5.582	5.556	5.616	VV	710	12076	0.28%	0.102%
69	5.636	5.616	5.649	VV	295	3652	0.08%	0.031%
70	5.672	5.649	5.711	VV	310	7362	0.17%	0.062%
71	5.742	5.711	5.760	VV	304	4925	0.11%	0.042%
72	5.792	5.760	5.810	VV	355	6627	0.15%	0.056%
73	5.844	5.810	5.865	VV	830	15354	0.35%	0.130%
74	5.887	5.865	5.908	VV	970	12997	0.30%	0.110%
75	5.928	5.908	5.963	VV	1346	20153	0.46%	0.170%
76	5.989	5.963	6.030	VV	1000	16925	0.39%	0.143%
77	6.064	6.030	6.088	VV	403	9462	0.22%	0.080%
78	6.100	6.088	6.129	VV	424	6544	0.15%	0.055%
79	6.151	6.129	6.173	VV	379	7778	0.18%	0.066%
80	6.194	6.173	6.215	VV	320	6567	0.15%	0.055%
81	6.269	6.215	6.334	VV	8715	111286	2.56%	0.939%
82	6.352	6.334	6.373	VV	694	10460	0.24%	0.088%
83	6.388	6.373	6.401	VV	552	6908	0.16%	0.058%
84	6.417	6.401	6.440	VV	2033	24526	0.56%	0.207%
85	6.450	6.440	6.475	VV	608	8239	0.19%	0.070%
86	6.487	6.475	6.508	VV	643	8406	0.19%	0.071%
87	6.525	6.508	6.567	VV	369	9404	0.22%	0.079%
88	6.586	6.567	6.606	VV	645	9806	0.23%	0.083%
89	6.653	6.606	6.681	VV	410	11583	0.27%	0.098%

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90	6.709	6.681	6.736	VV	720	12371	0.28%	0.104%
91	6.764	6.736	6.776	VV	1229	17824	0.41%	0.150%
92	6.781	6.776	6.799	VV	1033	11629	0.27%	0.098%
93	6.824	6.799	6.848	VV	1319	23111	0.53%	0.195%
94	6.869	6.848	6.908	VV	1643	33229	0.76%	0.280%
95	6.925	6.908	6.945	VV	1165	14683	0.34%	0.124%
96	6.967	6.945	6.986	VV	1334	17310	0.40%	0.146%
97	6.993	6.986	7.006	VV	529	4870	0.11%	0.041%
98	7.048	7.006	7.087	VV	2226	37363	0.86%	0.315%
99	7.106	7.087	7.121	VV	542	9073	0.21%	0.077%
100	7.130	7.121	7.141	VV	532	5949	0.14%	0.050%
101	7.152	7.141	7.168	VV	622	7956	0.18%	0.067%
102	7.190	7.168	7.235	VV	6950	88048	2.02%	0.743%
103	7.247	7.235	7.265	VV	542	8771	0.20%	0.074%
104	7.279	7.265	7.296	VV	677	9132	0.21%	0.077%
105	7.311	7.296	7.331	VV	439	8314	0.19%	0.070%
106	7.358	7.331	7.388	VV	769	14712	0.34%	0.124%
107	7.399	7.388	7.418	VV	301	3908	0.09%	0.033%
108	7.448	7.418	7.480	VV	1022	14681	0.34%	0.124%
109	7.522	7.480	7.536	VV	623	14515	0.33%	0.122%
110	7.548	7.536	7.580	VV	435	7915	0.18%	0.067%
111	7.611	7.580	7.625	VV	591	9179	0.21%	0.077%
112	7.642	7.625	7.656	VV	792	11327	0.26%	0.096%
113	7.666	7.656	7.688	VV	620	8294	0.19%	0.070%
114	7.709	7.688	7.731	VV	802	10353	0.24%	0.087%
115	7.753	7.731	7.788	VV	1718	22466	0.52%	0.190%
116	7.808	7.788	7.830	VV	1704	19855	0.46%	0.168%
117	7.845	7.830	7.861	VV	341	3861	0.09%	0.033%
118	7.878	7.861	7.896	VV	754	8964	0.21%	0.076%
119	7.910	7.896	7.940	VV	253	4735	0.11%	0.040%
120	7.963	7.940	8.030	VV	1229	20048	0.46%	0.169%
121	8.056	8.030	8.128	VV	7048	91653	2.11%	0.773%
122	8.152	8.128	8.185	VV	567	13542	0.31%	0.114%
123	8.202	8.185	8.228	VV	511	7980	0.18%	0.067%
124	8.250	8.228	8.270	VV	361	5439	0.12%	0.046%
125	8.289	8.270	8.321	VV	428	5230	0.12%	0.044%
126	8.353	8.321	8.492	PV	25967	441965	10.15%	3.729%
127	8.508	8.492	8.528	VV	906	17372	0.40%	0.147%
128	8.546	8.528	8.567	VV	839	15938	0.37%	0.134%
129	8.594	8.567	8.635	VV	1273	30315	0.70%	0.256%
130	8.656	8.635	8.688	VV	517	10681	0.25%	0.090%
131	8.708	8.688	8.730	VV	386	6800	0.16%	0.057%
132	8.742	8.730	8.750	VV	249	2615	0.06%	0.022%
133	8.776	8.750	8.795	VV	1238	17706	0.41%	0.149%
134	8.812	8.795	8.828	VV	876	12599	0.29%	0.106%
135	8.843	8.828	8.858	VV	669	11035	0.25%	0.093%
136	8.888	8.858	8.928	VV	1898	39464	0.91%	0.333%
137	8.935	8.928	8.946	VV	344	3255	0.07%	0.027%
138	8.962	8.946	8.987	VV	544	7780	0.18%	0.066%
139	9.011	8.987	9.045	VV	397	7217	0.17%	0.061%
140	9.070	9.045	9.100	VV	322	7107	0.16%	0.060%
141	9.115	9.100	9.125	VV	267	3394	0.08%	0.029%

rteres

142	9.132	9.125	9.144	VV	245	2431	0.06%	0.021%
143	9.174	9.144	9.218	VV	462	12582	0.29%	0.106%
144	9.241	9.218	9.276	VV	842	14155	0.33%	0.119%
145	9.297	9.276	9.354	VV	388	7856	0.18%	0.066%
146	9.382	9.354	9.415	VV	477	8244	0.19%	0.070%
147	9.433	9.415	9.475	VV	926	12976	0.30%	0.109%
148	9.484	9.475	9.507	VV	232	2604	0.06%	0.022%
149	9.523	9.507	9.539	VV	188	2255	0.05%	0.019%
150	9.572	9.539	9.611	VV	459	8759	0.20%	0.074%
151	9.654	9.611	9.707	VV	1409	24344	0.56%	0.205%
152	9.728	9.707	9.795	VV	280	9058	0.21%	0.076%
153	9.823	9.795	9.875	VV	169	4440	0.10%	0.037%
154	9.935	9.875	9.951	PV	142	3532	0.08%	0.030%
155	9.974	9.951	9.991	VV	311	4394	0.10%	0.037%
156	9.999	9.991	10.007	VV	203	1724	0.04%	0.015%
157	10.036	10.007	10.068	VV	390	9791	0.22%	0.083%
158	10.079	10.068	10.101	VV	253	3800	0.09%	0.032%
159	10.126	10.101	10.147	VV	248	5236	0.12%	0.044%
160	10.159	10.147	10.191	VV	295	4927	0.11%	0.042%
161	10.198	10.191	10.228	VV	134	1993	0.05%	0.017%
162	10.251	10.228	10.275	VV	303	5863	0.13%	0.049%
163	10.280	10.275	10.298	VV	239	2255	0.05%	0.019%
164	10.322	10.298	10.371	VV	440	10445	0.24%	0.088%
165	10.391	10.371	10.426	VV	550	11911	0.27%	0.100%
166	10.443	10.426	10.465	VV	342	6563	0.15%	0.055%
167	10.477	10.465	10.490	VV	345	4586	0.11%	0.039%
168	10.514	10.490	10.547	VV	836	13980	0.32%	0.118%
169	10.567	10.547	10.598	VV	225	4682	0.11%	0.040%
170	10.609	10.598	10.635	VV	215	2779	0.06%	0.023%
171	10.643	10.635	10.680	VV	124	1991	0.05%	0.017%
172	10.716	10.680	10.741	VV	275	5176	0.12%	0.044%
173	10.759	10.741	10.770	VV	257	2913	0.07%	0.025%
174	10.780	10.770	10.790	VV	246	2279	0.05%	0.019%
175	10.810	10.790	10.871	VV	392	9126	0.21%	0.077%
176	10.894	10.871	10.961	VV	246	4670	0.11%	0.039%
177	11.022	10.961	11.054	VV	2460	36874	0.85%	0.311%
178	11.093	11.054	11.165	VV	2318	44827	1.03%	0.378%
179	11.185	11.165	11.231	VV	943	15411	0.35%	0.130%
180	11.238	11.231	11.268	VV	141	2028	0.05%	0.017%
181	11.281	11.268	11.295	VV	116	1166	0.03%	0.010%
182	11.305	11.295	11.313	VV	118	818	0.02%	0.007%
183	11.328	11.313	11.355	VV	132	2137	0.05%	0.018%
184	11.407	11.355	11.431	VV	401	12310	0.28%	0.104%
185	11.443	11.431	11.460	VV	375	5506	0.13%	0.046%
186	11.477	11.460	11.515	VV	495	10792	0.25%	0.091%
187	11.546	11.515	11.623	VV	391	17163	0.39%	0.145%
188	11.757	11.623	11.778	VV	756	39104	0.90%	0.330%
189	11.793	11.778	11.818	VV	659	12640	0.29%	0.107%
190	11.843	11.818	11.871	VV	656	15786	0.36%	0.133%
191	11.890	11.871	11.933	VV	607	16965	0.39%	0.143%
192	11.975	11.933	12.011	VV	804	28402	0.65%	0.240%
193	12.029	12.011	12.053	VV	855	17122	0.39%	0.144%
194	12.070	12.053	12.086	VV	940	14127	0.32%	0.119%

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195	12.093	12.086	12.123	VV	640	12080	0.28%	0.102%
196	12.135	12.123	12.148	VV	603	7848	0.18%	0.066%
197	12.167	12.148	12.185	VV	687	12145	0.28%	0.102%
198	12.259	12.185	12.307	VV	1662	59411	1.36%	0.501%
199	12.338	12.307	12.362	VV	1719	34094	0.78%	0.288%
200	12.396	12.362	12.441	VV	2801	59456	1.37%	0.502%
201	12.464	12.441	12.491	VV	1062	25696	0.59%	0.217%
202	12.511	12.491	12.565	VV	815	29409	0.68%	0.248%
203	12.577	12.565	12.603	VV	719	13732	0.32%	0.116%
204	12.651	12.603	12.701	VV	990	47175	1.08%	0.398%
205	12.715	12.701	12.735	VV	972	17189	0.39%	0.145%
206	12.757	12.735	12.784	VV	959	25320	0.58%	0.214%
207	12.839	12.784	12.968	VV	332051	4352579	100.00%	36.725%
208	13.008	12.968	13.045	VV	1656	70064	1.61%	0.591%
209	13.072	13.045	13.175	VV	1777	103000	2.37%	0.869%
210	13.235	13.175	13.256	VV	1477	62627	1.44%	0.528%
211	13.282	13.256	13.338	VV	1547	67859	1.56%	0.573%
212	13.355	13.338	13.397	VV	1286	42212	0.97%	0.356%
213	13.445	13.397	13.483	VV	1593	72359	1.66%	0.611%
214	13.502	13.483	13.517	VV	1604	30830	0.71%	0.260%
215	13.539	13.517	13.567	VV	2084	50816	1.17%	0.429%
216	13.593	13.567	13.631	VV	2862	74816	1.72%	0.631%
217	13.652	13.631	13.761	VV	1704	100211	2.30%	0.846%
218	13.768	13.761	13.774	VV	1092	8474	0.19%	0.072%
219	13.816	13.774	13.871	VV	1541	79159	1.82%	0.668%
220	13.884	13.871	13.915	VV	1391	34234	0.79%	0.289%
221	13.918	13.915	13.954	VV	1338	28597	0.66%	0.241%
222	14.030	13.954	14.130	VV	1992	151836	3.49%	1.281%
223	14.155	14.130	14.185	VV	1566	44169	1.01%	0.373%
224	14.209	14.185	14.261	VV	1543	60934	1.40%	0.514%
225	14.274	14.261	14.341	VV	1304	55670	1.28%	0.470%
226	14.365	14.341	14.385	VV	1341	31534	0.72%	0.266%
227	14.402	14.385	14.425	VV	1308	29141	0.67%	0.246%
228	14.435	14.425	14.450	VV	1166	17315	0.40%	0.146%
229	14.465	14.450	14.488	VV	1193	25172	0.58%	0.212%
230	14.548	14.488	14.588	VV	1176	63054	1.45%	0.532%
231	14.597	14.588	14.605	VV	1066	10538	0.24%	0.089%
232	14.650	14.605	14.675	VV	1590	50156	1.15%	0.423%
233	14.693	14.675	14.735	VV	2343	51099	1.17%	0.431%
234	14.747	14.735	14.815	VV	1098	40212	0.92%	0.339%
235	14.832	14.815	14.848	VV	702	12626	0.29%	0.107%
236	14.862	14.848	14.876	VV	717	11892	0.27%	0.100%
237	14.895	14.876	14.915	VV	779	16194	0.37%	0.137%
238	14.927	14.915	15.031	VV	697	38524	0.89%	0.325%
239	15.035	15.031	15.078	VV	524	13243	0.30%	0.112%
240	15.082	15.078	15.094	VV	550	4585	0.11%	0.039%
241	15.105	15.094	15.167	VV	601	20279	0.47%	0.171%
242	15.215	15.167	15.305	VV	651	31302	0.72%	0.264%
243	15.324	15.305	15.375	VV	246	9092	0.21%	0.077%
244	15.395	15.375	15.431	VV	319	8791	0.20%	0.074%
245	15.446	15.431	15.475	VV	261	4797	0.11%	0.040%
246	15.534	15.475	15.608	VV	294	16994	0.39%	0.143%

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247	15.676	15.645	15.691	VV	542	9351	0.21%	0.079%
248	15.713	15.691	15.828	VV	1144	25472	0.59%	0.215%
249	15.891	15.828	15.958	VV	220	7222	0.17%	0.061%
250	15.968	15.958	16.013	PV	61	2015	0.05%	0.017%
251	16.029	16.013	16.074	VV	150	3294	0.08%	0.028%
252	16.093	16.074	16.132	VV	84	1936	0.04%	0.016%
253	16.196	16.132	16.235	PV	518	11797	0.27%	0.100%
254	16.245	16.235	16.301	VV	200	4333	0.10%	0.037%
255	16.401	16.301	16.461	PV	230	12523	0.29%	0.106%
256	16.489	16.461	16.528	VV	161	4927	0.11%	0.042%
257	16.564	16.528	16.597	VV	223	6722	0.15%	0.057%
258	16.662	16.597	16.747	VV	1379	34702	0.80%	0.293%
259	16.858	16.747	16.908	PV	157	8822	0.20%	0.074%
260	16.953	16.908	17.017	PV	189	6829	0.16%	0.058%
261	17.042	17.017	17.066	VV	148	3216	0.07%	0.027%
262	17.112	17.066	17.161	VV	1359	24237	0.56%	0.205%
263	17.215	17.161	17.271	VV	272	8535	0.20%	0.072%
264	17.396	17.271	17.471	PV	123	7141	0.16%	0.060%
265	17.548	17.471	17.590	PV	1695	33889	0.78%	0.286%
266	17.666	17.590	17.682	VV	169	5305	0.12%	0.045%
267	17.703	17.682	17.796	VV	150	4841	0.11%	0.041%
268	17.828	17.796	17.863	PV	219	5276	0.12%	0.045%
269	17.882	17.863	17.897	VV	109	1429	0.03%	0.012%
270	17.970	17.897	18.016	PV	1910	33770	0.78%	0.285%
271	18.243	18.016	18.270	VV	117	7054	0.16%	0.060%
272	18.379	18.270	18.458	VV	1684	36408	0.84%	0.307%
273	18.544	18.458	18.570	VV	122	4129	0.09%	0.035%
274	18.591	18.570	18.608	VV	56	1027	0.02%	0.009%
275	18.777	18.608	18.856	PV	1277	27389	0.63%	0.231%
276	18.956	18.856	18.986	VV	232	6073	0.14%	0.051%
277	19.163	18.986	19.222	VV	1388	34262	0.79%	0.289%
278	19.471	19.222	19.496	VV	555	46256	1.06%	0.390%
279	19.538	19.496	19.581	VV	1136	33914	0.78%	0.286%
280	19.903	19.581	19.933	VV	1893	183501	4.22%	1.548%
281	19.965	19.933	19.985	VV	1480	42132	0.97%	0.355%
282	20.262	19.985	20.285	VV	2382	309319	7.11%	2.610%
283	20.433	20.285	20.459	VV	2825	256484	5.89%	2.164%
284	20.616	20.459	20.670	VV	2998	325748	7.48%	2.749%
285	20.941	20.670	20.990	VV	2396	438128	10.07%	3.697%
286	21.015	20.990	21.050	VV	2139	75071	1.72%	0.633%
287	21.192	21.050	21.230	VV	1914	206233	4.74%	1.740%
288	21.239	21.230	21.251	VV	1824	23176	0.53%	0.196%
289	21.304	21.251	21.327	VV	1701	77887	1.79%	0.657%
290	21.350	21.327	21.376	VV	1647	47559	1.09%	0.401%
291	21.391	21.376	21.428	VV	1595	47695	1.10%	0.402%
292	21.468	21.428	21.507	VV	1600	72898	1.67%	0.615%
293	21.538	21.507	21.605	VV	1579	82479	1.89%	0.696%
294	21.624	21.605	21.703	VV	1235	64551	1.48%	0.545%
295	21.788	21.703	21.818	VV	941	63671	1.46%	0.537%
296	21.848	21.818	21.923	VV	775	40963	0.94%	0.346%
297	21.991	21.923	22.116	VV	504	40909	0.94%	0.345%
298	22.133	22.116	22.183	VV	118	2699	0.06%	0.023%

Sum of corrected areas: 11851793

rteres

Aliphatic EPH 021125.M Sat Mar 01 01:26:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049135.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:18:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	7538273	52.675 ug/ml
Spiked Amount 50.000		Recovery = 105.35%	
6) S 2-Flurobiphenyl (SURR)	8.202	4320522	49.146 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 98.29%	
11) S ortho-Terphenyl (SURR)	11.235	6363238	39.334 ug/ml
Spiked Amount 50.000		Recovery = 78.67%	
Target Compounds			

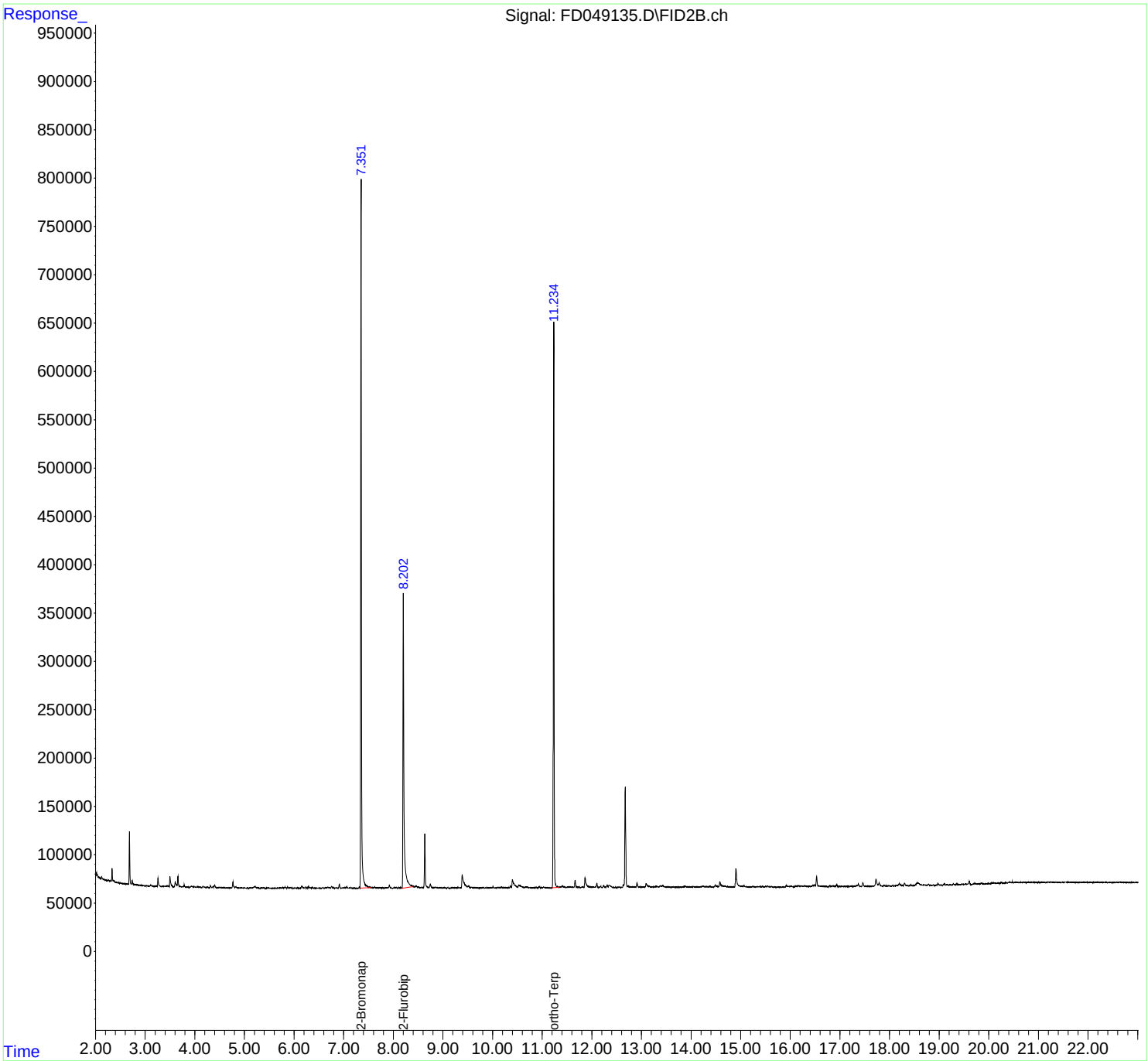
(f)=RT Delta > 1/2 Window (m)=manual int.

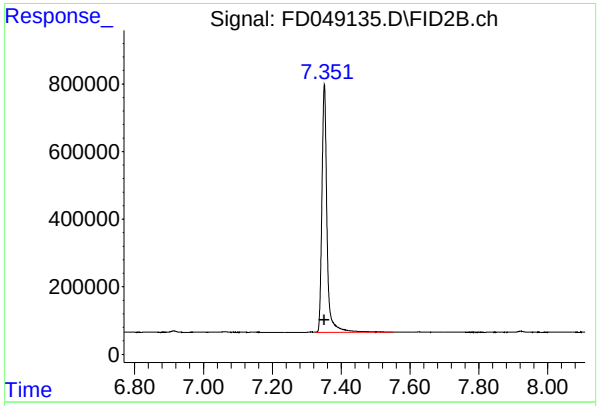
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049135.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:18:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

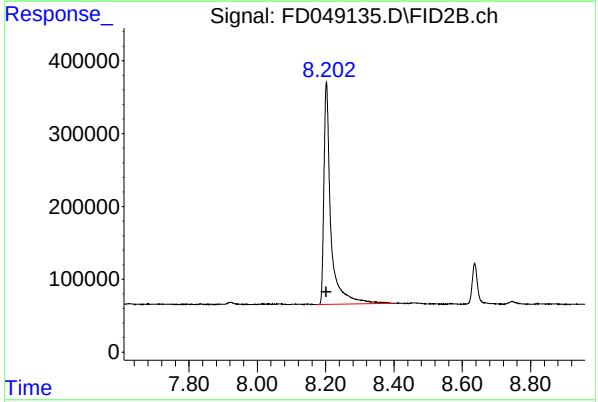




#4 2-Bromonaphthalene (SURR)

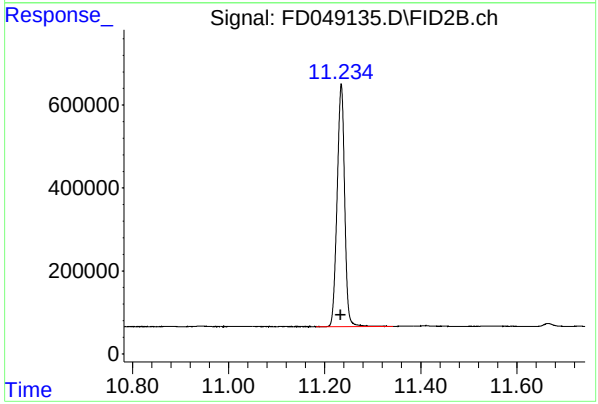
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 7538273
Conc: 52.67 ug/ml

Instrument :
FID_D
ClientSampleId :
B-163-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4320522
Conc: 49.15 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.001 min
Response: 6363238
Conc: 39.33 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049135.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:03
Sample : Q1415-03
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.058	4.042	4.117	PH	846	17566	0.23%	0.064%
2	4.123	4.117	4.144	PV	211	1271	0.02%	0.005%
3	4.165	4.144	4.215	PV	1356	25293	0.33%	0.092%
4	4.220	4.215	4.235	VV	293	2463	0.03%	0.009%
5	4.261	4.235	4.292	VV	578	8855	0.12%	0.032%
6	4.317	4.292	4.345	VV	2060	25198	0.33%	0.091%
7	4.348	4.345	4.357	VV	410	1751	0.02%	0.006%
8	4.372	4.357	4.386	VV	1630	17668	0.23%	0.064%
9	4.401	4.386	4.444	VV	3036	39030	0.51%	0.141%
10	4.456	4.444	4.469	VV	276	3157	0.04%	0.011%
11	4.484	4.469	4.490	VV	442	3828	0.05%	0.014%
12	4.495	4.490	4.534	VV	537	10164	0.13%	0.037%
13	4.537	4.534	4.549	VV	156	1023	0.01%	0.004%
14	4.559	4.549	4.564	VV	286	1571	0.02%	0.006%
15	4.583	4.564	4.602	VV	461	5518	0.07%	0.020%
16	4.606	4.602	4.619	VV	249	1389	0.02%	0.005%
17	4.642	4.619	4.658	PV	211	1854	0.02%	0.007%
18	4.671	4.658	4.679	VV	235	1039	0.01%	0.004%
19	4.695	4.679	4.702	VV	385	2715	0.04%	0.010%
20	4.709	4.702	4.715	VV	222	1555	0.02%	0.006%
21	4.718	4.715	4.731	VV	293	1176	0.02%	0.004%
22	4.768	4.731	4.811	PV	6399	87033	1.14%	0.315%
23	4.828	4.811	4.881	VV	1420	25709	0.34%	0.093%
24	4.890	4.881	4.895	VV	285	1886	0.02%	0.007%
25	4.903	4.895	4.925	VV	296	3832	0.05%	0.014%
26	4.931	4.925	4.946	VV	202	1645	0.02%	0.006%
27	4.970	4.957	4.985	VV	428	4307	0.06%	0.016%
28	5.010	4.985	5.039	PV	242	4549	0.06%	0.016%
29	5.046	5.039	5.054	VV	164	1119	0.01%	0.004%
30	5.067	5.054	5.082	VV	280	2668	0.03%	0.010%
31	5.096	5.082	5.104	VV	312	2221	0.03%	0.008%
32	5.120	5.104	5.132	VV	457	5943	0.08%	0.022%
33	5.137	5.132	5.169	VV	529	8958	0.12%	0.032%
34	5.189	5.169	5.199	VV	1242	15687	0.21%	0.057%
35	5.214	5.199	5.254	VV	2042	33781	0.44%	0.122%
36	5.275	5.254	5.287	VV	643	9337	0.12%	0.034%

rteres

37	5.290	5.287	5.299	VV	368	2025	0.03%	0.007%
38	5.339	5.299	5.345	VV	466	6891	0.09%	0.025%
39	5.350	5.345	5.376	VV	427	5560	0.07%	0.020%
40	5.395	5.376	5.400	VV	369	3722	0.05%	0.013%
41	5.405	5.400	5.429	VV	373	3807	0.05%	0.014%
42	5.441	5.439	5.455	VV	281	1553	0.02%	0.006%
43	5.470	5.455	5.494	VV	500	6228	0.08%	0.023%
44	5.499	5.494	5.512	VV	199	1594	0.02%	0.006%
45	5.517	5.512	5.533	VV	339	1379	0.02%	0.005%
46	5.544	5.533	5.569	VV	294	2684	0.04%	0.010%
47	5.579	5.569	5.590	PV	216	1941	0.03%	0.007%
48	5.598	5.590	5.609	VV	255	1855	0.02%	0.007%
49	5.619	5.609	5.650	VV	215	3914	0.05%	0.014%
50	5.690	5.650	5.700	VV	361	5672	0.07%	0.021%
51	5.724	5.700	5.728	VV	487	5457	0.07%	0.020%
52	5.734	5.728	5.758	VV	457	6381	0.08%	0.023%
53	5.777	5.758	5.792	VV	740	10369	0.14%	0.038%
54	5.817	5.792	5.840	VV	1365	20801	0.27%	0.075%
55	5.845	5.840	5.855	VV	509	3956	0.05%	0.014%
56	5.872	5.855	5.900	VV	1544	21913	0.29%	0.079%
57	5.928	5.900	5.949	VV	652	14244	0.19%	0.052%
58	5.951	5.949	5.984	VV	459	6393	0.08%	0.023%
59	5.997	5.984	6.020	VV	336	4736	0.06%	0.017%
60	6.035	6.020	6.049	VV	380	4137	0.05%	0.015%
61	6.079	6.049	6.111	VV	371	7742	0.10%	0.028%
62	6.121	6.111	6.129	VV	420	3415	0.04%	0.012%
63	6.155	6.129	6.207	VV	2641	49541	0.65%	0.179%
64	6.223	6.207	6.249	VV	1262	16930	0.22%	0.061%
65	6.266	6.249	6.276	VV	758	9762	0.13%	0.035%
66	6.294	6.276	6.348	VV	1930	36846	0.48%	0.133%
67	6.368	6.348	6.452	VV	1075	24850	0.33%	0.090%
68	6.468	6.452	6.481	VV	377	4731	0.06%	0.017%
69	6.489	6.481	6.527	VV	312	7074	0.09%	0.026%
70	6.542	6.527	6.565	VV	311	6296	0.08%	0.023%
71	6.581	6.565	6.611	VV	1154	14998	0.20%	0.054%
72	6.633	6.611	6.660	VV	907	19462	0.26%	0.070%
73	6.680	6.660	6.693	VV	1286	19141	0.25%	0.069%
74	6.703	6.693	6.729	VV	1130	16552	0.22%	0.060%
75	6.757	6.729	6.820	VV	2099	44346	0.58%	0.160%
76	6.839	6.820	6.854	VV	694	11206	0.15%	0.041%
77	6.857	6.854	6.884	VV	689	8436	0.11%	0.031%
78	6.913	6.884	6.954	VV	4343	56966	0.75%	0.206%
79	6.982	6.954	7.014	VV	880	20332	0.27%	0.074%
80	7.025	7.014	7.039	VV	959	10319	0.14%	0.037%
81	7.062	7.039	7.099	VV	2057	32751	0.43%	0.119%
82	7.115	7.099	7.132	VV	666	10164	0.13%	0.037%
83	7.146	7.132	7.174	VV	981	12985	0.17%	0.047%
84	7.180	7.174	7.193	VV	295	2555	0.03%	0.009%
85	7.220	7.193	7.242	VV	352	6703	0.09%	0.024%
86	7.270	7.242	7.283	PV	240	3777	0.05%	0.014%
87	7.315	7.283	7.327	VV	1461	17000	0.22%	0.062%
88	7.351	7.327	7.570	VV	737418	7628977	100.00%	27.606%
89	7.582	7.570	7.599	VV	1040	14763	0.19%	0.053%

rteres

90	7.626	7.599	7.661	VV	1572	30444	0.40%	0.110%
91	7.680	7.661	7.699	VV	854	14749	0.19%	0.053%
92	7.713	7.699	7.774	VV	877	26483	0.35%	0.096%
93	7.789	7.774	7.819	VV	449	10978	0.14%	0.040%
94	7.834	7.819	7.851	VV	872	11300	0.15%	0.041%
95	7.865	7.851	7.874	VV	528	6160	0.08%	0.022%
96	7.890	7.874	7.900	VV	804	9357	0.12%	0.034%
97	7.922	7.900	7.984	VV	3372	55877	0.73%	0.202%
98	8.029	7.984	8.048	VV	938	24252	0.32%	0.088%
99	8.066	8.048	8.094	VV	997	17884	0.23%	0.065%
100	8.115	8.094	8.134	VV	673	12752	0.17%	0.046%
101	8.146	8.134	8.177	VV	964	11869	0.16%	0.043%
102	8.203	8.177	8.399	VV	305278	4459132	58.45%	16.136%
103	8.412	8.399	8.442	VV	2214	49489	0.65%	0.179%
104	8.458	8.442	8.502	VV	2308	63265	0.83%	0.229%
105	8.516	8.502	8.554	VV	1239	30303	0.40%	0.110%
106	8.566	8.554	8.593	VV	1306	23034	0.30%	0.083%
107	8.636	8.593	8.718	VV	56174	659890	8.65%	2.388%
108	8.746	8.718	8.807	VV	4287	88987	1.17%	0.322%
109	8.822	8.807	8.856	VV	1213	26457	0.35%	0.096%
110	8.869	8.856	8.904	VV	1019	20437	0.27%	0.074%
111	8.946	8.904	8.997	VV	661	27681	0.36%	0.100%
112	9.020	8.997	9.075	VV	761	21374	0.28%	0.077%
113	9.092	9.075	9.145	VV	961	17997	0.24%	0.065%
114	9.181	9.145	9.216	PV	614	17290	0.23%	0.063%
115	9.239	9.216	9.274	VV	739	17041	0.22%	0.062%
116	9.298	9.274	9.314	VV	818	15132	0.20%	0.055%
117	9.336	9.314	9.344	VV	675	9307	0.12%	0.034%
118	9.358	9.344	9.368	VV	751	8619	0.11%	0.031%
119	9.390	9.368	9.497	VV	13936	398250	5.22%	1.441%
120	9.516	9.497	9.565	VV	2404	59424	0.78%	0.215%
121	9.581	9.565	9.628	VV	937	27933	0.37%	0.101%
122	9.655	9.628	9.675	VV	537	12250	0.16%	0.044%
123	9.682	9.675	9.735	VV	408	10716	0.14%	0.039%
124	9.790	9.735	9.798	PV	536	12834	0.17%	0.046%
125	9.820	9.798	9.847	VV	707	13742	0.18%	0.050%
126	9.856	9.847	9.867	VV	266	2544	0.03%	0.009%
127	9.890	9.867	9.924	VV	535	12128	0.16%	0.044%
128	9.935	9.924	9.980	VV	588	13288	0.17%	0.048%
129	10.012	9.980	10.064	VV	1508	26833	0.35%	0.097%
130	10.103	10.064	10.120	VV	759	15688	0.21%	0.057%
131	10.133	10.120	10.147	VV	798	9636	0.13%	0.035%
132	10.179	10.147	10.208	VV	1023	24342	0.32%	0.088%
133	10.247	10.208	10.282	VV	791	23974	0.31%	0.087%
134	10.323	10.282	10.339	VV	712	17793	0.23%	0.064%
135	10.362	10.339	10.381	VV	1972	28674	0.38%	0.104%
136	10.403	10.381	10.509	VV	8812	263436	3.45%	0.953%
137	10.532	10.509	10.647	VV	3091	136549	1.79%	0.494%
138	10.663	10.647	10.733	VV	1238	41251	0.54%	0.149%
139	10.745	10.733	10.775	VV	594	10984	0.14%	0.040%
140	10.780	10.775	10.792	VV	490	2874	0.04%	0.010%
141	10.814	10.792	10.835	VV	393	6097	0.08%	0.022%

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142	10.842	10.835	10.855	VV	414	2308	0.03%	0.008%
143	10.877	10.855	10.901	VV	832	12222	0.16%	0.044%
144	10.943	10.901	10.975	VV	1651	27406	0.36%	0.099%
145	11.030	10.975	11.098	VV	892	29237	0.38%	0.106%
146	11.118	11.098	11.139	VV	405	5430	0.07%	0.020%
147	11.151	11.139	11.198	VV	360	5607	0.07%	0.020%
148	11.235	11.198	11.342	VV	583805	6397440	83.86%	23.150%
149	11.362	11.342	11.381	VV	1295	25615	0.34%	0.093%
150	11.409	11.381	11.437	VV	2249	48442	0.63%	0.175%
151	11.448	11.437	11.482	VV	1207	22904	0.30%	0.083%
152	11.534	11.482	11.544	VV	1138	31819	0.42%	0.115%
153	11.550	11.544	11.583	VV	1262	24728	0.32%	0.089%
154	11.590	11.583	11.627	VV	945	19388	0.25%	0.070%
155	11.665	11.627	11.709	VV	7747	120774	1.58%	0.437%
156	11.729	11.709	11.772	VV	1101	25974	0.34%	0.094%
157	11.816	11.772	11.845	VV	1246	32648	0.43%	0.118%
158	11.865	11.845	12.007	VV	10492	261152	3.42%	0.945%
159	12.013	12.007	12.057	VV	870	20890	0.27%	0.076%
160	12.103	12.057	12.130	VV	4497	75897	0.99%	0.275%
161	12.149	12.130	12.158	VV	665	8587	0.11%	0.031%
162	12.180	12.158	12.205	VV	1683	24331	0.32%	0.088%
163	12.241	12.205	12.289	VV	2520	52824	0.69%	0.191%
164	12.309	12.289	12.330	VV	2984	42597	0.56%	0.154%
165	12.350	12.330	12.440	VV	2810	93877	1.23%	0.340%
166	12.444	12.440	12.465	VV	488	5140	0.07%	0.019%
167	12.508	12.465	12.526	VV	598	15474	0.20%	0.056%
168	12.554	12.526	12.582	VV	596	16648	0.22%	0.060%
169	12.596	12.582	12.613	VV	677	8875	0.12%	0.032%
170	12.637	12.613	12.645	VV	2984	36169	0.47%	0.131%
171	12.676	12.645	12.802	VV	104229	1328438	17.41%	4.807%
172	12.816	12.802	12.837	VV	844	15558	0.20%	0.056%
173	12.846	12.837	12.853	VV	955	7894	0.10%	0.029%
174	12.860	12.853	12.879	VV	927	12124	0.16%	0.044%
175	12.911	12.879	12.951	VV	4912	80827	1.06%	0.292%
176	12.958	12.951	12.968	VV	713	6733	0.09%	0.024%
177	12.998	12.968	13.012	VV	843	17337	0.23%	0.063%
178	13.036	13.012	13.048	VV	890	16016	0.21%	0.058%
179	13.057	13.048	13.067	VV	840	9015	0.12%	0.033%
180	13.095	13.067	13.194	VV	4152	139078	1.82%	0.503%
181	13.229	13.194	13.237	VV	1008	21532	0.28%	0.078%
182	13.256	13.237	13.270	VV	1031	18485	0.24%	0.067%
183	13.300	13.270	13.354	VV	1375	51623	0.68%	0.187%
184	13.385	13.354	13.410	VV	2090	50252	0.66%	0.182%
185	13.430	13.410	13.507	VV	2606	68250	0.89%	0.247%
186	13.528	13.507	13.575	VV	862	25049	0.33%	0.091%
187	13.591	13.575	13.630	VV	728	16347	0.21%	0.059%
188	13.650	13.630	13.659	VV	676	9268	0.12%	0.034%
189	13.666	13.659	13.685	VV	528	7715	0.10%	0.028%
190	13.692	13.685	13.714	VV	507	8192	0.11%	0.030%
191	13.721	13.714	13.753	VV	455	8440	0.11%	0.031%
192	13.765	13.753	13.780	VV	389	5245	0.07%	0.019%
193	13.794	13.780	13.805	VV	491	5379	0.07%	0.019%
194	13.838	13.805	13.855	VV	1005	20621	0.27%	0.075%

rteres

195	13.878	13.855	13.927	VV	1458	41707	0.55%	0.151%
196	13.946	13.927	13.975	VV	691	17495	0.23%	0.063%
197	13.998	13.975	14.017	VV	719	16109	0.21%	0.058%
198	14.050	14.017	14.097	VV	833	32130	0.42%	0.116%
199	14.104	14.097	14.141	VV	738	17020	0.22%	0.062%
200	14.158	14.141	14.170	VV	869	12249	0.16%	0.044%
201	14.193	14.170	14.218	VV	928	22630	0.30%	0.082%
202	14.242	14.218	14.352	VV	1289	73084	0.96%	0.264%
203	14.373	14.352	14.442	VV	1453	41362	0.54%	0.150%
204	14.489	14.442	14.517	VV	2019	55921	0.73%	0.202%
205	14.527	14.517	14.549	VV	1630	23380	0.31%	0.085%
206	14.582	14.549	14.671	VV	5547	168474	2.21%	0.610%
207	14.692	14.671	14.735	VV	1536	43099	0.56%	0.156%
208	14.752	14.735	14.774	VV	824	17004	0.22%	0.062%
209	14.782	14.774	14.824	VV	673	15125	0.20%	0.055%
210	14.833	14.824	14.853	VV	493	7860	0.10%	0.028%
211	14.860	14.853	14.871	VV	451	4515	0.06%	0.016%
212	14.904	14.871	14.980	VV	19220	366877	4.81%	1.328%
213	14.986	14.980	15.047	VV	1562	50737	0.67%	0.184%
214	15.067	15.047	15.159	VV	1804	59826	0.78%	0.216%
215	15.165	15.159	15.178	VV	635	6550	0.09%	0.024%
216	15.187	15.178	15.222	VV	664	12802	0.17%	0.046%
217	15.247	15.222	15.295	VV	878	27355	0.36%	0.099%
218	15.388	15.295	15.413	VV	886	47586	0.62%	0.172%
219	15.432	15.413	15.482	VV	1099	31225	0.41%	0.113%
220	15.506	15.482	15.522	VV	1067	18938	0.25%	0.069%
221	15.543	15.522	15.601	VV	1596	35984	0.47%	0.130%
222	15.615	15.601	15.660	VV	714	13479	0.18%	0.049%
223	15.704	15.660	15.720	VV	337	7279	0.10%	0.026%
224	15.740	15.720	15.787	VV	255	5908	0.08%	0.021%
225	15.795	15.787	15.814	VV	310	2415	0.03%	0.009%
226	15.853	15.814	15.895	PV	260	8344	0.11%	0.030%
227	15.923	15.895	15.967	VV	1812	42621	0.56%	0.154%
228	15.984	15.967	16.005	VV	919	17191	0.23%	0.062%
229	16.019	16.005	16.054	VV	1069	21826	0.29%	0.079%
230	16.059	16.054	16.070	VV	464	3941	0.05%	0.014%
231	16.112	16.070	16.132	VV	1575	30868	0.40%	0.112%
232	16.171	16.132	16.199	VV	1431	46558	0.61%	0.168%
233	16.226	16.199	16.262	VV	1317	38874	0.51%	0.141%
234	16.295	16.262	16.352	VV	1317	47387	0.62%	0.171%
235	16.372	16.352	16.385	VV	750	12169	0.16%	0.044%
236	16.394	16.385	16.431	VV	846	18096	0.24%	0.065%
237	16.454	16.431	16.472	VV	1943	32716	0.43%	0.118%
238	16.488	16.472	16.504	VV	2226	34095	0.45%	0.123%
239	16.529	16.504	16.559	VV	10874	155336	2.04%	0.562%
240	16.577	16.559	16.604	VV	1313	26462	0.35%	0.096%
241	16.613	16.604	16.624	VV	833	8517	0.11%	0.031%
242	16.650	16.624	16.695	VV	924	30178	0.40%	0.109%
243	16.708	16.695	16.729	VV	568	9795	0.13%	0.035%
244	16.732	16.729	16.750	VV	547	4966	0.07%	0.018%
245	16.800	16.750	16.829	VV	1339	29310	0.38%	0.106%
246	16.861	16.829	16.900	VV	1184	32760	0.43%	0.119%

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247	16.935	16.900	16.965	VV	2249	43729	0.57%	0.158%
248	16.973	16.965	16.987	VV	544	5915	0.08%	0.021%
249	16.994	16.987	17.006	VV	567	5223	0.07%	0.019%
250	17.033	17.006	17.050	VV	595	13001	0.17%	0.047%
251	17.068	17.050	17.157	VV	662	21877	0.29%	0.079%
252	17.170	17.157	17.200	VV	426	7059	0.09%	0.026%
253	17.215	17.200	17.224	VV	256	3513	0.05%	0.013%
254	17.242	17.224	17.275	VV	458	11249	0.15%	0.041%
255	17.342	17.275	17.354	VV	1409	33970	0.45%	0.123%
256	17.369	17.354	17.402	VV	2632	39224	0.51%	0.142%
257	17.418	17.402	17.437	VV	334	6300	0.08%	0.023%
258	17.462	17.437	17.507	VV	4044	66692	0.87%	0.241%
259	17.520	17.507	17.557	VV	581	11534	0.15%	0.042%
260	17.574	17.557	17.620	VV	488	10016	0.13%	0.036%
261	17.664	17.620	17.685	PV	795	15290	0.20%	0.055%
262	17.727	17.685	17.772	VV	7499	163540	2.14%	0.592%
263	17.791	17.772	17.857	VV	3303	72176	0.95%	0.261%
264	17.891	17.857	17.932	VV	794	22131	0.29%	0.080%
265	17.937	17.932	17.959	VV	344	3367	0.04%	0.012%
266	17.993	17.959	18.017	VV	495	8697	0.11%	0.031%
267	18.028	18.017	18.035	VV	213	1345	0.02%	0.005%
268	18.079	18.035	18.090	VV	266	5570	0.07%	0.020%
269	18.097	18.090	18.109	VV	180	1520	0.02%	0.006%
270	18.197	18.109	18.222	PV	2313	53580	0.70%	0.194%
271	18.234	18.222	18.270	VV	751	9014	0.12%	0.033%

Sum of corrected areas: 27634860

Aromatic EPH 021125.M Sat Mar 01 03:58:39 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068328.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.840	3923025	34.879 ug/ml
Spiked Amount 50.000		Recovery = 69.76%	
Target Compounds			

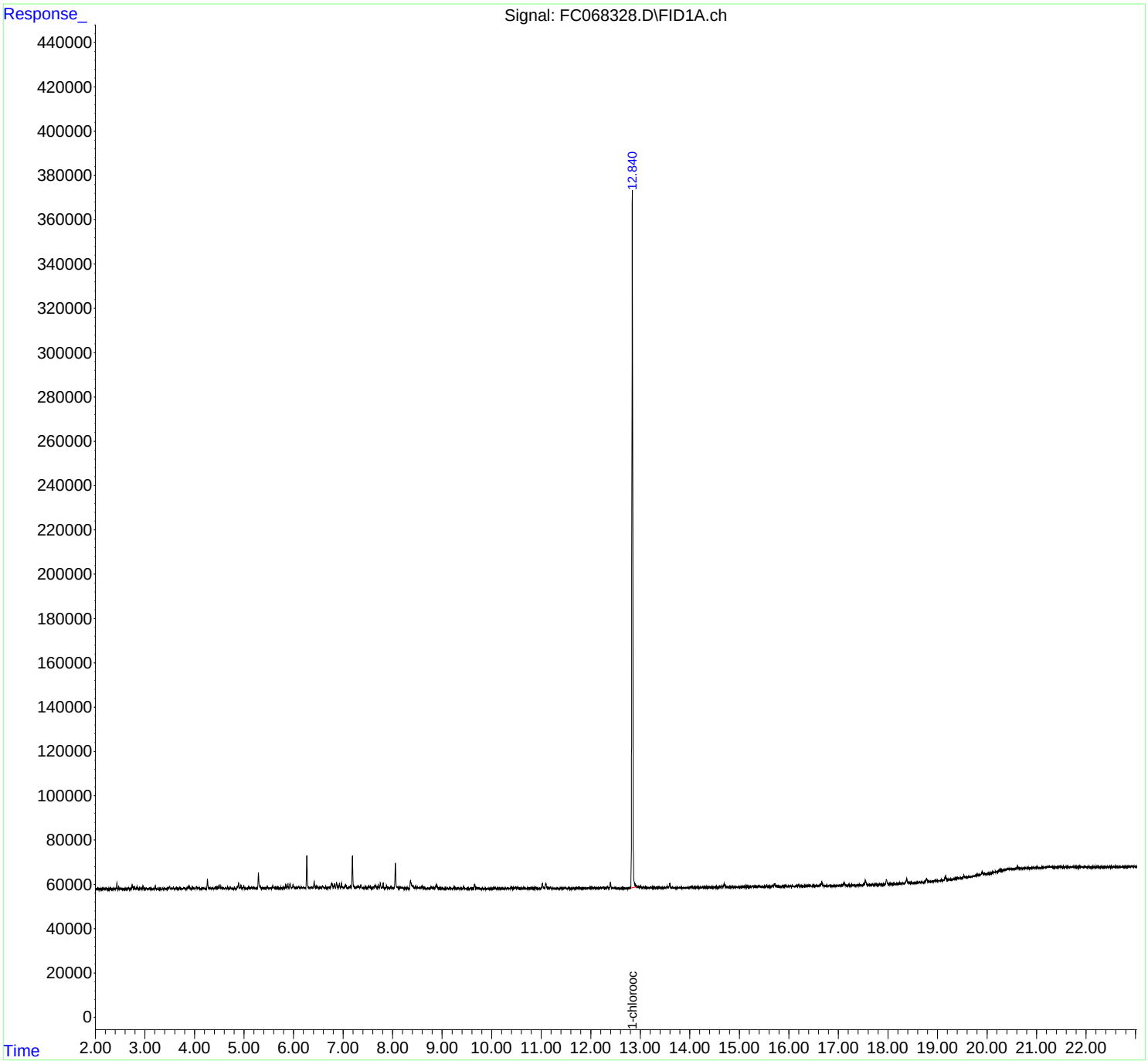
(f)=RT Delta > 1/2 Window (m)=manual int.

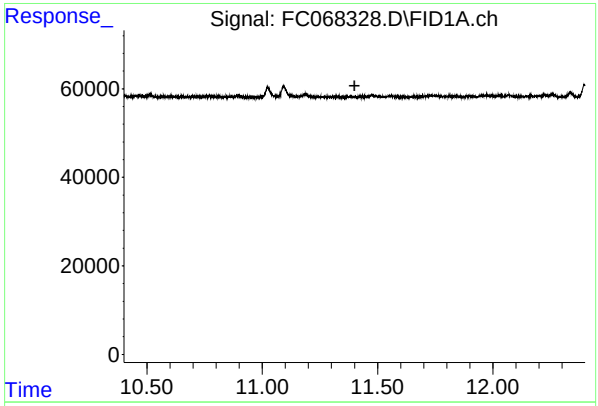
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068328.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

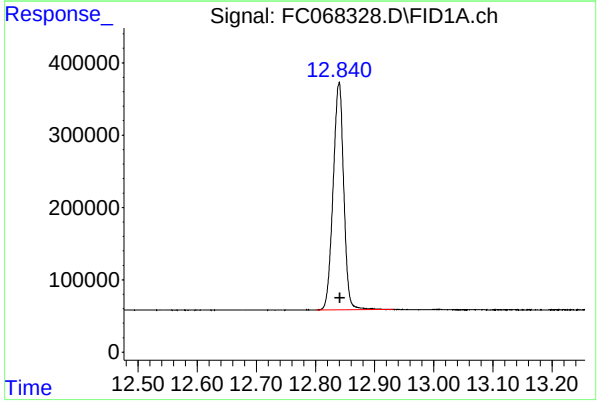




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-172-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 3923025
Conc: 34.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068328.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:40
Sample : Q1415-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.318	2.304	2.347	BV	84	1007	0.03%	0.009%
2	2.360	2.347	2.384	VV	271	2161	0.05%	0.020%
3	2.390	2.384	2.408	PV	72	640	0.02%	0.006%
4	2.432	2.408	2.451	VV	2653	21047	0.53%	0.192%
5	2.473	2.451	2.516	VV	997	10537	0.26%	0.096%
6	2.527	2.516	2.544	VV	111	1543	0.04%	0.014%
7	2.558	2.544	2.581	VV	192	2676	0.07%	0.024%
8	2.593	2.581	2.628	VV	190	2543	0.06%	0.023%
9	2.655	2.628	2.684	VV	675	8637	0.22%	0.079%
10	2.695	2.684	2.702	VV	181	1357	0.03%	0.012%
11	2.708	2.702	2.720	VV	186	1346	0.03%	0.012%
12	2.742	2.720	2.773	VV	1766	25096	0.63%	0.229%
13	2.788	2.773	2.820	VV	793	10037	0.25%	0.091%
14	2.839	2.820	2.885	VV	1008	14166	0.36%	0.129%
15	2.895	2.885	2.901	VV	218	1603	0.04%	0.015%
16	2.917	2.901	2.931	VV	417	5306	0.13%	0.048%
17	2.961	2.931	3.008	VV	1244	17577	0.44%	0.160%
18	3.029	3.008	3.094	VV	329	8339	0.21%	0.076%
19	3.104	3.094	3.121	VV	154	1646	0.04%	0.015%
20	3.123	3.121	3.132	VV	123	429	0.01%	0.004%
21	3.145	3.132	3.175	PV	151	2509	0.06%	0.023%
22	3.207	3.175	3.241	VV	1413	17826	0.45%	0.162%
23	3.248	3.241	3.268	VV	145	2048	0.05%	0.019%
24	3.278	3.268	3.291	VV	99	1041	0.03%	0.009%
25	3.323	3.291	3.361	VV	227	5288	0.13%	0.048%
26	3.405	3.361	3.432	VV	338	6989	0.18%	0.064%
27	3.465	3.432	3.488	VV	544	9890	0.25%	0.090%
28	3.499	3.488	3.550	VV	1345	17076	0.43%	0.156%
29	3.573	3.550	3.594	VV	772	9584	0.24%	0.087%
30	3.627	3.594	3.674	VV	273	8684	0.22%	0.079%
31	3.693	3.674	3.706	VV	406	4783	0.12%	0.044%
32	3.710	3.706	3.722	VV	287	2357	0.06%	0.021%
33	3.732	3.722	3.760	VV	300	3936	0.10%	0.036%
34	3.779	3.760	3.828	VV	495	12436	0.31%	0.113%
35	3.865	3.828	3.878	VV	1094	15139	0.38%	0.138%
36	3.893	3.878	3.911	VV	1469	16383	0.41%	0.149%

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37	3.924	3.911	3.939	VV	425	5901	0.15%	0.054%
38	3.959	3.939	3.999	VV	1200	16210	0.41%	0.148%
39	4.039	3.999	4.054	VV	971	17891	0.45%	0.163%
40	4.066	4.054	4.138	VV	574	15534	0.39%	0.142%
41	4.172	4.138	4.201	VV	396	9871	0.25%	0.090%
42	4.212	4.201	4.234	VV	441	5765	0.14%	0.053%
43	4.262	4.234	4.315	VV	4640	59446	1.49%	0.542%
44	4.328	4.315	4.348	VV	396	5947	0.15%	0.054%
45	4.364	4.348	4.393	VV	551	8497	0.21%	0.077%
46	4.427	4.393	4.444	VV	1010	17681	0.44%	0.161%
47	4.456	4.444	4.471	VV	709	9163	0.23%	0.083%
48	4.484	4.471	4.496	VV	814	9574	0.24%	0.087%
49	4.513	4.496	4.528	VV	2005	20567	0.52%	0.187%
50	4.538	4.528	4.553	VV	852	9318	0.23%	0.085%
51	4.567	4.553	4.581	VV	633	8310	0.21%	0.076%
52	4.586	4.581	4.602	VV	547	5263	0.13%	0.048%
53	4.630	4.602	4.648	VV	694	12468	0.31%	0.114%
54	4.668	4.648	4.688	VV	596	11486	0.29%	0.105%
55	4.724	4.688	4.763	VV	973	18915	0.48%	0.172%
56	4.779	4.763	4.798	VV	403	5878	0.15%	0.054%
57	4.812	4.798	4.834	VV	590	8279	0.21%	0.075%
58	4.891	4.834	4.918	VV	2728	52711	1.33%	0.480%
59	4.936	4.918	4.978	VV	1749	29690	0.75%	0.271%
60	4.997	4.978	5.032	VV	1555	21824	0.55%	0.199%
61	5.053	5.032	5.071	VV	371	6291	0.16%	0.057%
62	5.089	5.071	5.122	VV	773	16695	0.42%	0.152%
63	5.148	5.122	5.164	VV	802	14090	0.35%	0.128%
64	5.178	5.164	5.193	VV	662	8732	0.22%	0.080%
65	5.204	5.193	5.225	VV	534	8189	0.21%	0.075%
66	5.235	5.225	5.253	VV	431	6101	0.15%	0.056%
67	5.291	5.253	5.322	VV	7313	93239	2.34%	0.850%
68	5.330	5.322	5.354	VV	1078	14453	0.36%	0.132%
69	5.408	5.354	5.424	VV	497	16534	0.42%	0.151%
70	5.468	5.424	5.513	VV	1370	33983	0.85%	0.310%
71	5.539	5.513	5.555	VV	609	11250	0.28%	0.103%
72	5.581	5.555	5.615	VV	1344	26551	0.67%	0.242%
73	5.636	5.615	5.660	VV	774	14059	0.35%	0.128%
74	5.674	5.660	5.713	VV	738	16166	0.41%	0.147%
75	5.743	5.713	5.764	VV	798	14388	0.36%	0.131%
76	5.793	5.764	5.810	VV	825	15111	0.38%	0.138%
77	5.845	5.810	5.867	VV	1651	34746	0.87%	0.317%
78	5.886	5.867	5.907	VV	1897	25490	0.64%	0.232%
79	5.929	5.907	5.963	VV	2553	38991	0.98%	0.355%
80	5.990	5.963	6.034	VV	2008	39581	0.99%	0.361%
81	6.067	6.034	6.084	VV	752	17749	0.45%	0.162%
82	6.100	6.084	6.128	VV	965	17408	0.44%	0.159%
83	6.149	6.128	6.174	VV	935	19087	0.48%	0.174%
84	6.194	6.174	6.224	VV	782	17702	0.44%	0.161%
85	6.235	6.224	6.248	VV	658	8333	0.21%	0.076%
86	6.269	6.248	6.337	VV	15051	184715	4.64%	1.683%
87	6.353	6.337	6.374	VV	933	15757	0.40%	0.144%
88	6.388	6.374	6.397	VV	912	9950	0.25%	0.091%
89	6.416	6.397	6.441	VV	3389	46302	1.16%	0.422%

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90	6.451	6.441	6.470	VV	1066	14348	0.36%	0.131%
91	6.487	6.470	6.518	VV	1222	20997	0.53%	0.191%
92	6.544	6.518	6.563	VV	776	17742	0.45%	0.162%
93	6.586	6.563	6.611	VV	1550	28131	0.71%	0.256%
94	6.621	6.611	6.635	VV	755	9169	0.23%	0.084%
95	6.651	6.635	6.691	VV	837	19597	0.49%	0.179%
96	6.709	6.691	6.740	VV	972	21722	0.55%	0.198%
97	6.783	6.740	6.801	VV	2241	54712	1.38%	0.499%
98	6.824	6.801	6.848	VV	2395	37534	0.94%	0.342%
99	6.869	6.848	6.908	VV	3082	53210	1.34%	0.485%
100	6.926	6.908	6.945	VV	2472	30423	0.76%	0.277%
101	6.967	6.945	7.006	VV	2676	45152	1.14%	0.411%
102	7.049	7.006	7.081	VV	1821	48565	1.22%	0.442%
103	7.109	7.081	7.116	VV	879	16499	0.41%	0.150%
104	7.132	7.116	7.164	VV	1155	27015	0.68%	0.246%
105	7.189	7.164	7.264	VV	15056	196828	4.95%	1.793%
106	7.309	7.264	7.338	VV	1027	38905	0.98%	0.354%
107	7.359	7.338	7.384	VV	1691	30108	0.76%	0.274%
108	7.399	7.384	7.419	VV	702	11364	0.29%	0.104%
109	7.448	7.419	7.476	VV	1203	22765	0.57%	0.207%
110	7.521	7.476	7.538	VV	1235	27816	0.70%	0.253%
111	7.551	7.538	7.582	VV	894	16498	0.41%	0.150%
112	7.610	7.582	7.624	VV	976	16416	0.41%	0.150%
113	7.642	7.624	7.654	VV	1503	20430	0.51%	0.186%
114	7.666	7.654	7.687	VV	1454	19071	0.48%	0.174%
115	7.708	7.687	7.731	VV	1542	22878	0.58%	0.208%
116	7.753	7.731	7.784	VV	2665	38396	0.97%	0.350%
117	7.809	7.784	7.831	VV	2710	35584	0.89%	0.324%
118	7.842	7.831	7.857	VV	574	7273	0.18%	0.066%
119	7.877	7.857	7.898	VV	1785	23622	0.59%	0.215%
120	7.909	7.898	7.943	VV	573	11743	0.30%	0.107%
121	7.965	7.943	7.984	VV	1175	17076	0.43%	0.156%
122	8.008	7.984	8.028	VV	531	12007	0.30%	0.109%
123	8.057	8.028	8.095	VV	11821	146219	3.68%	1.332%
124	8.103	8.095	8.129	VV	815	11200	0.28%	0.102%
125	8.156	8.129	8.184	VV	765	19706	0.50%	0.180%
126	8.203	8.184	8.228	VV	647	11563	0.29%	0.105%
127	8.247	8.228	8.274	VV	482	8317	0.21%	0.076%
128	8.289	8.274	8.318	VV	458	6725	0.17%	0.061%
129	8.362	8.318	8.444	VV	3877	104325	2.62%	0.951%
130	8.470	8.444	8.490	VV	865	20287	0.51%	0.185%
131	8.508	8.490	8.528	VV	713	13802	0.35%	0.126%
132	8.546	8.528	8.571	VV	694	14288	0.36%	0.130%
133	8.592	8.571	8.634	VV	1360	27987	0.70%	0.255%
134	8.647	8.634	8.684	VV	545	9856	0.25%	0.090%
135	8.705	8.684	8.734	VV	312	6978	0.18%	0.064%
136	8.776	8.734	8.797	VV	1037	19194	0.48%	0.175%
137	8.812	8.797	8.831	VV	677	10566	0.27%	0.096%
138	8.838	8.831	8.861	VV	477	7894	0.20%	0.072%
139	8.884	8.861	8.941	VV	1819	41592	1.05%	0.379%
140	8.963	8.941	8.996	VV	564	9155	0.23%	0.083%
141	9.010	8.996	9.048	VV	393	6257	0.16%	0.057%

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142	9.059	9.048	9.086	VV	268	4932	0.12%	0.045%
143	9.115	9.086	9.151	VV	323	9399	0.24%	0.086%
144	9.176	9.151	9.217	VV	484	11164	0.28%	0.102%
145	9.242	9.217	9.281	VV	818	16173	0.41%	0.147%
146	9.294	9.281	9.356	VV	425	10372	0.26%	0.095%
147	9.384	9.356	9.411	VV	379	7965	0.20%	0.073%
148	9.434	9.411	9.478	VV	1119	15917	0.40%	0.145%
149	9.487	9.478	9.507	VV	104	1607	0.04%	0.015%
150	9.523	9.507	9.548	VV	160	2433	0.06%	0.022%
151	9.576	9.548	9.621	VV	427	10073	0.25%	0.092%
152	9.655	9.621	9.706	VV	2091	35567	0.89%	0.324%
153	9.725	9.706	9.787	VV	316	10206	0.26%	0.093%
154	9.798	9.787	9.808	VV	144	1420	0.04%	0.013%
155	9.828	9.808	9.846	VV	153	2514	0.06%	0.023%
156	9.861	9.846	9.880	VV	92	1103	0.03%	0.010%
157	9.935	9.880	9.944	PV	217	5098	0.13%	0.046%
158	9.969	9.944	10.008	VV	246	7603	0.19%	0.069%
159	10.038	10.008	10.064	VV	494	11080	0.28%	0.101%
160	10.077	10.064	10.102	VV	290	4901	0.12%	0.045%
161	10.130	10.102	10.148	VV	256	4870	0.12%	0.044%
162	10.162	10.148	10.177	VV	204	2615	0.07%	0.024%
163	10.188	10.177	10.198	VV	160	1752	0.04%	0.016%
164	10.250	10.198	10.261	VV	272	5790	0.15%	0.053%
165	10.275	10.261	10.301	VV	235	4009	0.10%	0.037%
166	10.330	10.301	10.354	VV	368	8826	0.22%	0.080%
167	10.392	10.354	10.428	VV	564	16592	0.42%	0.151%
168	10.467	10.428	10.491	VV	533	13943	0.35%	0.127%
169	10.513	10.491	10.545	VV	625	12955	0.33%	0.118%
170	10.571	10.545	10.588	VV	338	5648	0.14%	0.051%
171	10.605	10.588	10.627	VV	343	5257	0.13%	0.048%
172	10.647	10.627	10.668	VV	266	4605	0.12%	0.042%
173	10.720	10.668	10.734	VV	294	7760	0.20%	0.071%
174	10.768	10.734	10.801	VV	329	9414	0.24%	0.086%
175	10.812	10.801	10.829	VV	286	3861	0.10%	0.035%
176	10.845	10.829	10.854	VV	180	2394	0.06%	0.022%
177	10.864	10.854	10.874	VV	196	1979	0.05%	0.018%
178	10.894	10.874	10.940	VV	496	9196	0.23%	0.084%
179	10.951	10.940	10.980	VV	160	2650	0.07%	0.024%
180	10.991	10.980	10.997	VV	149	1318	0.03%	0.012%
181	11.024	10.997	11.067	VV	2208	37011	0.93%	0.337%
182	11.093	11.067	11.163	VV	2531	47103	1.18%	0.429%
183	11.188	11.163	11.218	VV	726	12919	0.32%	0.118%
184	11.237	11.218	11.284	VV	143	4304	0.11%	0.039%
185	11.299	11.284	11.321	VV	146	2282	0.06%	0.021%
186	11.332	11.321	11.358	VV	197	1863	0.05%	0.017%
187	11.391	11.358	11.415	PV	160	4147	0.10%	0.038%
188	11.477	11.415	11.534	VV	479	14690	0.37%	0.134%
189	11.555	11.534	11.601	VV	307	6638	0.17%	0.060%
190	11.615	11.601	11.638	VV	123	1452	0.04%	0.013%
191	11.669	11.638	11.675	VV	146	2513	0.06%	0.023%
192	11.730	11.675	11.782	VV	424	17708	0.45%	0.161%
193	11.810	11.782	11.820	VV	285	4377	0.11%	0.040%
194	11.846	11.820	11.872	VV	291	5261	0.13%	0.048%

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195	11.892	11.872	11.902	VV	270	3684	0.09%	0.034%
196	11.906	11.902	11.932	VV	277	3228	0.08%	0.029%
197	11.972	11.932	12.014	VV	425	14475	0.36%	0.132%
198	12.029	12.014	12.047	VV	415	5971	0.15%	0.054%
199	12.069	12.047	12.114	VV	468	9886	0.25%	0.090%
200	12.166	12.114	12.181	VV	282	7268	0.18%	0.066%
201	12.222	12.181	12.241	VV	444	10716	0.27%	0.098%
202	12.259	12.241	12.288	VV	673	10191	0.26%	0.093%
203	12.336	12.288	12.365	VV	1071	16438	0.41%	0.150%
204	12.396	12.365	12.424	VV	2814	35457	0.89%	0.323%
205	12.444	12.424	12.494	VV	264	6325	0.16%	0.058%
206	12.518	12.494	12.598	VV	231	5614	0.14%	0.051%
207	12.611	12.598	12.624	VV	72	583	0.01%	0.005%
208	12.647	12.624	12.664	PV	122	1808	0.05%	0.016%
209	12.679	12.664	12.738	VV	141	4710	0.12%	0.043%
210	12.786	12.738	12.800	VV	252	5997	0.15%	0.055%
211	12.840	12.800	12.977	VV	317310	3978048	100.00%	36.246%
212	13.007	12.977	13.048	VV	744	22430	0.56%	0.204%
213	13.064	13.048	13.098	VV	422	10316	0.26%	0.094%
214	13.127	13.098	13.188	VV	340	14833	0.37%	0.135%
215	13.220	13.188	13.244	VV	339	8783	0.22%	0.080%
216	13.294	13.244	13.341	VV	360	13620	0.34%	0.124%
217	13.349	13.341	13.374	VV	231	3767	0.09%	0.034%
218	13.398	13.374	13.436	VV	291	7339	0.18%	0.067%
219	13.458	13.436	13.484	VV	313	5493	0.14%	0.050%
220	13.542	13.484	13.566	VV	848	16681	0.42%	0.152%
221	13.594	13.566	13.648	VV	2083	34625	0.87%	0.315%
222	13.653	13.648	13.760	VV	177	5225	0.13%	0.048%
223	13.773	13.760	13.784	PV	86	715	0.02%	0.007%
224	13.825	13.784	13.882	VV	130	4988	0.13%	0.045%
225	13.894	13.882	13.929	VV	140	2463	0.06%	0.022%
226	13.938	13.929	13.951	VV	123	1168	0.03%	0.011%
227	14.030	13.951	14.081	VV	713	18243	0.46%	0.166%
228	14.084	14.081	14.131	VV	215	3707	0.09%	0.034%
229	14.152	14.131	14.234	VV	283	8901	0.22%	0.081%
230	14.279	14.234	14.299	VV	200	4966	0.12%	0.045%
231	14.360	14.299	14.387	VV	222	6366	0.16%	0.058%
232	14.453	14.387	14.491	VV	249	8418	0.21%	0.077%
233	14.544	14.491	14.597	VV	238	8889	0.22%	0.081%
234	14.608	14.597	14.627	VV	167	2266	0.06%	0.021%
235	14.652	14.627	14.671	VV	710	12215	0.31%	0.111%
236	14.694	14.671	14.729	VV	1680	28982	0.73%	0.264%
237	14.737	14.729	14.830	VV	238	8208	0.21%	0.075%
238	14.864	14.830	14.881	VV	203	3525	0.09%	0.032%
239	14.954	14.881	14.968	VV	165	6490	0.16%	0.059%
240	14.977	14.968	14.987	VV	140	1097	0.03%	0.010%
241	15.003	14.987	15.041	VV	138	3210	0.08%	0.029%
242	15.147	15.041	15.170	VV	240	13153	0.33%	0.120%
243	15.215	15.170	15.248	VV	326	10370	0.26%	0.094%
244	15.261	15.248	15.309	VV	273	6548	0.16%	0.060%
245	15.409	15.309	15.484	VV	250	16392	0.41%	0.149%
246	15.528	15.484	15.644	VV	305	17363	0.44%	0.158%

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247	15.713	15.644	15.838	VV	1362	43577	1.10%	0.397%
248	15.899	15.838	15.975	VV	211	11691	0.29%	0.107%
249	16.025	15.975	16.138	VV	244	14640	0.37%	0.133%
250	16.196	16.138	16.311	VV	630	23070	0.58%	0.210%
251	16.364	16.311	16.404	VV	216	9808	0.25%	0.089%
252	16.431	16.404	16.458	VV	173	5333	0.13%	0.049%
253	16.554	16.458	16.598	VV	322	15241	0.38%	0.139%
254	16.661	16.598	16.758	VV	1676	40528	1.02%	0.369%
255	16.811	16.758	16.864	PV	197	6937	0.17%	0.063%
256	16.887	16.864	16.925	VV	149	3111	0.08%	0.028%
257	16.989	16.925	17.008	PV	145	4900	0.12%	0.045%
258	17.112	17.008	17.194	PV	1331	29232	0.73%	0.266%
259	17.226	17.194	17.261	VV	190	4247	0.11%	0.039%
260	17.547	17.261	17.623	VV	2042	56398	1.42%	0.514%
261	17.674	17.623	17.788	VV	219	10629	0.27%	0.097%
262	17.838	17.788	17.864	PV	198	5054	0.13%	0.046%
263	17.970	17.864	18.051	VV	2187	43051	1.08%	0.392%
264	18.113	18.051	18.128	VV	119	3672	0.09%	0.033%
265	18.147	18.128	18.168	VV	107	1161	0.03%	0.011%
266	18.255	18.168	18.318	PV	198	8695	0.22%	0.079%
267	18.380	18.318	18.441	VV	2200	43813	1.10%	0.399%
268	18.778	18.441	18.828	PV	1462	34585	0.87%	0.315%
269	18.967	18.828	18.984	PV	205	7284	0.18%	0.066%
270	19.022	18.984	19.041	PV	211	5269	0.13%	0.048%
271	19.162	19.041	19.223	VV	1828	47317	1.19%	0.431%
272	19.474	19.223	19.501	VV	495	55306	1.39%	0.504%
273	19.537	19.501	19.604	VV	1298	44141	1.11%	0.402%
274	19.798	19.604	19.841	VV	1400	122753	3.09%	1.118%
275	19.902	19.841	19.938	VV	2356	86323	2.17%	0.787%
276	19.973	19.938	19.990	VV	1413	42495	1.07%	0.387%
277	20.258	19.990	20.294	VV	2624	324664	8.16%	2.958%
278	20.433	20.294	20.471	VV	2763	266875	6.71%	2.432%
279	20.614	20.471	20.658	VV	3222	299357	7.53%	2.728%
280	20.758	20.658	20.778	VV	2420	171778	4.32%	1.565%
281	20.857	20.778	20.874	VV	2288	132112	3.32%	1.204%
282	20.944	20.874	20.974	VV	2249	131187	3.30%	1.195%
283	21.017	20.974	21.073	VV	2252	126594	3.18%	1.153%
284	21.284	21.073	21.384	VV	2116	365551	9.19%	3.331%
285	21.466	21.384	21.521	VV	1840	132666	3.33%	1.209%
286	21.533	21.521	21.583	VV	1481	50791	1.28%	0.463%
287	21.717	21.583	21.758	VV	1178	122946	3.09%	1.120%
288	21.774	21.758	21.944	VV	1063	88784	2.23%	0.809%
289	21.987	21.944	22.068	VV	580	34626	0.87%	0.315%
290	22.174	22.068	22.191	VV	330	16571	0.42%	0.151%

Sum of corrected areas: 10975145

Aliphatic EPH 021125.M Sat Mar 01 01:27:25 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049136.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	8127994	56.796 ug/ml
Spiked Amount 50.000		Recovery = 113.59%	
6) S 2-Flurobiphenyl (SURR)	8.202	5189155	59.027 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 118.05%	
11) S ortho-Terphenyl (SURR)	11.235	6703578	41.438 ug/ml
Spiked Amount 50.000		Recovery = 82.88%	
Target Compounds			

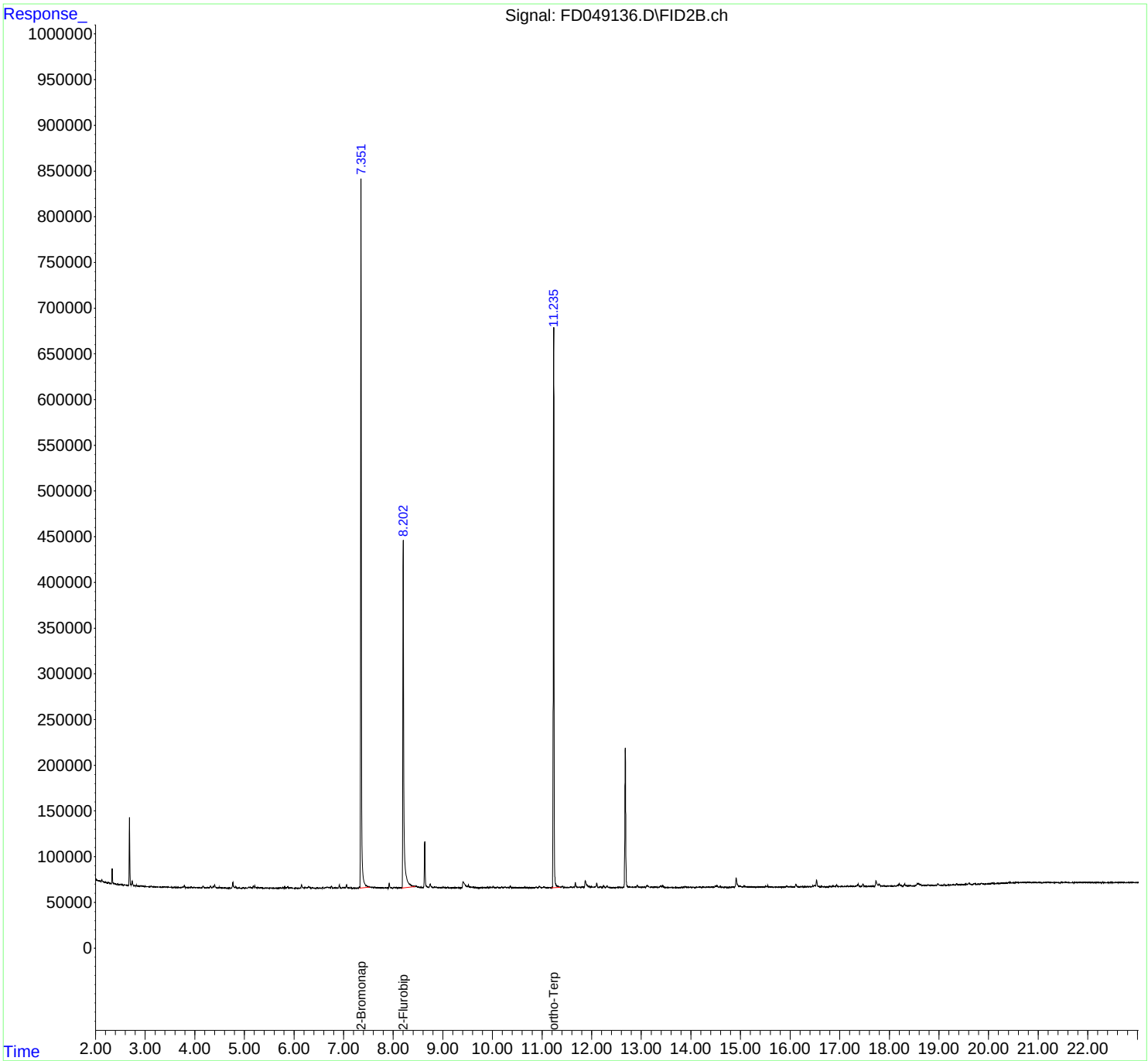
(f)=RT Delta > 1/2 Window (m)=manual int.

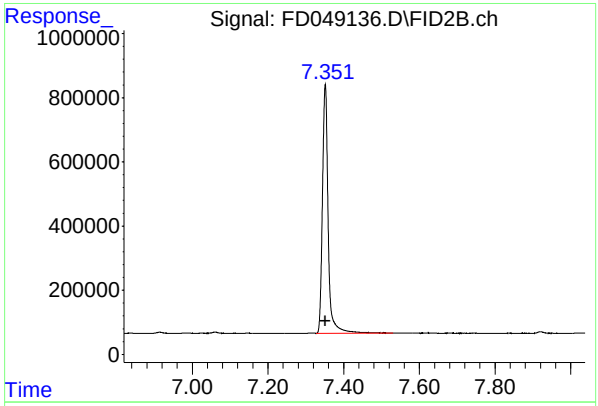
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049136.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

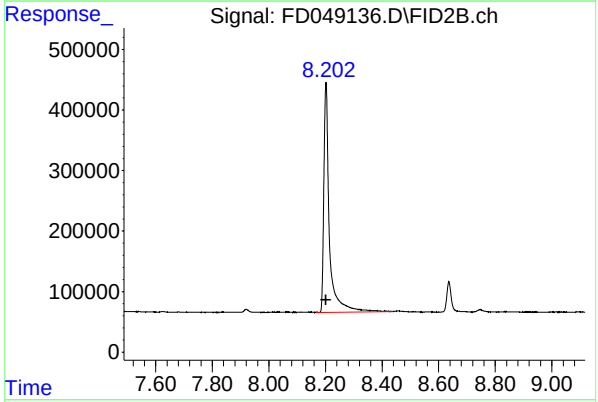




#4 2-Bromonaphthalene (SURR)

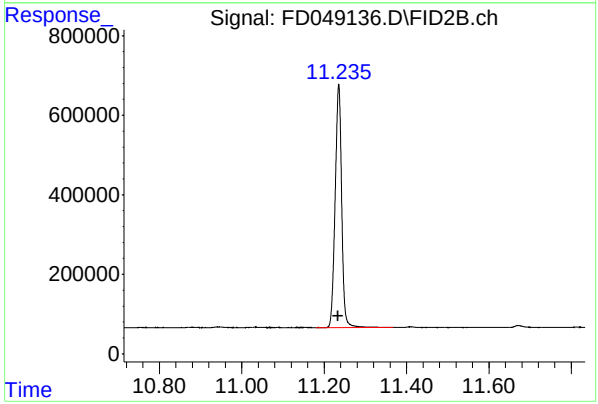
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 8127994
Conc: 56.80 ug/ml

Instrument :
FID_D
ClientSampleId :
B-172-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 5189155
Conc: 59.03 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 6703578
Conc: 41.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049136.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:40
Sample : Q1415-04
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.089	4.052	4.117	BV	244	2795	0.03%	0.010%
2	4.163	4.138	4.207	PV	1842	29627	0.36%	0.102%
3	4.218	4.207	4.229	VV	184	2076	0.03%	0.007%
4	4.261	4.229	4.299	VV	584	13753	0.17%	0.047%
5	4.316	4.299	4.347	VV	2476	31627	0.39%	0.109%
6	4.371	4.347	4.384	VV	2209	25487	0.31%	0.087%
7	4.400	4.384	4.450	VV	3820	55354	0.68%	0.190%
8	4.455	4.450	4.459	VV	434	1895	0.02%	0.007%
9	4.462	4.459	4.475	VV	417	3274	0.04%	0.011%
10	4.487	4.475	4.491	VV	540	4267	0.05%	0.015%
11	4.502	4.491	4.506	VV	880	5153	0.06%	0.018%
12	4.512	4.506	4.542	VV	754	9852	0.12%	0.034%
13	4.549	4.542	4.558	VV	368	2571	0.03%	0.009%
14	4.564	4.558	4.571	VV	243	1476	0.02%	0.005%
15	4.582	4.571	4.592	VV	370	3389	0.04%	0.012%
16	4.601	4.592	4.637	VV	516	6617	0.08%	0.023%
17	4.691	4.654	4.702	PV	678	7078	0.09%	0.024%
18	4.706	4.702	4.717	VV	423	2752	0.03%	0.009%
19	4.728	4.717	4.734	VV	331	2712	0.03%	0.009%
20	4.768	4.734	4.811	VV	6711	101323	1.24%	0.348%
21	4.827	4.811	4.875	VV	1731	24463	0.30%	0.084%
22	4.889	4.875	4.894	VV	391	3001	0.04%	0.010%
23	4.900	4.894	4.916	VV	379	2994	0.04%	0.010%
24	4.939	4.916	4.951	PV	299	3756	0.05%	0.013%
25	4.969	4.951	5.020	VV	477	12264	0.15%	0.042%
26	5.037	5.029	5.048	VV	324	2724	0.03%	0.009%
27	5.090	5.048	5.111	VV	1072	26621	0.32%	0.091%
28	5.117	5.111	5.134	VV	987	11739	0.14%	0.040%
29	5.145	5.134	5.160	VV	861	10184	0.12%	0.035%
30	5.179	5.160	5.200	VV	2598	35091	0.43%	0.120%
31	5.212	5.200	5.255	VV	2596	36609	0.45%	0.126%
32	5.270	5.255	5.300	VV	934	15116	0.18%	0.052%
33	5.304	5.300	5.307	VV	341	1321	0.02%	0.005%
34	5.336	5.307	5.346	VV	720	11769	0.14%	0.040%
35	5.359	5.346	5.380	VV	635	9207	0.11%	0.032%
36	5.384	5.380	5.392	VV	350	1545	0.02%	0.005%

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37	5.404	5.392	5.409	VV	315	2240	0.03%	0.008%
38	5.417	5.409	5.422	VV	373	2442	0.03%	0.008%
39	5.430	5.422	5.442	VV	506	2729	0.03%	0.009%
40	5.462	5.442	5.496	VV	708	9547	0.12%	0.033%
41	5.501	5.496	5.514	VV	280	2239	0.03%	0.008%
42	5.520	5.514	5.529	VV	432	2558	0.03%	0.009%
43	5.533	5.529	5.538	VV	363	1534	0.02%	0.005%
44	5.546	5.538	5.589	VV	362	7308	0.09%	0.025%
45	5.604	5.589	5.612	VV	270	2701	0.03%	0.009%
46	5.620	5.612	5.625	VV	377	2482	0.03%	0.009%
47	5.629	5.625	5.668	VV	336	4850	0.06%	0.017%
48	5.694	5.668	5.702	VV	319	4259	0.05%	0.015%
49	5.705	5.702	5.713	VV	327	1465	0.02%	0.005%
50	5.737	5.713	5.758	VV	580	10430	0.13%	0.036%
51	5.781	5.758	5.797	VV	756	11413	0.14%	0.039%
52	5.814	5.797	5.851	VV	1345	22758	0.28%	0.078%
53	5.871	5.851	5.909	VV	1800	30365	0.37%	0.104%
54	5.937	5.909	5.989	VV	746	18370	0.22%	0.063%
55	6.027	6.001	6.048	PV	466	5630	0.07%	0.019%
56	6.056	6.048	6.100	VV	247	5926	0.07%	0.020%
57	6.109	6.100	6.114	VV	308	2120	0.03%	0.007%
58	6.119	6.114	6.125	VV	248	1611	0.02%	0.006%
59	6.153	6.125	6.202	VV	4058	65840	0.80%	0.226%
60	6.221	6.202	6.249	VV	1397	20118	0.25%	0.069%
61	6.266	6.249	6.276	VV	840	10054	0.12%	0.035%
62	6.293	6.276	6.348	VV	2133	40129	0.49%	0.138%
63	6.367	6.348	6.394	VV	1086	15777	0.19%	0.054%
64	6.407	6.394	6.426	VV	561	6305	0.08%	0.022%
65	6.431	6.426	6.437	VV	276	1717	0.02%	0.006%
66	6.463	6.437	6.495	VV	394	9855	0.12%	0.034%
67	6.506	6.495	6.512	VV	347	2643	0.03%	0.009%
68	6.519	6.512	6.527	VV	310	2254	0.03%	0.008%
69	6.530	6.527	6.542	VV	275	1930	0.02%	0.007%
70	6.552	6.542	6.559	VV	307	2177	0.03%	0.007%
71	6.579	6.559	6.608	VV	1161	14836	0.18%	0.051%
72	6.647	6.608	6.657	VV	1187	22900	0.28%	0.079%
73	6.680	6.657	6.692	VV	1243	23640	0.29%	0.081%
74	6.706	6.692	6.728	VV	1147	17436	0.21%	0.060%
75	6.755	6.728	6.791	VV	2300	38437	0.47%	0.132%
76	6.807	6.791	6.819	VV	583	7848	0.10%	0.027%
77	6.837	6.819	6.850	VV	961	12312	0.15%	0.042%
78	6.857	6.850	6.877	VV	575	6833	0.08%	0.023%
79	6.882	6.877	6.887	VV	328	1524	0.02%	0.005%
80	6.914	6.887	6.952	VV	4064	50210	0.61%	0.172%
81	6.979	6.952	7.010	VV	990	21047	0.26%	0.072%
82	7.026	7.010	7.034	VV	991	10285	0.13%	0.035%
83	7.060	7.034	7.103	VV	4046	57587	0.70%	0.198%
84	7.110	7.103	7.133	VV	710	8908	0.11%	0.031%
85	7.146	7.133	7.167	VV	935	10777	0.13%	0.037%
86	7.176	7.167	7.196	VV	342	4544	0.06%	0.016%
87	7.202	7.196	7.211	VV	353	2171	0.03%	0.007%
88	7.225	7.211	7.242	VV	325	3630	0.04%	0.012%
89	7.260	7.242	7.265	PV	253	2068	0.03%	0.007%

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90	7.271	7.265	7.278	VV	294	1206	0.01%	0.004%
91	7.315	7.289	7.329	VV	1541	19027	0.23%	0.065%
92	7.351	7.329	7.499	VV	776195	8199017	100.00%	28.134%
93	7.509	7.499	7.535	VV	1605	33388	0.41%	0.115%
94	7.543	7.535	7.568	VV	1470	24134	0.29%	0.083%
95	7.582	7.568	7.609	VV	1255	23096	0.28%	0.079%
96	7.624	7.609	7.660	VV	1673	29585	0.36%	0.102%
97	7.682	7.660	7.697	VV	1006	14785	0.18%	0.051%
98	7.719	7.697	7.736	VV	706	14815	0.18%	0.051%
99	7.744	7.736	7.761	VV	763	8650	0.11%	0.030%
100	7.788	7.761	7.815	VV	576	12195	0.15%	0.042%
101	7.836	7.815	7.859	VV	811	13630	0.17%	0.047%
102	7.870	7.859	7.881	VV	590	6925	0.08%	0.024%
103	7.889	7.881	7.900	VV	687	6375	0.08%	0.022%
104	7.920	7.900	7.957	VV	5342	68453	0.83%	0.235%
105	7.963	7.957	7.993	VV	612	6529	0.08%	0.022%
106	8.015	7.993	8.053	VV	919	22170	0.27%	0.076%
107	8.068	8.053	8.089	VV	827	12330	0.15%	0.042%
108	8.114	8.089	8.133	VV	840	12630	0.15%	0.043%
109	8.143	8.133	8.177	VV	765	12400	0.15%	0.043%
110	8.202	8.177	8.366	VV	380652	5242460	63.94%	17.989%
111	8.374	8.366	8.407	VV	3204	65046	0.79%	0.223%
112	8.411	8.407	8.439	VV	2245	40500	0.49%	0.139%
113	8.455	8.439	8.498	VV	2555	66365	0.81%	0.228%
114	8.511	8.498	8.544	VV	1403	28827	0.35%	0.099%
115	8.568	8.544	8.596	VV	1097	25808	0.31%	0.089%
116	8.601	8.596	8.606	VV	854	4444	0.05%	0.015%
117	8.636	8.606	8.719	VV	51032	604781	7.38%	2.075%
118	8.746	8.719	8.784	VV	4560	89529	1.09%	0.307%
119	8.789	8.784	8.807	VV	955	12153	0.15%	0.042%
120	8.830	8.807	8.854	VV	1205	29027	0.35%	0.100%
121	8.868	8.854	8.910	VV	1142	27875	0.34%	0.096%
122	8.912	8.910	8.916	VV	776	2277	0.03%	0.008%
123	8.929	8.916	8.982	VV	876	25252	0.31%	0.087%
124	8.998	8.982	9.006	VV	805	8902	0.11%	0.031%
125	9.014	9.006	9.031	VV	1040	11515	0.14%	0.040%
126	9.037	9.031	9.041	VV	818	4063	0.05%	0.014%
127	9.044	9.041	9.065	VV	795	8386	0.10%	0.029%
128	9.098	9.065	9.130	VV	1214	27205	0.33%	0.093%
129	9.141	9.130	9.156	VV	483	5697	0.07%	0.020%
130	9.159	9.156	9.164	VV	394	1649	0.02%	0.006%
131	9.166	9.164	9.173	VV	469	2131	0.03%	0.007%
132	9.183	9.173	9.195	VV	540	6001	0.07%	0.021%
133	9.205	9.195	9.223	VV	508	5596	0.07%	0.019%
134	9.242	9.223	9.270	VV	778	13668	0.17%	0.047%
135	9.275	9.270	9.282	VV	321	2040	0.02%	0.007%
136	9.297	9.282	9.324	VV	697	11875	0.14%	0.041%
137	9.337	9.324	9.355	VV	552	6348	0.08%	0.022%
138	9.409	9.355	9.495	VV	7211	248966	3.04%	0.854%
139	9.516	9.495	9.569	VV	3141	76263	0.93%	0.262%
140	9.585	9.569	9.594	VV	1138	15970	0.19%	0.055%
141	9.600	9.594	9.640	VV	1087	24744	0.30%	0.085%

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142	9.644	9.640	9.649	VV	705	3557	0.04%	0.012%
143	9.652	9.649	9.656	VV	734	2843	0.03%	0.010%
144	9.658	9.656	9.670	VV	723	4925	0.06%	0.017%
145	9.682	9.670	9.717	VV	666	13580	0.17%	0.047%
146	9.735	9.717	9.745	VV	460	6009	0.07%	0.021%
147	9.752	9.745	9.757	VV	589	3243	0.04%	0.011%
148	9.761	9.757	9.767	VV	609	3226	0.04%	0.011%
149	9.783	9.767	9.805	VV	729	13253	0.16%	0.045%
150	9.818	9.805	9.844	VV	901	15109	0.18%	0.052%
151	9.892	9.844	9.919	VV	872	26190	0.32%	0.090%
152	9.942	9.919	9.956	VV	738	14389	0.18%	0.049%
153	9.962	9.956	9.984	VV	718	10077	0.12%	0.035%
154	10.012	9.984	10.032	VV	1823	29089	0.35%	0.100%
155	10.041	10.032	10.049	VV	451	3803	0.05%	0.013%
156	10.058	10.049	10.065	VV	461	3316	0.04%	0.011%
157	10.072	10.065	10.076	VV	496	2571	0.03%	0.009%
158	10.108	10.076	10.121	VV	1012	18620	0.23%	0.064%
159	10.127	10.121	10.157	VV	779	9850	0.12%	0.034%
160	10.182	10.157	10.214	VV	1265	24229	0.30%	0.083%
161	10.221	10.214	10.231	VV	741	6049	0.07%	0.021%
162	10.256	10.231	10.277	VV	1228	23027	0.28%	0.079%
163	10.292	10.277	10.305	VV	842	11018	0.13%	0.038%
164	10.326	10.305	10.337	VV	802	12052	0.15%	0.041%
165	10.362	10.337	10.392	VV	1873	33545	0.41%	0.115%
166	10.408	10.392	10.427	VV	558	9309	0.11%	0.032%
167	10.430	10.427	10.433	VV	547	1893	0.02%	0.006%
168	10.443	10.433	10.478	VV	762	14171	0.17%	0.049%
169	10.493	10.478	10.497	VV	522	4799	0.06%	0.016%
170	10.500	10.497	10.514	VV	486	4304	0.05%	0.015%
171	10.528	10.514	10.534	VV	561	5298	0.06%	0.018%
172	10.538	10.534	10.558	VV	525	5937	0.07%	0.020%
173	10.576	10.558	10.594	VV	520	8907	0.11%	0.031%
174	10.598	10.594	10.603	VV	502	2355	0.03%	0.008%
175	10.609	10.603	10.617	VV	514	3217	0.04%	0.011%
176	10.629	10.617	10.647	VV	716	10239	0.12%	0.035%
177	10.657	10.647	10.680	VV	1103	12910	0.16%	0.044%
178	10.697	10.680	10.709	VV	651	7385	0.09%	0.025%
179	10.711	10.709	10.735	VV	457	4801	0.06%	0.016%
180	10.755	10.735	10.780	VV	769	11315	0.14%	0.039%
181	10.792	10.780	10.805	VV	522	5781	0.07%	0.020%
182	10.811	10.805	10.840	VV	454	6464	0.08%	0.022%
183	10.845	10.840	10.850	VV	380	1955	0.02%	0.007%
184	10.880	10.850	10.906	VV	1318	23774	0.29%	0.082%
185	10.911	10.906	10.920	VV	530	3387	0.04%	0.012%
186	10.945	10.920	10.992	VV	2146	41566	0.51%	0.143%
187	10.997	10.992	11.003	VV	447	2531	0.03%	0.009%
188	11.012	11.003	11.016	VV	545	3578	0.04%	0.012%
189	11.032	11.016	11.080	VV	1499	29186	0.36%	0.100%
190	11.086	11.080	11.107	VV	739	6704	0.08%	0.023%
191	11.113	11.107	11.117	VV	462	1997	0.02%	0.007%
192	11.154	11.117	11.182	VV	687	16662	0.20%	0.057%
193	11.185	11.182	11.195	VV	436	2605	0.03%	0.009%
194	11.235	11.195	11.318	VV	612330	6728772	82.07%	23.089%

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195	11.324	11.318	11.338	VV	1824	17563	0.21%	0.060%
196	11.345	11.338	11.370	VV	1180	18953	0.23%	0.065%
197	11.377	11.370	11.385	VV	981	7912	0.10%	0.027%
198	11.410	11.385	11.447	VV	2148	43102	0.53%	0.148%
199	11.452	11.447	11.470	VV	766	9055	0.11%	0.031%
200	11.478	11.470	11.503	VV	768	11486	0.14%	0.039%
201	11.522	11.503	11.546	VV	760	15622	0.19%	0.054%
202	11.565	11.546	11.582	VV	1165	17913	0.22%	0.061%
203	11.589	11.582	11.616	VV	1075	16430	0.20%	0.056%
204	11.640	11.616	11.650	VV	848	15680	0.19%	0.054%
205	11.672	11.650	11.720	VV	5744	93360	1.14%	0.320%
206	11.739	11.720	11.745	VV	802	10190	0.12%	0.035%
207	11.753	11.745	11.780	VV	1055	16448	0.20%	0.056%
208	11.812	11.780	11.845	VV	1477	40199	0.49%	0.138%
209	11.872	11.845	11.929	VV	7982	187475	2.29%	0.643%
210	11.938	11.929	11.975	VV	1870	40885	0.50%	0.140%
211	11.984	11.975	12.028	VV	1358	35955	0.44%	0.123%
212	12.032	12.028	12.059	VV	1039	16578	0.20%	0.057%
213	12.103	12.059	12.139	VV	5204	93138	1.14%	0.320%
214	12.149	12.139	12.163	VV	775	9709	0.12%	0.033%
215	12.183	12.163	12.216	VV	1643	29840	0.36%	0.102%
216	12.242	12.216	12.270	VV	2755	43225	0.53%	0.148%
217	12.274	12.270	12.287	VV	591	5595	0.07%	0.019%
218	12.312	12.287	12.347	VV	2599	44468	0.54%	0.153%
219	12.369	12.347	12.395	VV	563	12778	0.16%	0.044%
220	12.407	12.395	12.423	VV	381	5072	0.06%	0.017%
221	12.434	12.423	12.440	VV	439	3781	0.05%	0.013%
222	12.447	12.440	12.456	VV	578	3752	0.05%	0.013%
223	12.462	12.456	12.485	VV	363	5520	0.07%	0.019%
224	12.503	12.485	12.509	VV	660	7179	0.09%	0.025%
225	12.515	12.509	12.528	VV	551	5811	0.07%	0.020%
226	12.534	12.528	12.539	VV	534	3023	0.04%	0.010%
227	12.561	12.539	12.587	VV	817	17297	0.21%	0.059%
228	12.602	12.587	12.629	VV	685	13798	0.17%	0.047%
229	12.638	12.629	12.643	VV	635	4486	0.05%	0.015%
230	12.677	12.643	12.737	VV	153099	1896192	23.13%	6.507%
231	12.742	12.737	12.767	VV	1441	21194	0.26%	0.073%
232	12.772	12.767	12.779	VV	884	5672	0.07%	0.019%
233	12.787	12.779	12.792	VV	910	7263	0.09%	0.025%
234	12.796	12.792	12.801	VV	865	4598	0.06%	0.016%
235	12.809	12.801	12.819	VV	865	8104	0.10%	0.028%
236	12.822	12.819	12.825	VV	745	2885	0.04%	0.010%
237	12.831	12.825	12.836	VV	807	5106	0.06%	0.018%
238	12.847	12.836	12.870	VV	916	16708	0.20%	0.057%
239	12.875	12.870	12.880	VV	753	4271	0.05%	0.015%
240	12.893	12.880	12.900	VV	794	8910	0.11%	0.031%
241	12.920	12.900	12.954	VV	3205	55982	0.68%	0.192%
242	12.958	12.954	12.974	VV	799	8475	0.10%	0.029%
243	12.985	12.974	13.010	VV	769	14017	0.17%	0.048%
244	13.014	13.010	13.017	VV	569	2547	0.03%	0.009%
245	13.021	13.017	13.030	VV	677	4694	0.06%	0.016%
246	13.044	13.030	13.082	VV	850	21314	0.26%	0.073%

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247	13.110	13.082	13.117	VV	2557	32318	0.39%	0.111%
248	13.118	13.117	13.163	VV	2374	45232	0.55%	0.155%
249	13.170	13.163	13.217	VV	951	24668	0.30%	0.085%
250	13.228	13.217	13.249	VV	649	12385	0.15%	0.042%
251	13.266	13.249	13.288	VV	1036	18212	0.22%	0.062%
252	13.296	13.288	13.304	VV	780	6480	0.08%	0.022%
253	13.308	13.304	13.320	VV	693	5842	0.07%	0.020%
254	13.327	13.320	13.332	VV	639	3840	0.05%	0.013%
255	13.341	13.332	13.346	VV	610	4896	0.06%	0.017%
256	13.353	13.346	13.358	VV	720	4431	0.05%	0.015%
257	13.397	13.358	13.417	VV	2178	52815	0.64%	0.181%
258	13.434	13.417	13.472	VV	2749	40294	0.49%	0.138%
259	13.500	13.472	13.507	VV	508	8812	0.11%	0.030%
260	13.510	13.507	13.517	VV	523	2243	0.03%	0.008%
261	13.522	13.517	13.527	VV	359	1874	0.02%	0.006%
262	13.541	13.527	13.565	VV	588	9270	0.11%	0.032%
263	13.571	13.565	13.579	VV	398	2976	0.04%	0.010%
264	13.585	13.579	13.599	VV	407	3990	0.05%	0.014%
265	13.603	13.599	13.609	VV	388	1866	0.02%	0.006%
266	13.622	13.609	13.630	VV	602	4004	0.05%	0.014%
267	13.635	13.630	13.649	VV	420	2229	0.03%	0.008%
268	13.661	13.649	13.680	PV	255	3657	0.04%	0.013%
269	13.704	13.680	13.719	VV	598	8634	0.11%	0.030%
270	13.723	13.719	13.738	VV	333	2244	0.03%	0.008%
271	13.757	13.738	13.761	VV	199	1578	0.02%	0.005%
272	13.768	13.761	13.784	VV	397	3093	0.04%	0.011%
273	13.805	13.784	13.820	VV	594	7663	0.09%	0.026%
274	13.883	13.820	13.927	VV	1295	43672	0.53%	0.150%
275	13.933	13.927	13.950	VV	493	6367	0.08%	0.022%
276	13.954	13.950	13.974	VV	516	6945	0.08%	0.024%
277	13.981	13.974	13.987	VV	568	3704	0.05%	0.013%
278	13.997	13.987	14.029	VV	601	9913	0.12%	0.034%
279	14.053	14.029	14.064	VV	592	9453	0.12%	0.032%
280	14.071	14.064	14.097	VV	505	7079	0.09%	0.024%
281	14.118	14.097	14.137	VV	550	9429	0.11%	0.032%
282	14.142	14.137	14.146	VV	438	2235	0.03%	0.008%
283	14.160	14.146	14.172	VV	623	7501	0.09%	0.026%
284	14.179	14.172	14.189	VV	545	5037	0.06%	0.017%
285	14.195	14.189	14.221	VV	622	7924	0.10%	0.027%
286	14.250	14.221	14.265	VV	762	14175	0.17%	0.049%
287	14.270	14.265	14.290	VV	730	9247	0.11%	0.032%
288	14.295	14.290	14.319	VV	643	9809	0.12%	0.034%
289	14.331	14.319	14.337	VV	727	7358	0.09%	0.025%
290	14.340	14.337	14.365	VV	702	8691	0.11%	0.030%
291	14.389	14.365	14.397	VV	606	10345	0.13%	0.035%
292	14.401	14.397	14.413	VV	606	4581	0.06%	0.016%
293	14.418	14.413	14.437	VV	592	6125	0.07%	0.021%
294	14.443	14.437	14.449	VV	444	2583	0.03%	0.009%
295	14.453	14.449	14.458	VV	482	2160	0.03%	0.007%
296	14.498	14.458	14.515	VV	1758	36542	0.45%	0.125%
297	14.531	14.515	14.567	VV	2423	39802	0.49%	0.137%
298	14.591	14.567	14.646	VV	1456	28193	0.34%	0.097%
299	14.657	14.646	14.675	VV	575	6413	0.08%	0.022%

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300	14.697	14.675	14.719	VV	772	11789	0.14%	0.040%
301	14.725	14.719	14.740	VV	282	2090	0.03%	0.007%
302	14.750	14.740	14.773	VV	383	4779	0.06%	0.016%
303	14.788	14.773	14.806	VV	302	3987	0.05%	0.014%
304	14.850	14.806	14.878	PV	793	18370	0.22%	0.063%
305	14.911	14.878	14.977	VV	10571	223272	2.72%	0.766%
306	14.995	14.977	15.045	VV	1453	43592	0.53%	0.150%
307	15.070	15.045	15.105	VV	1907	43801	0.53%	0.150%
308	15.111	15.105	15.144	VV	878	14724	0.18%	0.051%
309	15.173	15.144	15.178	VV	626	10482	0.13%	0.036%
310	15.192	15.178	15.219	VV	700	12724	0.16%	0.044%
311	15.222	15.219	15.255	VV	726	13445	0.16%	0.046%
312	15.262	15.255	15.290	VV	582	8957	0.11%	0.031%
313	15.302	15.290	15.306	VV	326	2760	0.03%	0.009%
314	15.311	15.306	15.314	VV	373	1581	0.02%	0.005%
315	15.348	15.314	15.358	VV	637	10777	0.13%	0.037%
316	15.394	15.358	15.417	VV	629	18952	0.23%	0.065%
317	15.423	15.417	15.429	VV	530	2966	0.04%	0.010%
318	15.438	15.429	15.467	VV	664	11385	0.14%	0.039%
319	15.472	15.467	15.482	VV	497	3804	0.05%	0.013%
320	15.506	15.482	15.527	VV	1173	21612	0.26%	0.074%
321	15.546	15.527	15.577	VV	2082	33998	0.41%	0.117%
322	15.586	15.577	15.610	VV	654	10093	0.12%	0.035%
323	15.615	15.610	15.646	VV	526	7506	0.09%	0.026%
324	15.654	15.646	15.666	VV	281	1648	0.02%	0.006%
325	15.682	15.666	15.687	VV	247	2869	0.03%	0.010%
326	15.701	15.687	15.713	VV	424	4111	0.05%	0.014%
327	15.730	15.713	15.755	VV	267	4388	0.05%	0.015%
328	15.779	15.755	15.784	PV	310	3024	0.04%	0.010%
329	15.790	15.784	15.795	VV	252	1180	0.01%	0.004%
330	15.804	15.795	15.809	VV	223	1182	0.01%	0.004%
331	15.842	15.819	15.864	VV	367	5558	0.07%	0.019%
332	15.869	15.864	15.879	VV	211	1489	0.02%	0.005%
333	15.931	15.879	15.959	VV	1271	27637	0.34%	0.095%
334	15.972	15.959	15.979	VV	662	6757	0.08%	0.023%
335	15.985	15.979	16.000	VV	717	7685	0.09%	0.026%
336	16.027	16.000	16.067	VV	744	19737	0.24%	0.068%
337	16.078	16.067	16.088	VV	383	4240	0.05%	0.015%
338	16.115	16.088	16.172	VV	3282	64204	0.78%	0.220%
339	16.204	16.172	16.212	VV	592	8532	0.10%	0.029%
340	16.227	16.212	16.249	VV	802	12456	0.15%	0.043%
341	16.263	16.249	16.280	VV	558	9262	0.11%	0.032%
342	16.285	16.280	16.307	VV	552	7267	0.09%	0.025%
343	16.319	16.307	16.330	VV	553	6252	0.08%	0.021%
344	16.334	16.330	16.347	VV	489	4335	0.05%	0.015%
345	16.407	16.347	16.434	VV	710	22916	0.28%	0.079%
346	16.455	16.434	16.470	VV	1529	20087	0.24%	0.069%
347	16.490	16.470	16.510	VV	2253	36265	0.44%	0.124%
348	16.532	16.510	16.566	VV	7747	115704	1.41%	0.397%
349	16.584	16.566	16.628	VV	846	19465	0.24%	0.067%
350	16.641	16.628	16.647	VV	505	4189	0.05%	0.014%
351	16.657	16.647	16.672	VV	544	6624	0.08%	0.023%

rteres

352	16.677	16.672	16.699	VV	473	5754	0.07%	0.020%
353	16.712	16.699	16.734	VV	425	5762	0.07%	0.020%
354	16.745	16.734	16.757	VV	264	1991	0.02%	0.007%
355	16.767	16.757	16.773	VV	221	1481	0.02%	0.005%
356	16.805	16.773	16.852	VV	858	20041	0.24%	0.069%
357	16.873	16.852	16.879	VV	838	10630	0.13%	0.036%
358	16.882	16.879	16.894	VV	640	4611	0.06%	0.016%
359	16.938	16.894	16.973	VV	2182	44636	0.54%	0.153%
360	16.979	16.973	16.985	VV	454	2657	0.03%	0.009%
361	16.991	16.985	17.000	VV	487	3370	0.04%	0.012%
362	17.005	17.000	17.014	VV	441	2823	0.03%	0.010%
363	17.043	17.014	17.050	VV	720	11249	0.14%	0.039%
364	17.055	17.050	17.083	VV	685	8612	0.11%	0.030%
365	17.095	17.083	17.100	VV	440	3889	0.05%	0.013%
366	17.105	17.100	17.112	VV	440	2513	0.03%	0.009%
367	17.123	17.112	17.134	VV	549	5498	0.07%	0.019%
368	17.155	17.134	17.179	VV	954	18815	0.23%	0.065%
369	17.182	17.179	17.190	VV	638	3645	0.04%	0.013%
370	17.201	17.190	17.208	VV	657	5270	0.06%	0.018%
371	17.222	17.208	17.254	VV	1007	18175	0.22%	0.062%
372	17.262	17.254	17.269	VV	528	3923	0.05%	0.013%
373	17.276	17.269	17.287	VV	410	3946	0.05%	0.014%
374	17.292	17.287	17.300	VV	456	2903	0.04%	0.010%
375	17.312	17.300	17.324	VV	675	8391	0.10%	0.029%
376	17.341	17.324	17.352	VV	1384	17698	0.22%	0.061%
377	17.373	17.352	17.406	VV	2796	47727	0.58%	0.164%
378	17.410	17.406	17.414	VV	444	2246	0.03%	0.008%
379	17.428	17.414	17.441	VV	624	7090	0.09%	0.024%
380	17.468	17.441	17.505	VV	3221	54360	0.66%	0.187%
381	17.518	17.505	17.530	VV	553	7552	0.09%	0.026%
382	17.533	17.530	17.540	VV	613	2912	0.04%	0.010%
383	17.544	17.540	17.559	VV	527	4651	0.06%	0.016%
384	17.576	17.559	17.614	VV	594	13303	0.16%	0.046%
385	17.621	17.614	17.625	VV	303	1692	0.02%	0.006%
386	17.635	17.625	17.639	VV	384	2574	0.03%	0.009%
387	17.674	17.639	17.691	VV	806	18268	0.22%	0.063%
388	17.697	17.691	17.704	VV	471	3205	0.04%	0.011%
389	17.731	17.704	17.771	VV	6436	132135	1.61%	0.453%
390	17.794	17.771	17.840	VV	3067	72228	0.88%	0.248%
391	17.847	17.840	17.872	VV	859	14267	0.17%	0.049%
392	17.898	17.872	17.922	VV	911	22096	0.27%	0.076%
393	17.925	17.922	17.941	VV	658	6634	0.08%	0.023%
394	17.948	17.941	17.961	VV	685	6650	0.08%	0.023%
395	17.973	17.961	17.986	VV	783	9920	0.12%	0.034%
396	18.001	17.986	18.010	VV	688	8754	0.11%	0.030%
397	18.016	18.010	18.023	VV	668	5170	0.06%	0.018%
398	18.029	18.023	18.052	VV	842	12665	0.15%	0.043%
399	18.064	18.052	18.078	VV	779	10200	0.12%	0.035%
400	18.083	18.078	18.091	VV	637	4212	0.05%	0.014%
401	18.097	18.091	18.110	VV	597	6837	0.08%	0.023%
402	18.114	18.110	18.139	VV	615	9905	0.12%	0.034%
403	18.200	18.139	18.237	VV	3197	88447	1.08%	0.304%
404	18.241	18.237	18.269	VV	1187	15435	0.19%	0.053%

rteres
Sum of corrected areas: 29142279

Aromatic EPH 021125.M Sat Mar 01 03:59:04 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068299.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
FB02222025

Integration File: autoint1.e
Quant Time: Mar 05 04:25:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.842	4004876	35.607 ug/ml
Spiked Amount 50.000		Recovery = 71.21%	
Target Compounds			

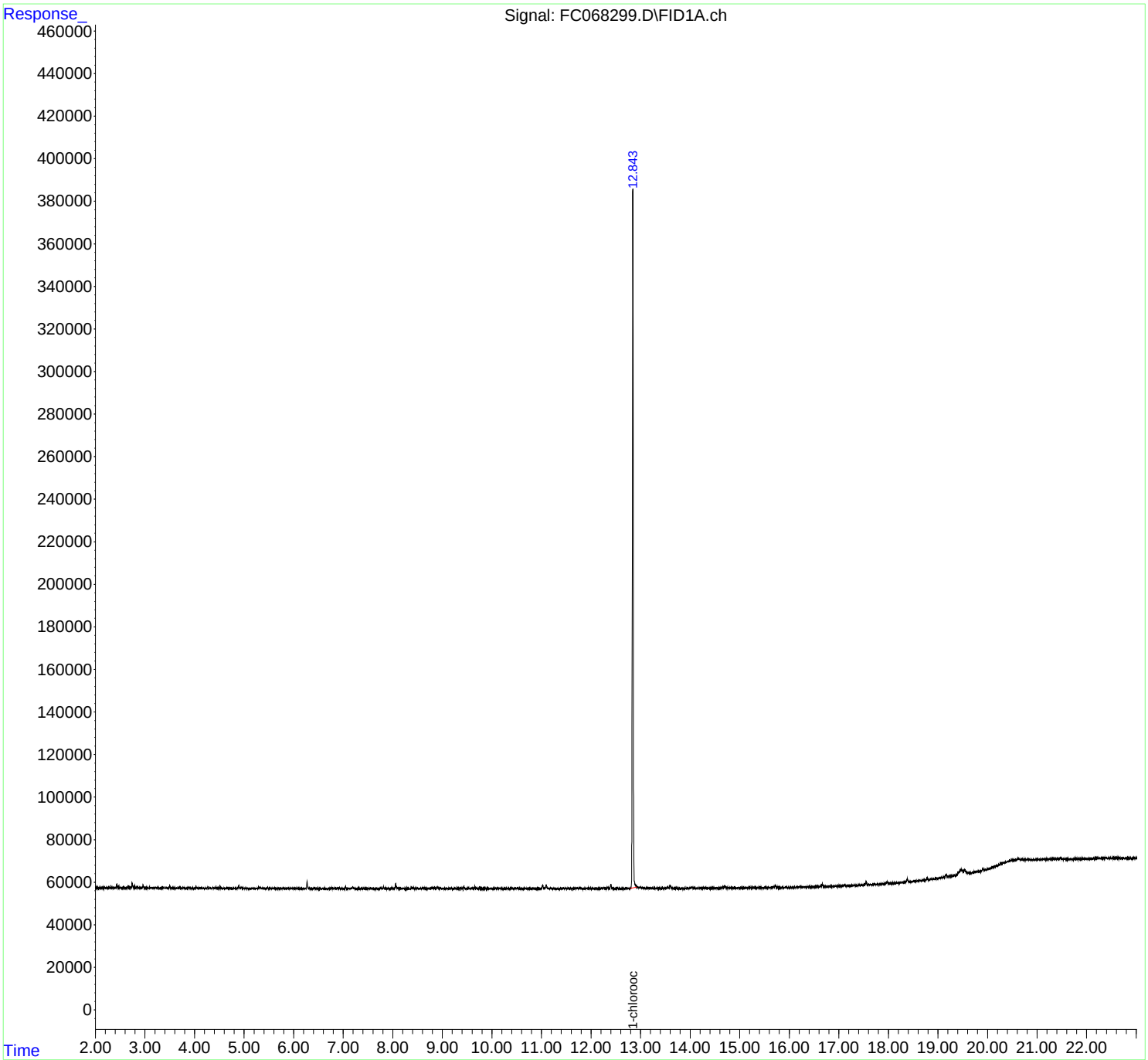
(f)=RT Delta > 1/2 Window (m)=manual int.

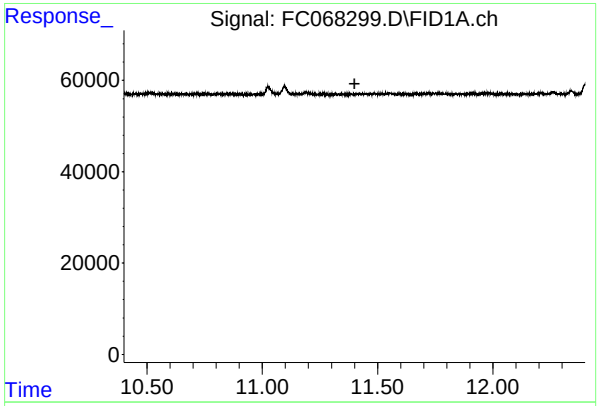
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068299.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
FB02222025

Integration File: autoint1.e
Quant Time: Mar 05 04:25:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

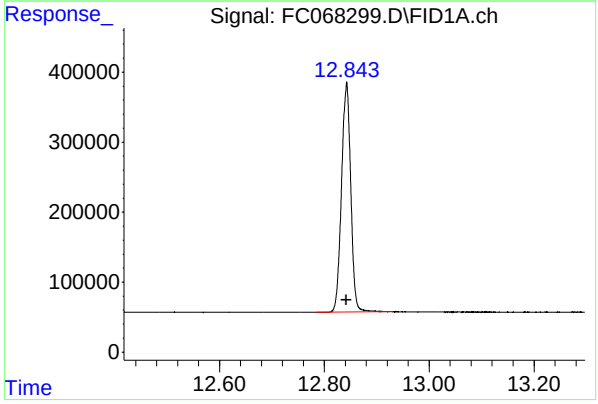




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
FB02222025



#12 1-chlorooctadecane (SURR)

R.T.: 12.842 min
Delta R.T.: 0.000 min
Response: 4004876
Conc: 35.61 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068299.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 17:36
Sample : Q1415-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.842	12.784	12.931	BB	320144	4004876	100.00%	100.000%

Sum of corrected areas: 4004876

Aliphatic EPH 021125.M Fri Mar 07 02:56:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049104.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
FB02222025

Integration File: autoint1.e
Quant Time: Feb 26 01:34:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.352	7629671	53.314 ug/ml
Spiked Amount 50.000		Recovery = 106.63%	
6) S 2-Flurobiphenyl (SURR)	8.202	4891693	55.643 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 111.29%	
11) S ortho-Terphenyl (SURR)	11.236	7979636	49.326 ug/ml
Spiked Amount 50.000		Recovery = 98.65%	
Target Compounds			

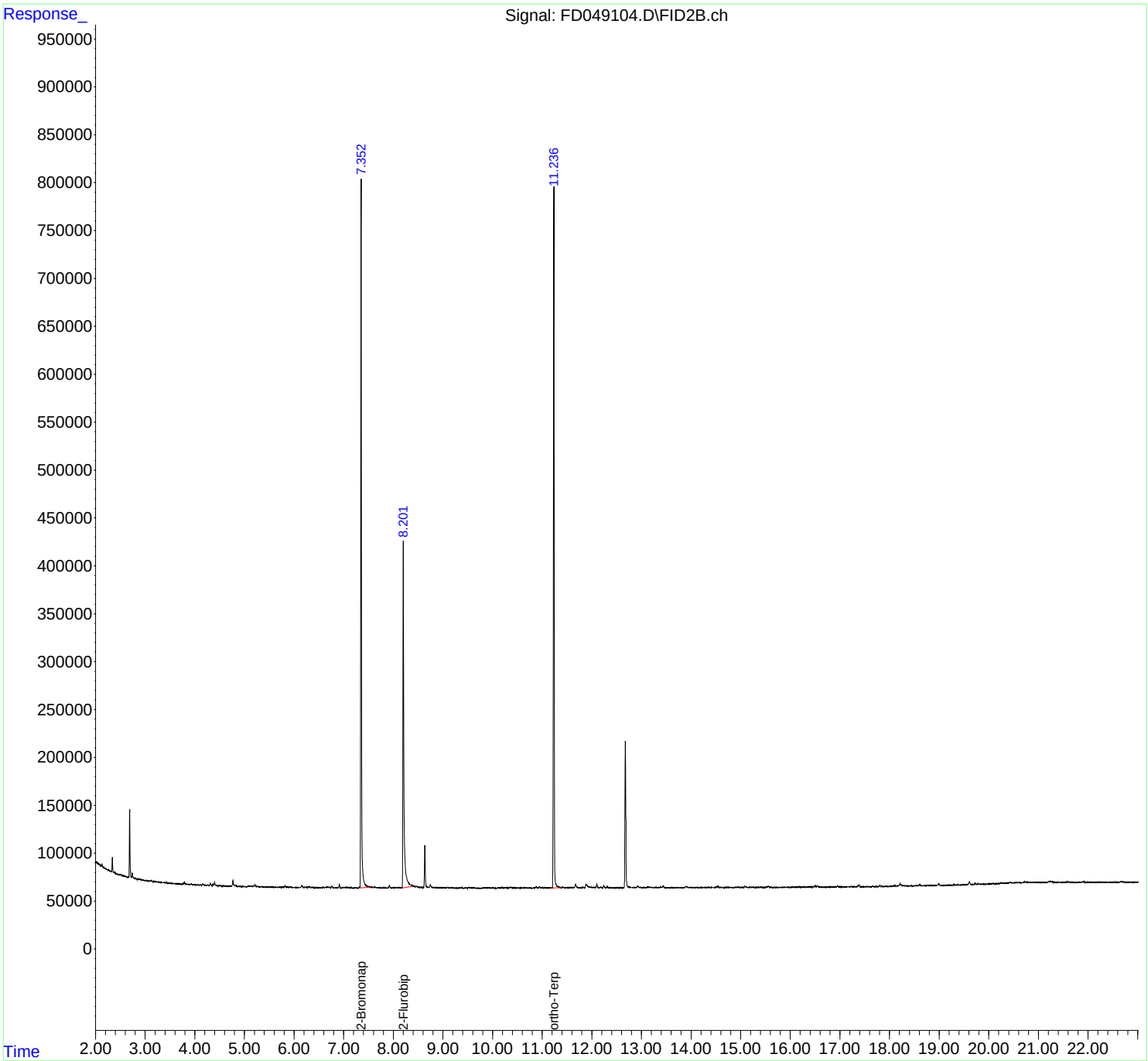
(f)=RT Delta > 1/2 Window (m)=manual int.

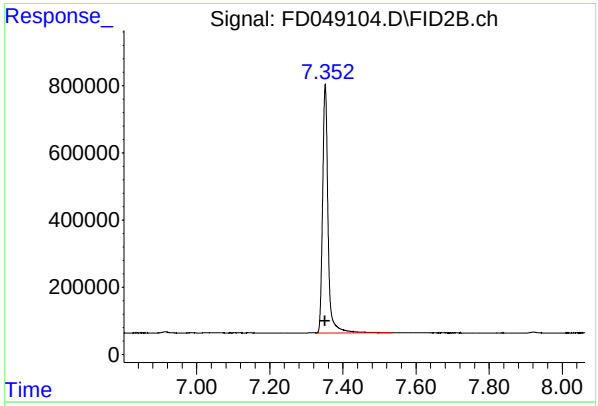
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049104.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
FB02222025

Integration File: autoint1.e
Quant Time: Feb 26 01:34:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

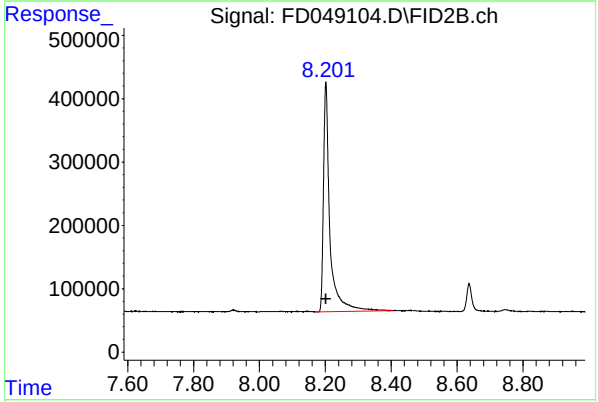




#4 2-Bromonaphthalene (SURR)

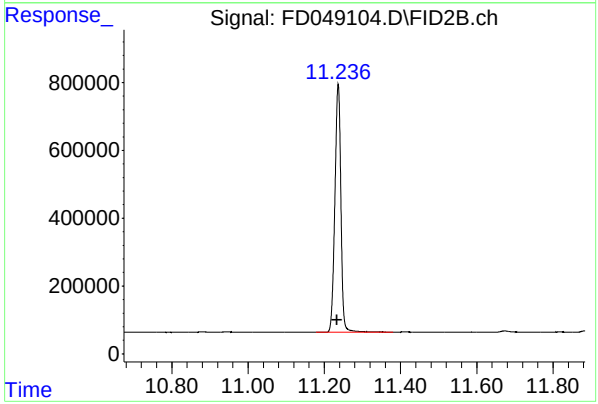
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 7629671
Conc: 53.31 ug/ml

Instrument :
FID_D
ClientSampleId :
FB02222025



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4891693
Conc: 55.64 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.003 min
Response: 7979636
Conc: 49.33 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049104.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 17:36
Sample : Q1415-05
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.337	2.320	2.368	PV	15501	119854	1.57%	0.754%
2	2.686	2.666	2.720	VV	71025	580800	7.61%	3.654%
3	2.740	2.720	2.798	VB	4917	55305	0.72%	0.348%
4	4.769	4.705	4.808	BV	5917	73314	0.96%	0.461%
5	6.914	6.872	6.957	BB	3611	43097	0.56%	0.271%
6	7.352	7.327	7.537	PB	739145	7629671	100.00%	48.005%
7	8.202	8.172	8.405	BV	361932	4891693	64.11%	30.778%
8	8.637	8.609	8.717	PV	44105	484392	6.35%	3.048%
9	11.673	11.623	11.722	BB	3666	57459	0.75%	0.362%
10	11.884	11.843	11.960	BB	3692	79613	1.04%	0.501%
11	12.678	12.603	12.793	BB	152325	1878259	24.62%	11.818%

Sum of corrected areas: 15893458

Aromatic EPH 021125.M Fri Mar 07 03:38:06 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068300.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-173-GW01

Integration File: autoint1.e
Quant Time: Mar 05 04:26:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.841	3123778	27.773 ug/ml
Spiked Amount 50.000		Recovery = 55.55%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

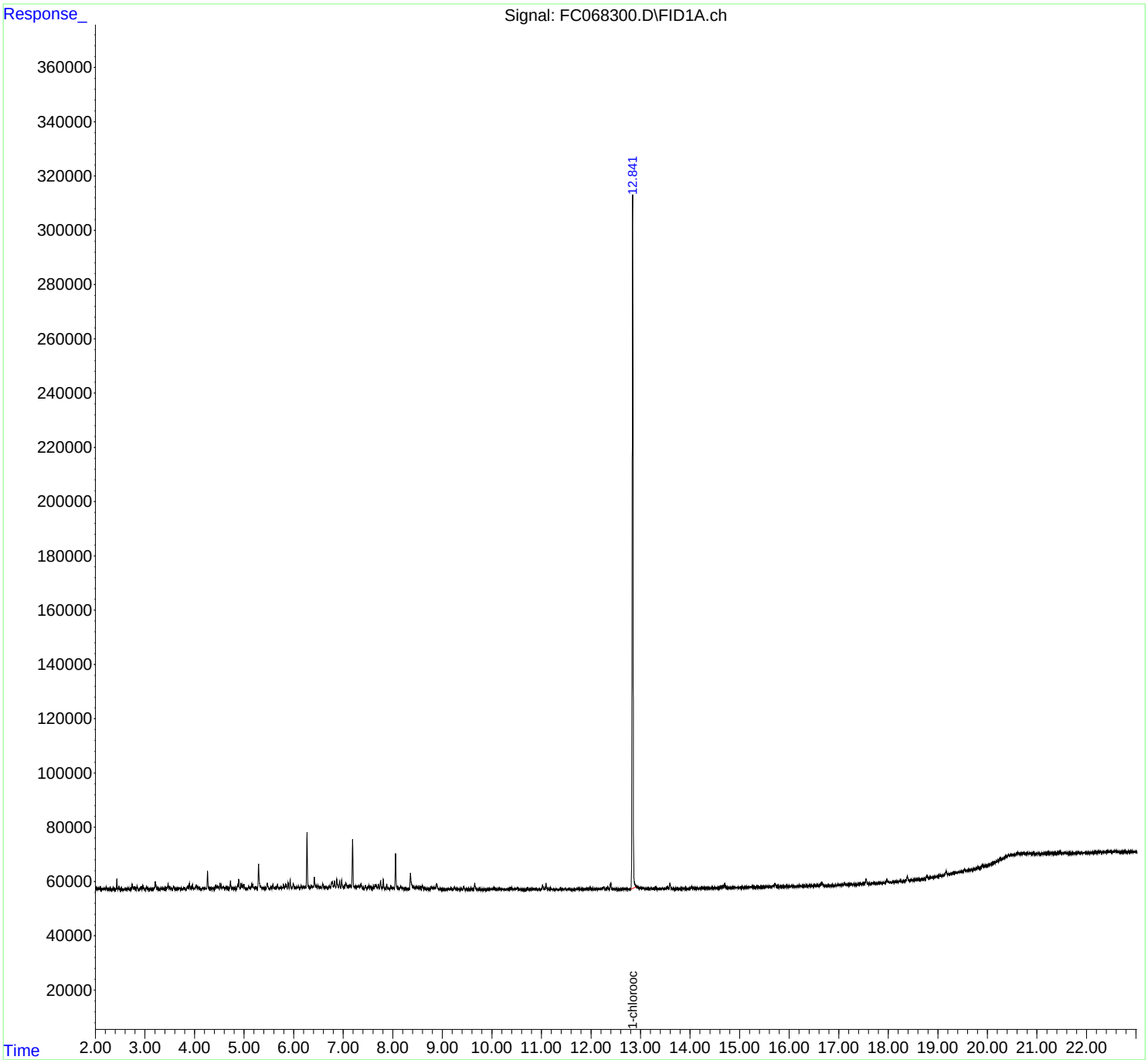
Quantitation Report (QT Reviewed)

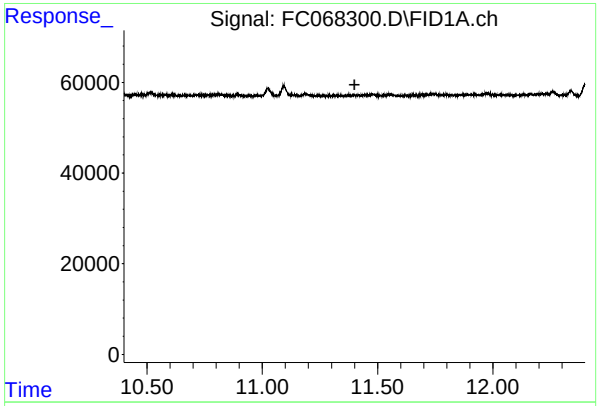
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068300.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-173-GW01

Integration File: autoint1.e
Quant Time: Mar 05 04:26:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

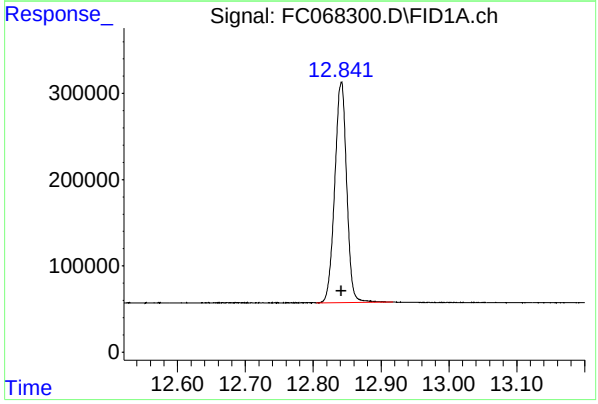




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-173-GW01



#12 1-chlorooctadecane (SURR)

R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 3123778
Conc: 27.77 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068300.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 18:13
Sample : Q1415-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.270	6.128	6.331	BB	20483	238016	7.62%	6.705%
2	7.190	7.118	7.251	BB	17245	188032	6.02%	5.297%
3	12.841	12.804	12.918	BB	255164	3123778	100.00%	87.998%
			Sum of corrected areas:			3549826		

Aliphatic EPH 021125.M Fri Mar 07 02:56:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049105.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-173-GW01

Integration File: autoint1.e
Quant Time: Feb 26 01:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.353	8810523	61.565 ug/ml
Spiked Amount 50.000		Recovery = 123.13%	
6) S 2-Flurobiphenyl (SURR)	8.202	5586333	63.545 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 127.09%	
11) S ortho-Terphenyl (SURR)	11.234	4550424	28.128 ug/ml
Spiked Amount 50.000		Recovery = 56.26%	
Target Compounds			

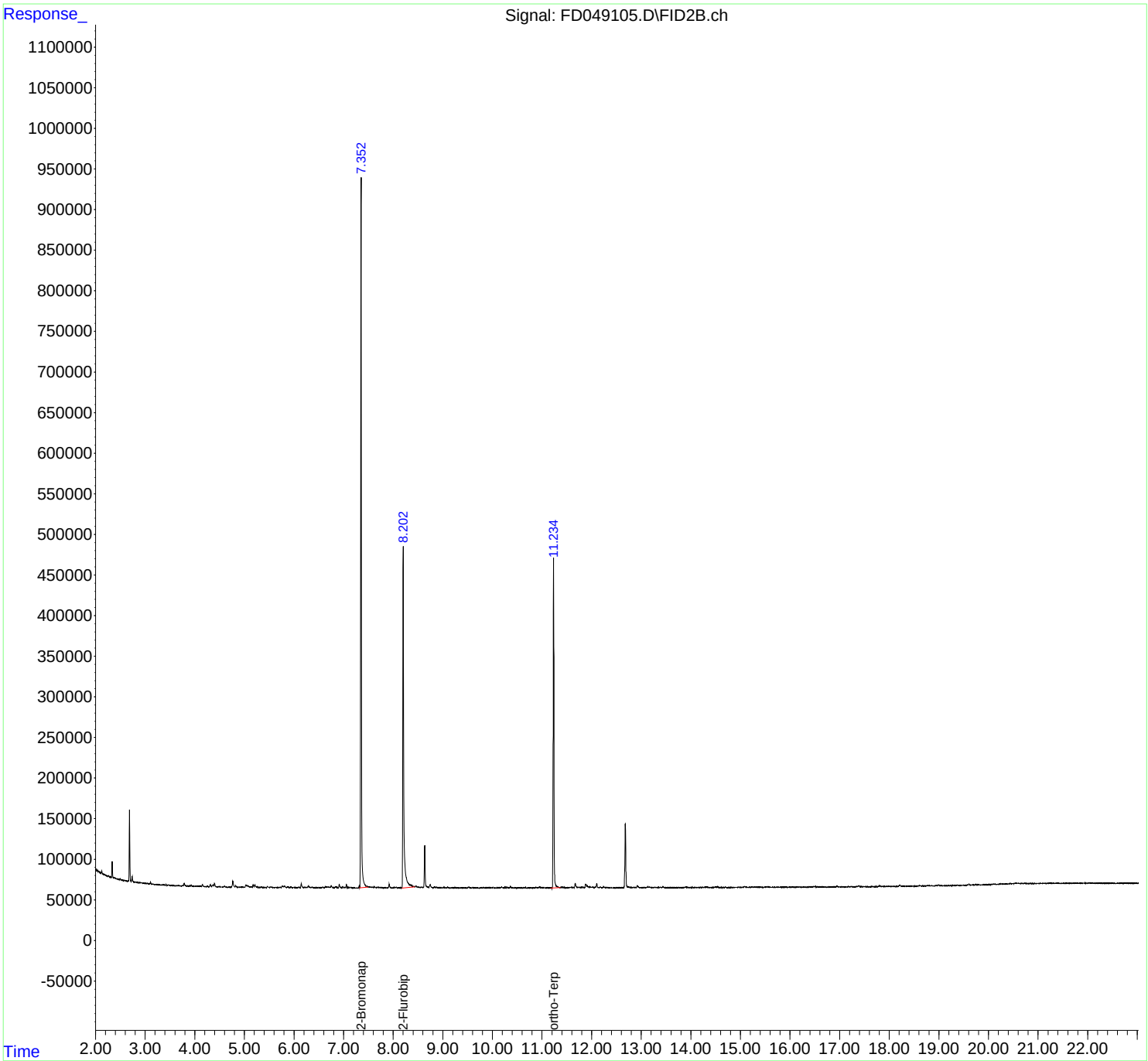
(f)=RT Delta > 1/2 Window (m)=manual int.

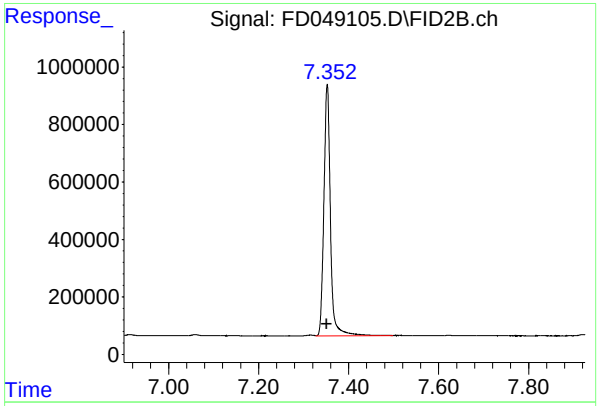
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049105.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-173-GW01

Integration File: autoint1.e
Quant Time: Feb 26 01:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

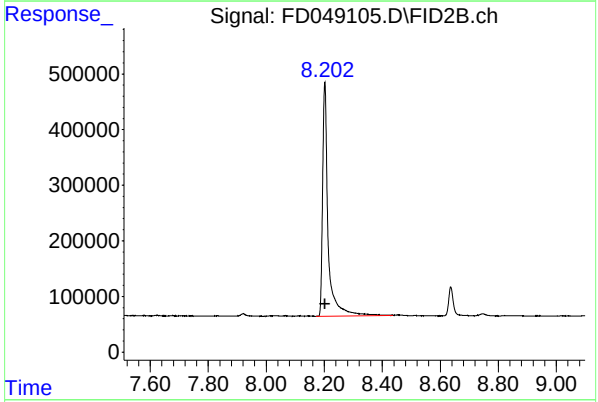




#4 2-Bromonaphthalene (SURR)

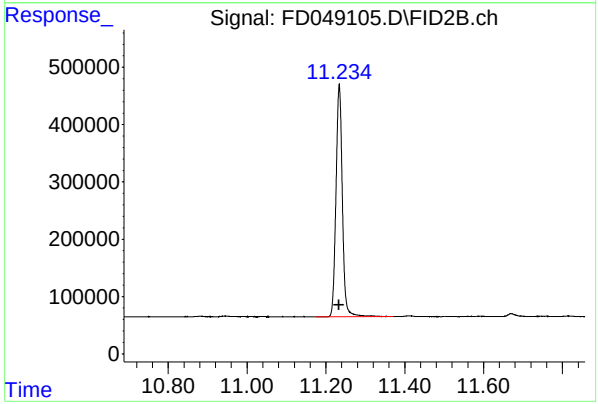
R.T.: 7.353 min
Delta R.T.: 0.001 min
Response: 8810523
Conc: 61.57 ug/ml

Instrument :
FID_D
ClientSampleId :
B-173-GW01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 5586333
Conc: 63.54 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 4550424
Conc: 28.13 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049105.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 18:13
Sample : Q1415-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.334	2.317	2.363	BV	19936	153522	1.74%	0.693%
2	2.683	2.623	2.720	BV	88070	709239	8.05%	3.202%
3	2.737	2.720	2.797	VB	6488	68162	0.77%	0.308%
4	3.785	3.770	3.823	VB	3473	38993	0.44%	0.176%
5	4.399	4.383	4.437	VV	4653	55348	0.63%	0.250%
6	4.767	4.717	4.807	BV	7559	103125	1.17%	0.466%
7	6.148	6.120	6.195	BB	4894	63383	0.72%	0.286%
8	6.914	6.867	6.960	BV	4119	49794	0.57%	0.225%
9	7.059	7.038	7.084	VV	4116	41719	0.47%	0.188%
10	7.353	7.328	7.498	VV	873549	8810523	100.00%	39.783%
11	7.921	7.852	7.959	BBA	4270	48103	0.55%	0.217%
12	8.202	8.172	8.437	BB	420794	5586333	63.41%	25.224%
13	8.636	8.598	8.717	BV	51977	583604	6.62%	2.635%
14	8.746	8.717	8.802	VB	3922	65376	0.74%	0.295%
15	11.234	11.175	11.370	BB	404869	4550424	51.65%	20.547%
16	11.670	11.622	11.722	BB	4977	70280	0.80%	0.317%
17	11.881	11.850	11.952	BB	4265	90867	1.03%	0.410%
18	12.104	12.037	12.143	BB	4722	61300	0.70%	0.277%
19	12.678	12.643	12.783	BB	78717	996427	11.31%	4.499%
			Sum of corrected areas:			22146523		

Aromatic EPH 021125.M Fri Mar 07 02:59:49 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068296.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166863BL

Integration File: autoint1.e
Quant Time: Mar 05 04:25:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.844	3600606	32.013 ug/ml
Spiked Amount 50.000		Recovery = 64.03%	
Target Compounds			

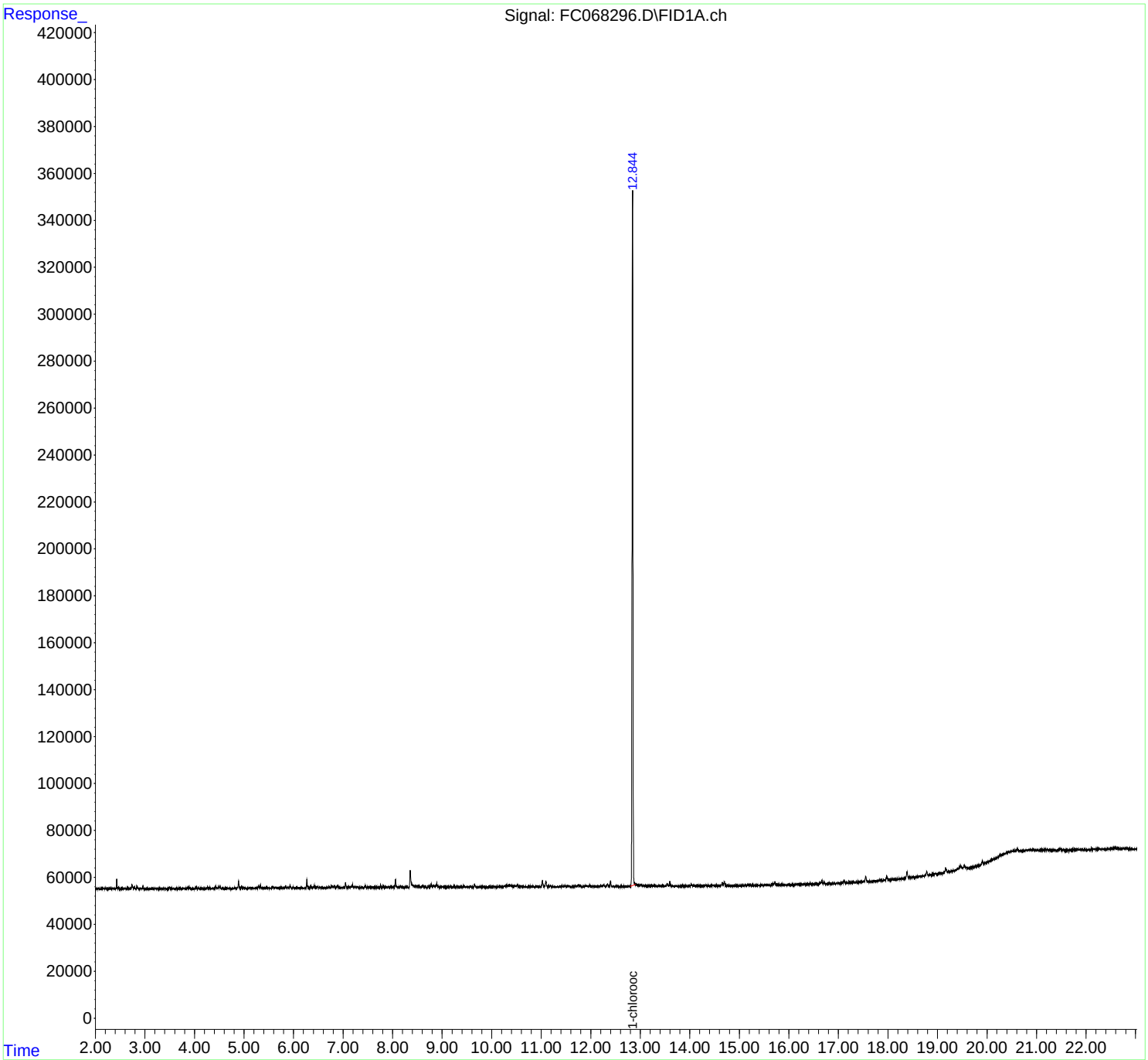
(f)=RT Delta > 1/2 Window (m)=manual int.

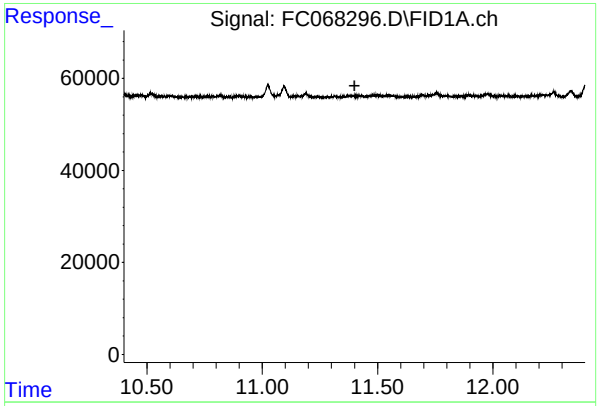
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068296.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166863BL

Integration File: autoint1.e
Quant Time: Mar 05 04:25:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

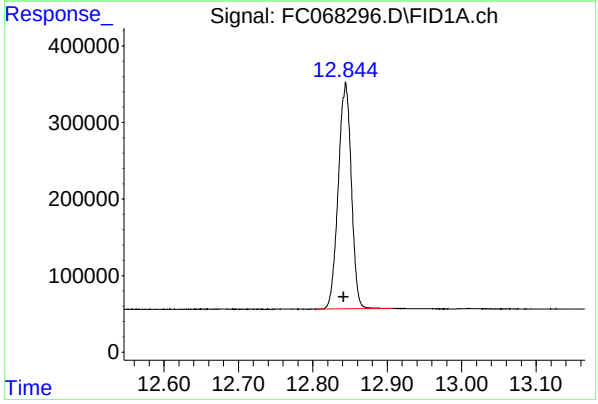




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166863BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.844 min
Delta R.T.: 0.002 min
Response: 3600606
Conc: 32.01 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068296.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 15:47
Sample : PB166863BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.844	12.804	12.908	BB	293152	3600606	100.00%	100.000%
			Sum of corrected areas:			3600606		

Aliphatic EPH 021125.M Wed Feb 26 02:46:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049101.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BL

Integration File: autoint1.e
Quant Time: Feb 26 01:32:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.348	8047938	56.236 ug/ml
Spiked Amount 50.000		Recovery = 112.47%	
6) S 2-Flurobiphenyl (SURR)	8.198	4963166	56.456 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 112.91%	
11) S ortho-Terphenyl (SURR)	11.235	7709546	47.656 ug/ml
Spiked Amount 50.000		Recovery = 95.31%	
Target Compounds			

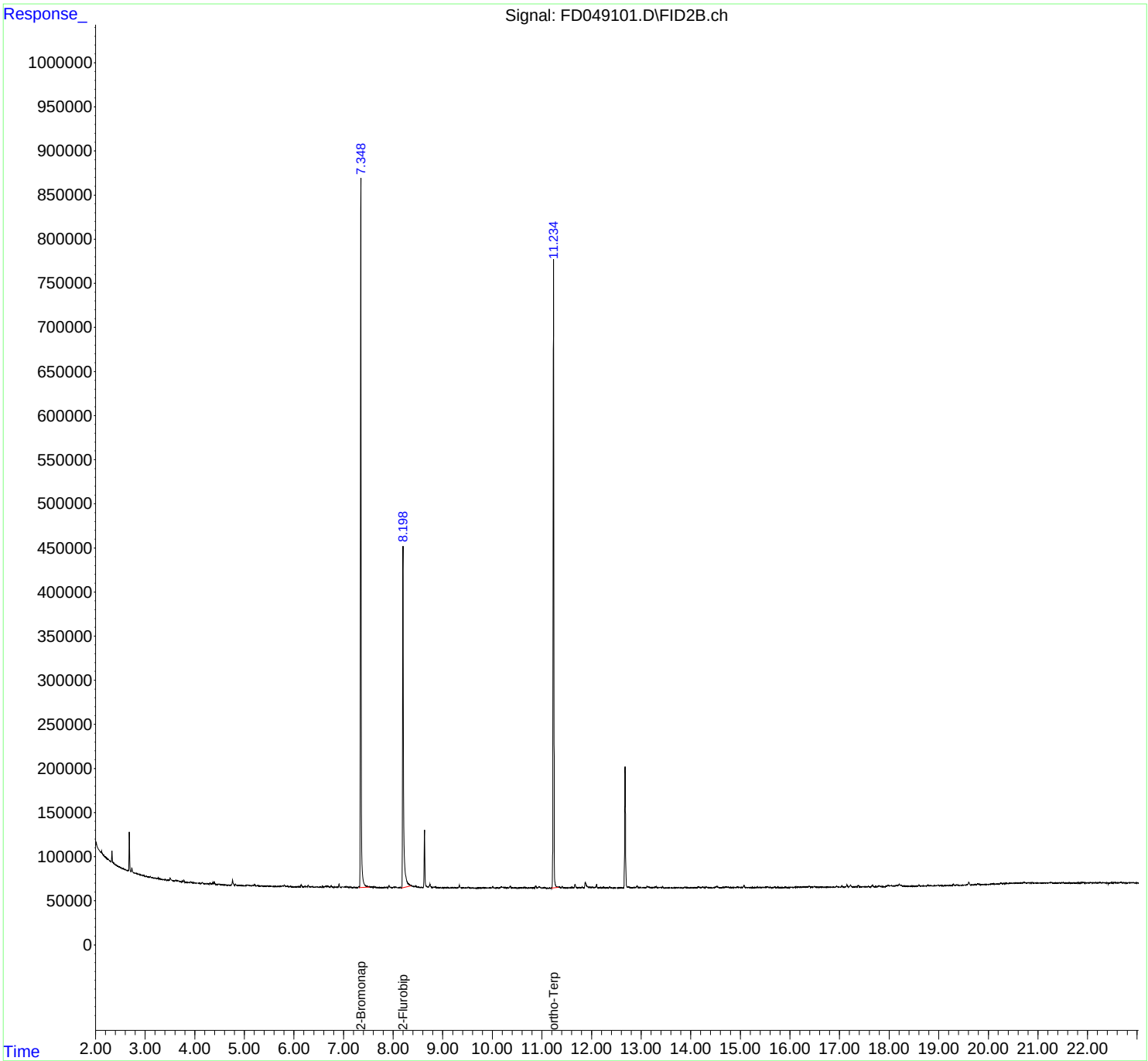
(f)=RT Delta > 1/2 Window (m)=manual int.

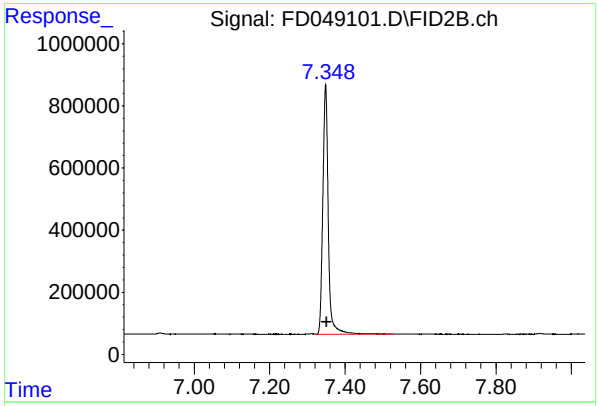
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049101.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BL

Integration File: autoint1.e
Quant Time: Feb 26 01:32:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

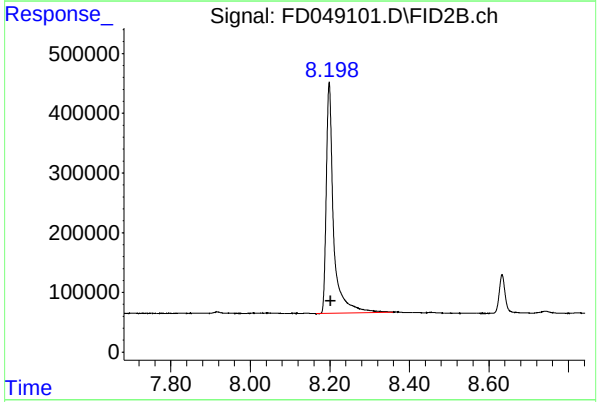




#4 2-Bromonaphthalene (SURR)

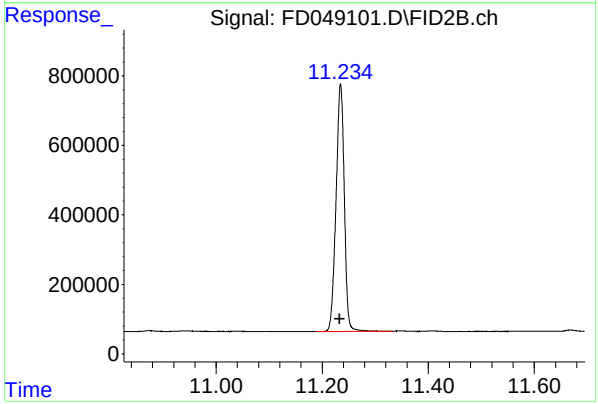
R.T.: 7.348 min
Delta R.T.: -0.003 min
Response: 8047938
Conc: 56.24 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166863BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.198 min
Delta R.T.: -0.004 min
Response: 4963166
Conc: 56.46 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 7709546
Conc: 47.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049101.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 15:47
Sample : PB166863BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.348	7.323	7.527	VB	804027	8047938	100.00%	38.840%
2	8.198	8.165	8.359	BV	386956	4963166	61.67%	23.953%
3	11.235	11.189	11.334	BV	711675	7709546	95.80%	37.207%
			Sum of corrected areas:			20720649		

Aromatic EPH 021125.M Wed Feb 26 01:54:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.352	8010402	55.974 ug/ml
Spiked Amount 50.000		Recovery = 111.95%	
6) S 2-Flurobiphenyl (SURR)	8.201	5081253	57.799 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 115.60%	
11) S ortho-Terphenyl (SURR)	11.236	8041222	49.706 ug/ml
Spiked Amount 50.000		Recovery = 99.41%	
Target Compounds			

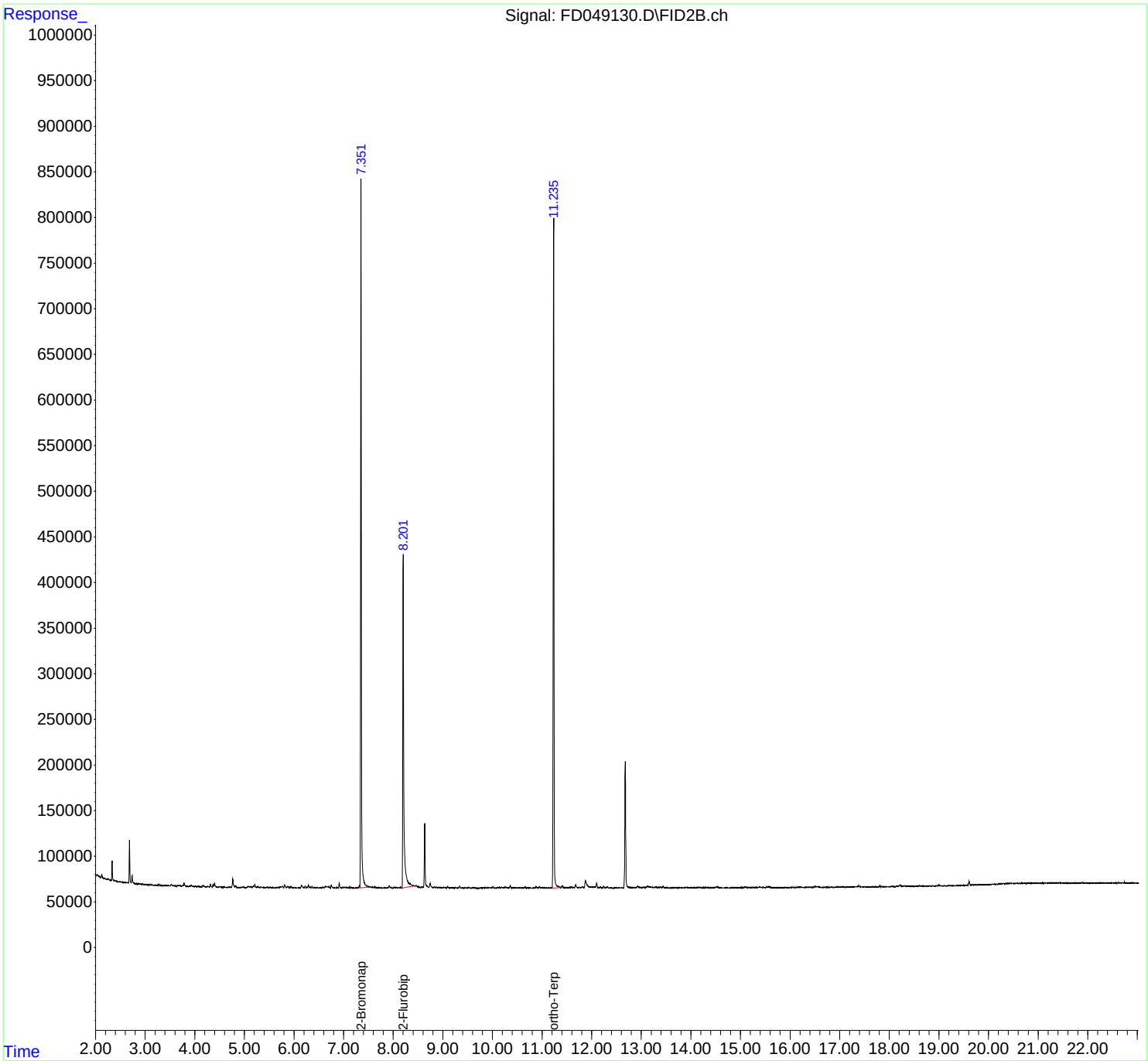
(f)=RT Delta > 1/2 Window (m)=manual int.

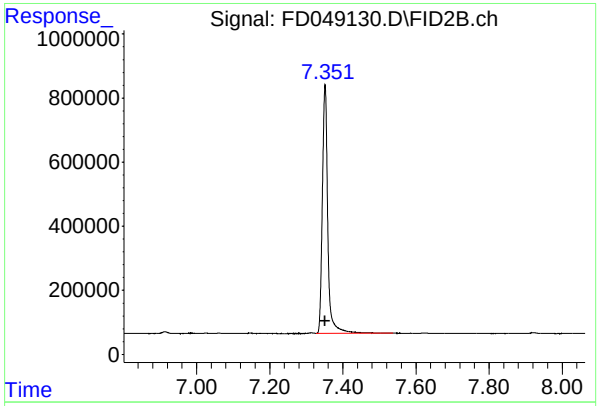
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

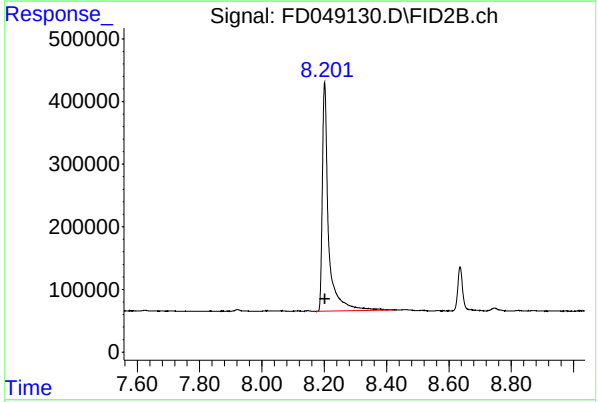




#4 2-Bromonaphthalene (SURR)

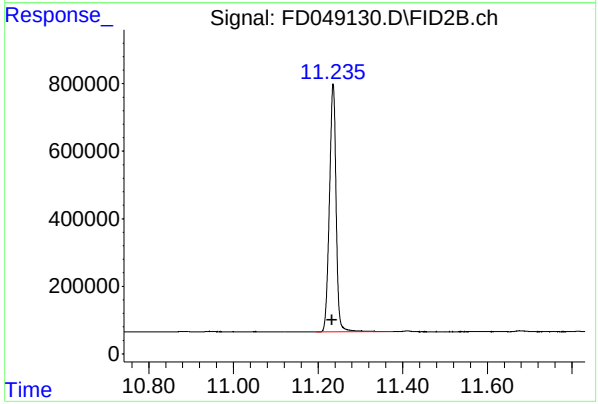
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8010402
Conc: 55.97 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 5081253
Conc: 57.80 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.002 min
Response: 8041222
Conc: 49.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.352	7.327	7.537	VB	776735	8010402	99.62%	37.905%
2	8.201	8.174	8.420	PB	364991	5081253	63.19%	24.044%
3	11.236	11.195	11.377	BB	734702	8041222	100.00%	38.051%
			Sum of corrected areas:			21132876		

Aromatic EPH 021125.M Sat Mar 01 03:51:24 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.840	4680251	41.612 ug/ml
Spiked Amount 50.000		Recovery = 83.22%	
Target Compounds			

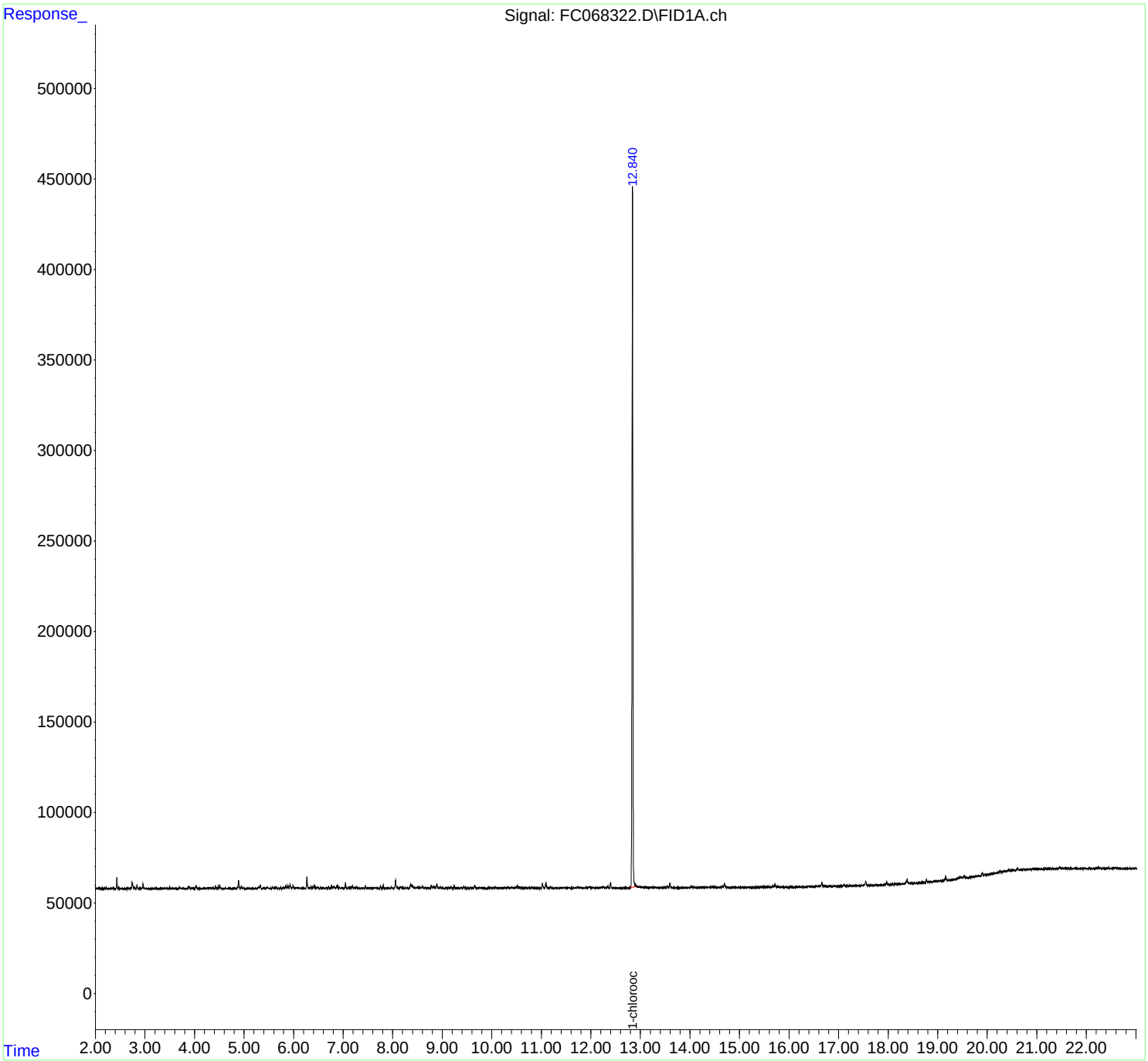
(f)=RT Delta > 1/2 Window (m)=manual int.

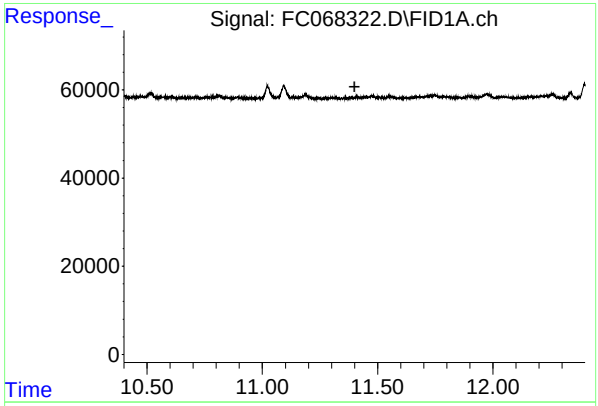
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

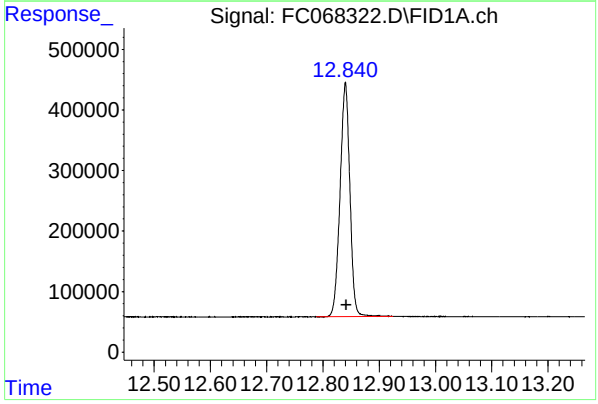




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166923BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 4680251
Conc: 41.61 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.840	12.788	12.925	BB	386372	4680251	100.00%	100.000%
			Sum of corrected areas:			4680251		

Aliphatic EPH 021125.M Sat Mar 01 01:22:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049102.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BS

Integration File: autoint1.e
Quant Time: Feb 26 01:33:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.351	8578252	59.942 ug/ml
	Spiked Amount 50.000		Recovery = 119.88%	
6)	S 2-Flurobiphenyl (SURR)	8.202	4994005	56.807 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 113.61%	
11)	S ortho-Terphenyl (SURR)	11.237	8345069	51.585 ug/ml
	Spiked Amount 50.000		Recovery = 103.17%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	6065078	38.084 ug/ml
2)	T Naphthalene (C11.7)	5.692	7087569	44.636 ug/ml
3)	T 2-Methylnaphthalene (...	6.738	7259810	46.629 ug/ml
5)	T Acenaphthylene (C15.06)	8.004	8384708	51.565 ug/ml
7)	T Acenaphthene (C15.5)	8.299	8801087	53.499 ug/ml
8)	T Flouorene (C16.55)	9.078	8817188	55.929 ug/ml
9)	T Phenanthrene (C19.36)	10.467	8872012	58.872 ug/ml
10)	T Anthracene (C19.43)	10.542	9030746	59.795 ug/ml
12)	T Fluoranthene (C21.85)	12.272	9098752	58.962 ug/ml
13)	T Pyrene (C20.8)	12.565	8920599	57.904 ug/ml
14)	T Benzo[a]anthracene (C...	14.436	8323275	63.348 ug/ml
15)	T Chrysene (C27.41)	14.478	8230352	50.903 ug/ml
16)	T benzo[b]fluoranthene ...	15.985	8299332	60.317 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.020	8407118	53.229 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.361	8002901	58.959 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.732	7642522	69.937 ug/ml
20)	T Dibenz[a,h]anthracene...	17.766	7956870	51.288 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.983	7959297	54.910 ug/ml

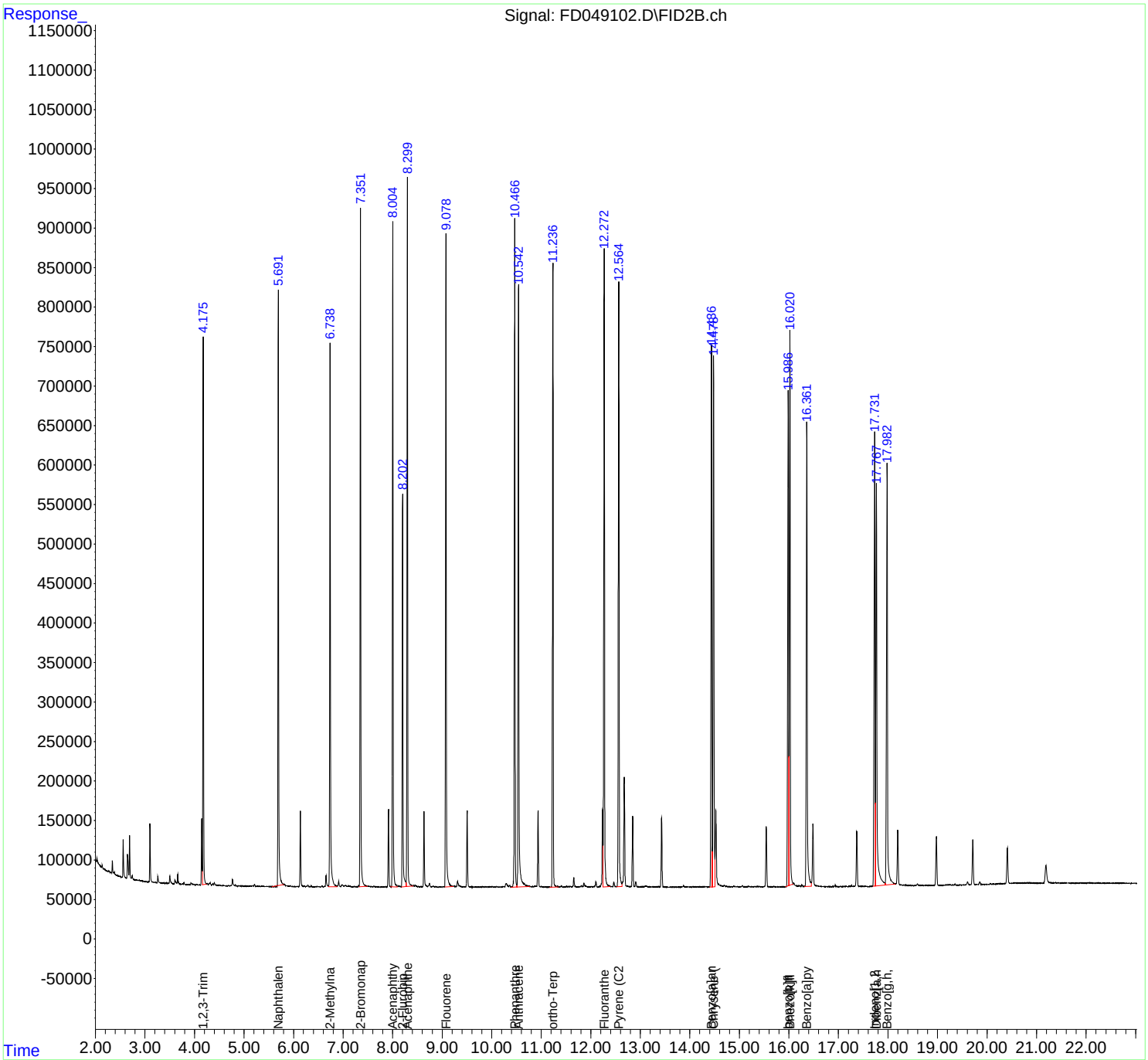
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049102.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BS

Integration File: autoint1.e
Quant Time: Feb 26 01:33:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049102.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:23
Sample : PB166863BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.159	4.247	VV	693349	6065078	66.66%	3.587%
2	5.692	5.559	5.801	BV	749586	7087569	77.90%	4.192%
3	6.738	6.709	6.879	VV	689555	7259810	79.79%	4.294%
4	7.352	7.326	7.497	VB	859196	8578252	94.28%	5.074%
5	8.004	7.960	8.096	BV	839696	8384708	92.15%	4.959%
6	8.202	8.175	8.272	PV	497189	4994005	54.89%	2.954%
7	8.299	8.272	8.417	VB	894253	8801087	96.73%	5.205%
8	9.078	9.050	9.225	PV	828025	8817188	96.91%	5.215%
9	10.467	10.397	10.510	BV	847912	8872012	97.51%	5.247%
10	10.542	10.510	10.775	VB	761494	9030746	99.25%	5.341%
11	11.237	11.175	11.354	BB	790276	8345069	91.72%	4.936%
12	12.272	12.248	12.394	VV	807758	9098752	100.00%	5.381%
13	12.565	12.514	12.629	BV	766440	8920599	98.04%	5.276%
14	14.436	14.394	14.454	BV	686004	8323275	91.48%	4.923%
15	14.478	14.454	14.506	VV	673881	8230352	90.46%	4.868%
16	15.985	15.930	16.000	BV	625218	8299332	91.21%	4.909%
17	16.020	16.000	16.084	VV	705093	8407118	92.40%	4.972%
18	16.361	16.310	16.453	BV	585701	8002901	87.96%	4.733%
19	17.732	17.690	17.745	BV	575619	7642522	84.00%	4.520%
20	17.766	17.745	17.944	VV	511547	7956870	87.45%	4.706%
21	17.983	17.944	18.157	VV	532307	7959297	87.48%	4.708%

Sum of corrected areas: 169076542

Aromatic EPH 021125.M Wed Feb 26 01:55:34 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068297.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166863BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Integration File: autoint1.e
Quant Time: Mar 05 04:25:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.843	4574944	40.675 ug/ml
Spiked Amount	50.000		Recovery =	81.35%
	Target Compounds			
1) T	n-Nonane (C9)	3.206	3221618	22.901 ug/ml
2) T	n-Decane (C10)	4.263	4108269	28.999 ug/ml
4) T	n-Dodecane (C12)	6.272	4857635	34.510 ug/ml
6) T	n-Tetradecane (C14)	8.061	5311836	38.959 ug/ml
7) T	n-Hexadecane (C16)	9.657	5538668	40.438 ug/ml
8) T	n-Octadecane (C18)	11.095	5793674	42.364 ug/ml
10) T	n-Eicosane (C20)	12.402	6081631	46.679 ug/ml
11) T	n-Heneicosane (C21)	13.013	5823276	45.549 ug/ml
13) T	n-Docosane (C22)	13.598	5769887	45.783 ug/ml
14) T	n-Tetracosane (C24)	14.700	5666270	45.557 ug/ml
15) T	n-Hexacosane (C26)	15.719	5550320	45.647 ug/ml
16) T	n-Octacosane (C28)	16.667	5378801	45.289 ug/ml
17) T	n-Tricontane (C30)	17.554	5501897	45.710 ug/mlm
18) T	n-Dotriacontane (C32)	18.385	5451575	46.969 ug/mlm
19) T	n-Tetratriacontane (C34)	19.169	5360093	49.604 ug/ml
20) T	n-Hexatriacontane (C36)	19.908	5106343	53.098 ug/ml
21) T	n-Octatriacontane (C38)	20.621	4893810	54.438 ug/ml
22) T	n-Tetracontane (C40)	21.477	4666615	53.937 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

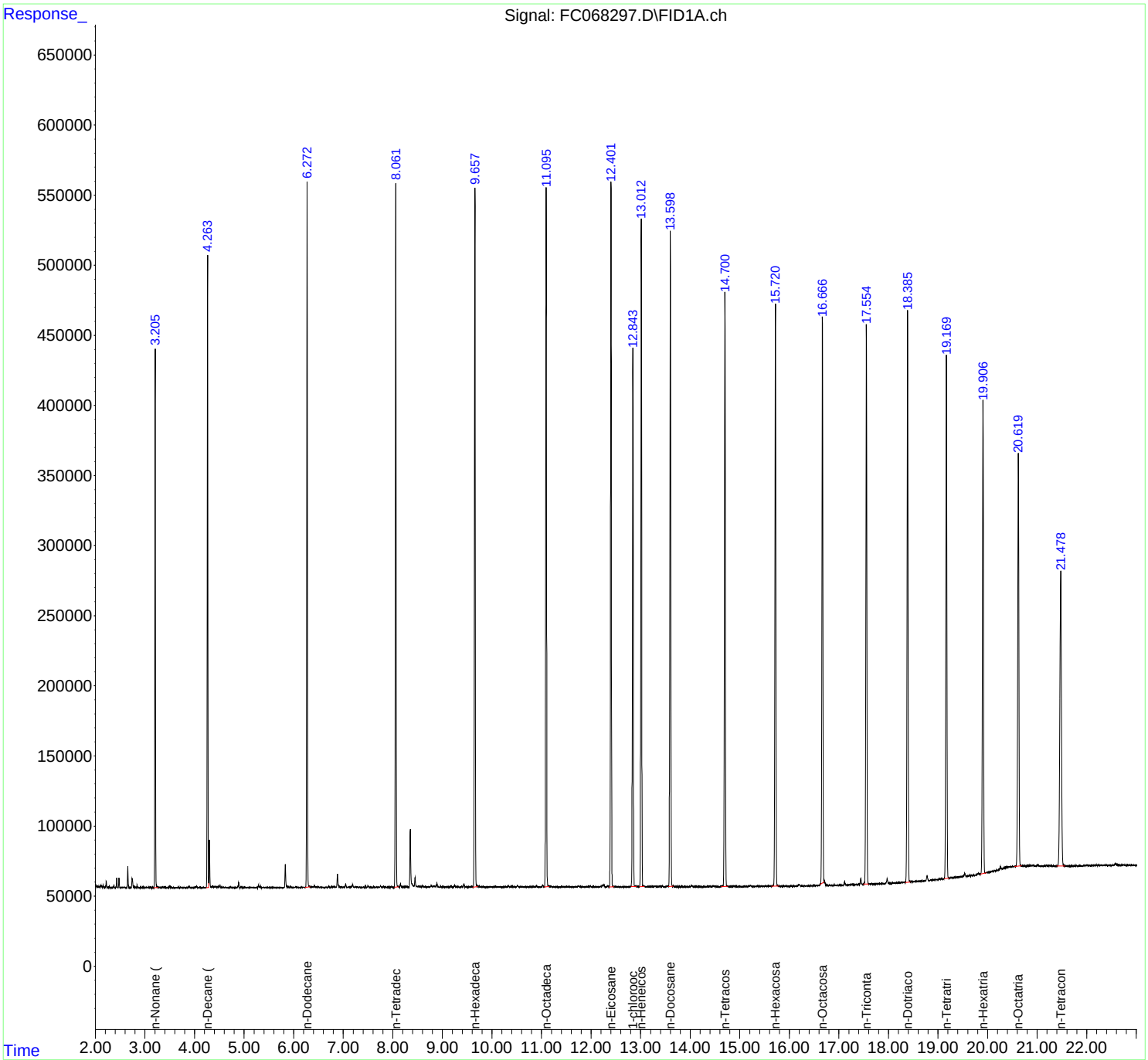
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068297.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

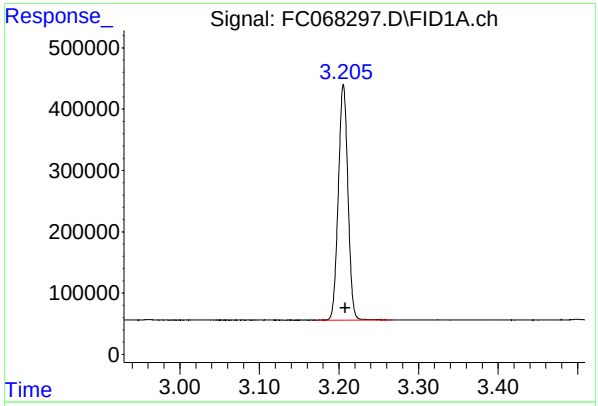
Integration File: autoint1.e
Quant Time: Mar 05 04:25:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB166863BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025





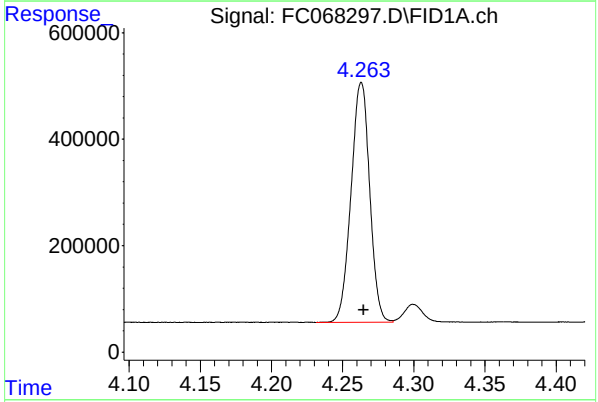
#1 n-Nonane (C9)

R.T.: 3.206 min
Delta R.T.: -0.002 min
Response: 3221618
Conc: 22.90 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BS

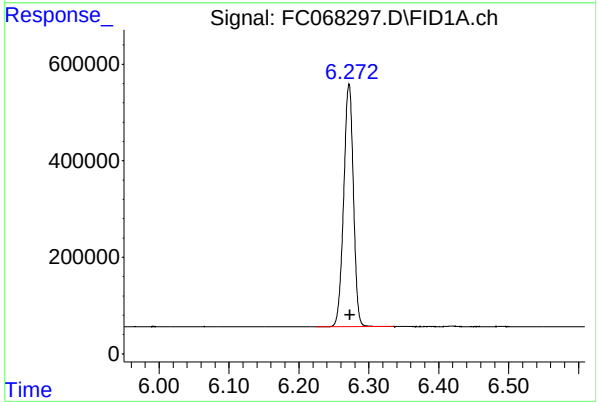
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



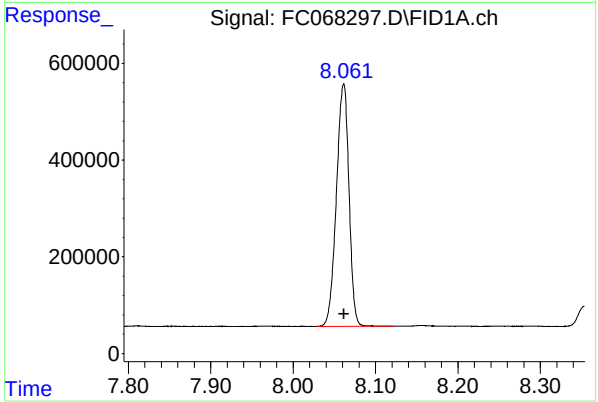
#2 n-Decane (C10)

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 4108269
Conc: 29.00 ug/ml



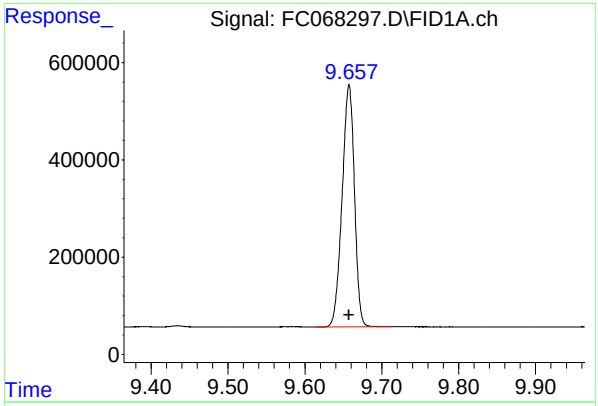
#4 n-Dodecane (C12)

R.T.: 6.272 min
Delta R.T.: -0.001 min
Response: 4857635
Conc: 34.51 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 5311836
Conc: 38.96 ug/ml



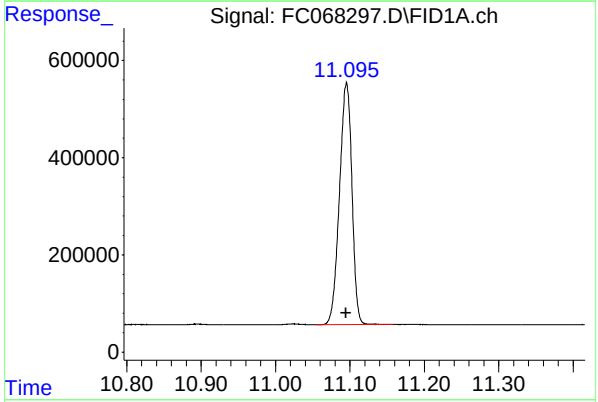
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 5538668
Conc: 40.44 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BS

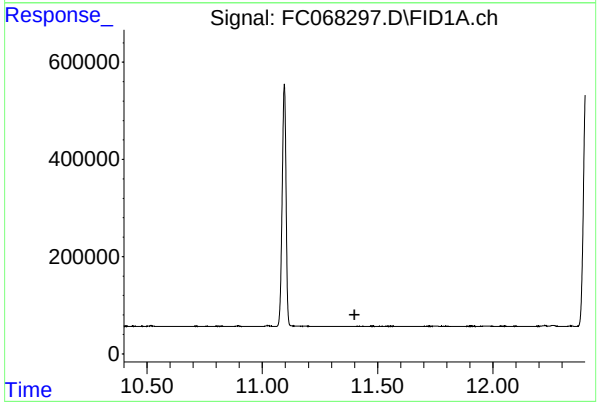
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



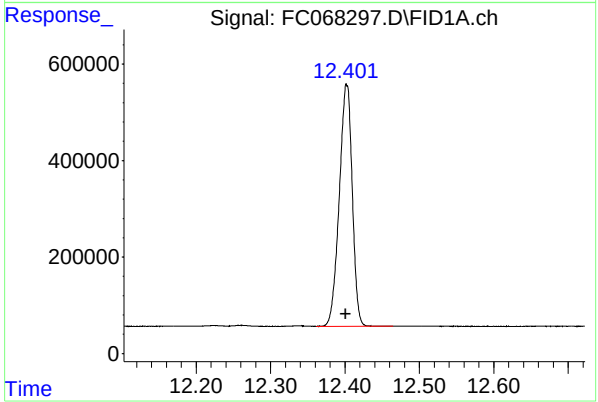
#8 n-Octadecane (C18)

R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 5793674
Conc: 42.36 ug/ml



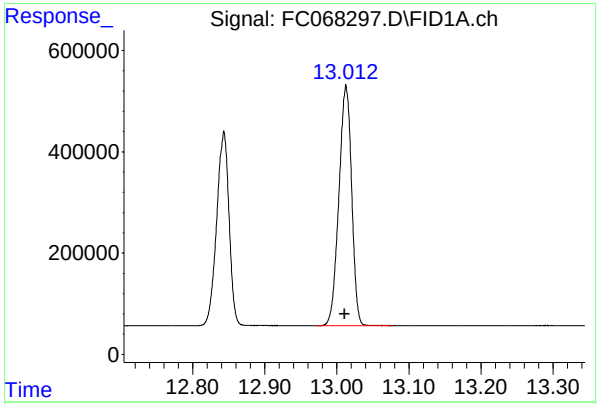
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.402 min
Delta R.T.: 0.001 min
Response: 6081631
Conc: 46.68 ug/ml



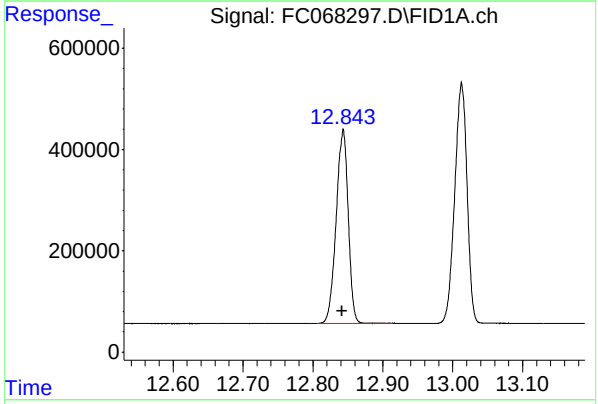
#11 n-Heneicosane (C21)

R.T.: 13.013 min
Delta R.T.: 0.002 min
Response: 5823276
Conc: 45.55 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BS

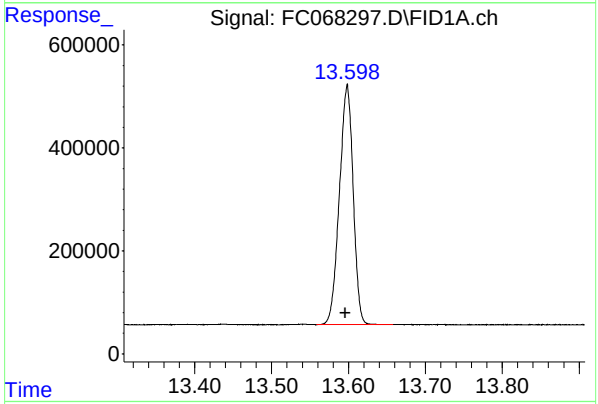
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



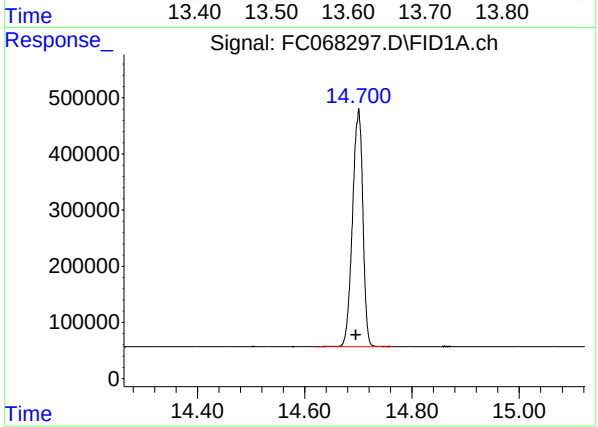
#12 1-chlorooctadecane (SURR)

R.T.: 12.843 min
Delta R.T.: 0.001 min
Response: 4574944
Conc: 40.68 ug/ml



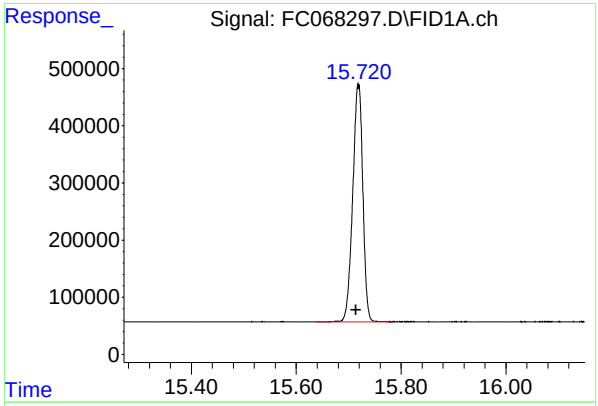
#13 n-Docosane (C22)

R.T.: 13.598 min
Delta R.T.: 0.002 min
Response: 5769887
Conc: 45.78 ug/ml



#14 n-Tetracosane (C24)

R.T.: 14.700 min
Delta R.T.: 0.004 min
Response: 5666270
Conc: 45.56 ug/ml



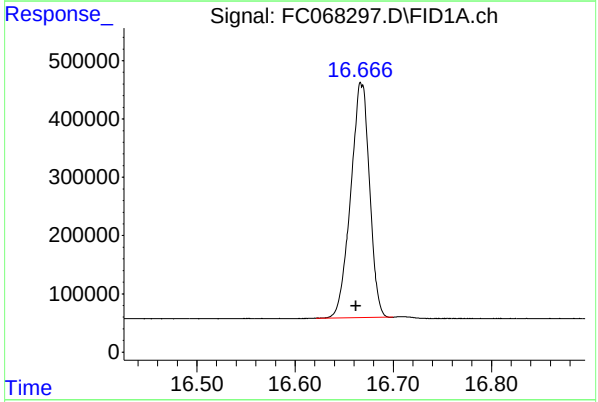
#15 n-Hexacosane (C26)

R.T.: 15.719 min
Delta R.T.: 0.005 min
Response: 5550320
Conc: 45.65 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BS

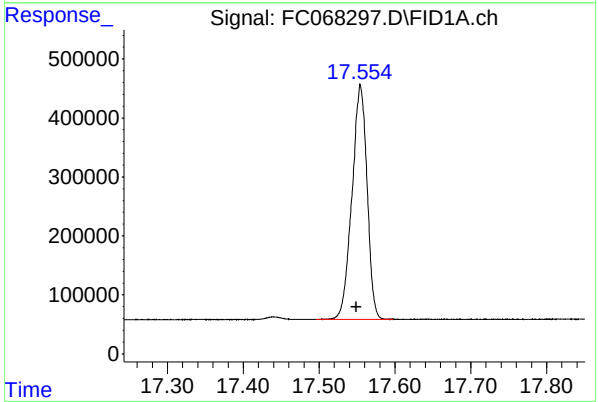
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



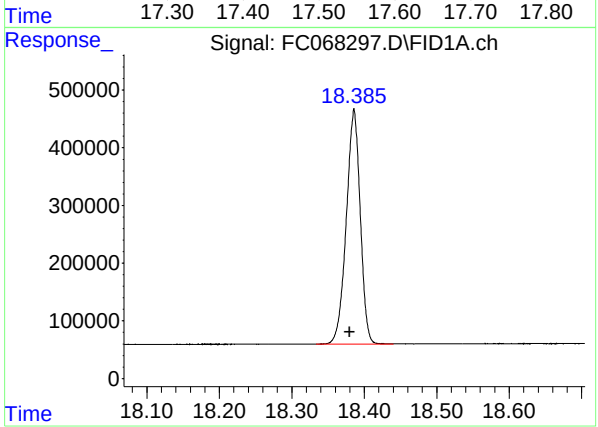
#16 n-Octacosane (C28)

R.T.: 16.667 min
Delta R.T.: 0.005 min
Response: 5378801
Conc: 45.29 ug/ml



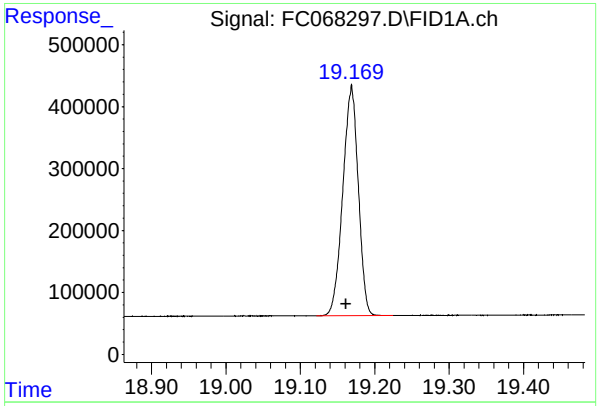
#17 n-Tricontane (C30)

R.T.: 17.554 min
Delta R.T.: 0.005 min
Response: 5501897
Conc: 45.71 ug/ml m



#18 n-Dotriacontane (C32)

R.T.: 18.385 min
Delta R.T.: 0.006 min
Response: 5451575
Conc: 46.97 ug/ml m



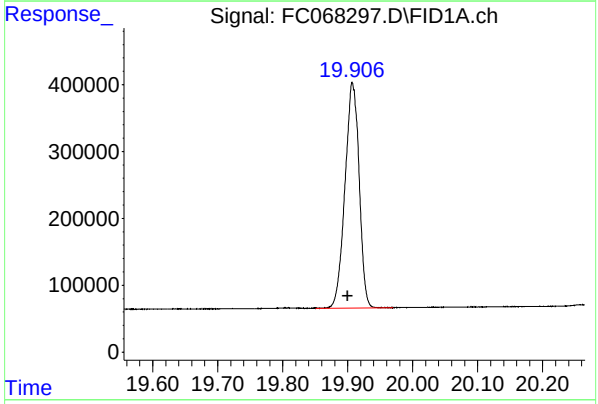
#19 n-Tetratriacontane (C34)

R.T.: 19.169 min
Delta R.T.: 0.007 min
Response: 5360093
Conc: 49.60 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BS

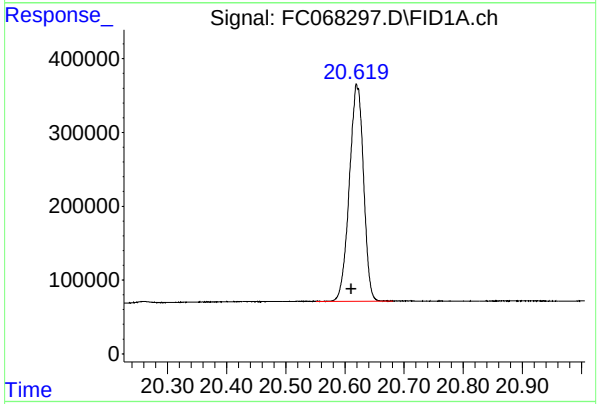
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



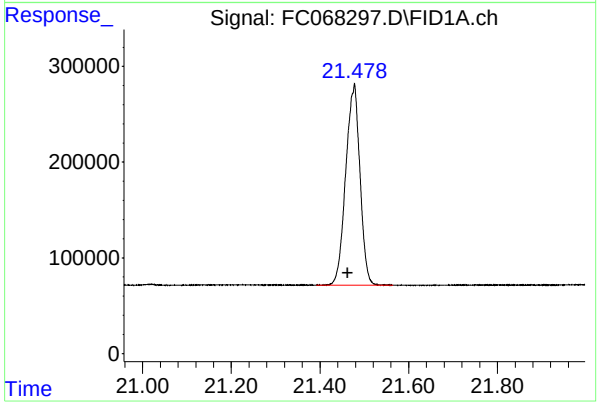
#20 n-Hexatriacontane (C36)

R.T.: 19.908 min
Delta R.T.: 0.008 min
Response: 5106343
Conc: 53.10 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.621 min
Delta R.T.: 0.010 min
Response: 4893810
Conc: 54.44 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.477 min
Delta R.T.: 0.014 min
Response: 4666615
Conc: 53.94 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068297.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:23
Sample : PB166863BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.206	3.171	3.268	BB	381826	3221618	52.97%	3.262%
2	4.263	4.231	4.285	BV	454536	4108269	67.55%	4.159%
3	6.272	6.225	6.335	BB	502514	4857635	79.87%	4.918%
4	8.061	8.028	8.121	BB	502495	5311836	87.34%	5.378%
5	9.657	9.615	9.715	BB	498144	5538668	91.07%	5.608%
6	11.095	11.055	11.158	BB	497198	5793674	95.27%	5.866%
7	12.402	12.361	12.465	BB	503049	6081631	100.00%	6.157%
8	12.843	12.805	12.915	BB	385236	4574944	75.23%	4.632%
9	13.013	12.971	13.078	BB	470344	5823276	95.75%	5.896%
10	13.598	13.558	13.658	BB	461828	5769887	94.87%	5.842%
11	14.700	14.621	14.765	BB	423477	5666270	93.17%	5.737%
12	15.719	15.638	15.785	BB	414513	5550320	91.26%	5.619%
13	16.667	16.598	16.741	BB	403789	5490499	90.28%	5.559%
14	17.555	17.478	17.608	BB	397052	5508592	90.58%	5.577%
15	18.386	18.321	18.451	BB	400274	5446732	89.56%	5.515%
16	19.169	19.121	19.225	BB	365901	5360093	88.14%	5.427%
17	19.908	19.851	19.970	BBA	335344	5106343	83.96%	5.170%
18	20.621	20.551	20.681	BB	290594	4893810	80.47%	4.955%
19	21.477	21.391	21.565	BB	210680	4666615	76.73%	4.725%
			Sum of corrected areas:			98770711		

Aliphatic EPH 021125.M Wed Feb 26 02:46:27 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.352	8337130	58.257 ug/ml
	Spiked Amount 50.000		Recovery = 116.51%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5441864	61.901 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 123.80%	
11)	S ortho-Terphenyl (SURR)	11.237	8579131	53.031 ug/ml
	Spiked Amount 50.000		Recovery = 106.06%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	7284149	45.739 ug/ml
2)	T Naphthalene (C11.7)	5.693	8222037	51.780 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	8074488	51.862 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	9136899	56.191 ug/ml
7)	T Acenaphthene (C15.5)	8.300	9599893	58.355 ug/ml
8)	T Flouorene (C16.55)	9.079	9673508	61.361 ug/ml
9)	T Phenanthrene (C19.36)	10.467	9815403	65.132 ug/ml
10)	T Anthracene (C19.43)	10.543	9838705	65.145 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10212040	66.177 ug/ml
13)	T Pyrene (C20.8)	12.566	10018958	65.034 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9485151	72.191 ug/ml
15)	T Chrysene (C27.41)	14.479	9302019	57.531 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	9472667	68.845 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9519915	60.275 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	9102339	67.059 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.733	8774948	80.300 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	8997450	57.996 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.983	8981700	61.964 ug/ml

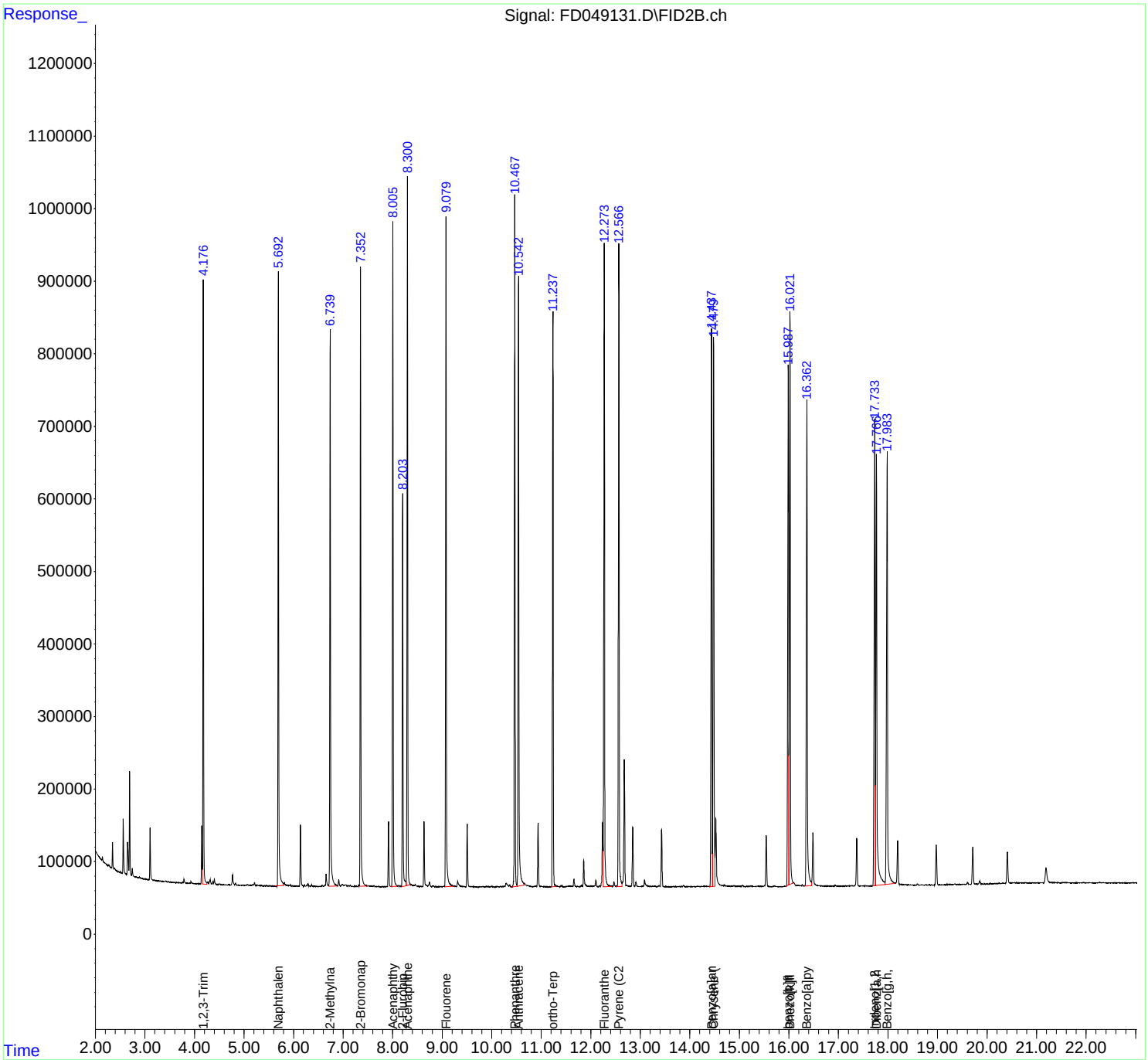
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.160	4.251	VV	832466	7284149	71.33%	3.877%
2	5.693	5.625	5.797	BV	847783	8222037	80.51%	4.376%
3	6.739	6.710	6.875	VV	766284	8074488	79.07%	4.298%
4	7.352	7.328	7.497	VB	853398	8337130	81.64%	4.438%
5	8.005	7.960	8.095	BV	916751	9136899	89.47%	4.863%
6	8.203	8.177	8.272	BV	542452	5441864	53.29%	2.897%
7	8.300	8.272	8.367	VV	975321	9599893	94.01%	5.110%
8	9.079	9.051	9.230	PV	926912	9673508	94.73%	5.149%
9	10.467	10.403	10.513	BV	952424	9815403	96.12%	5.225%
10	10.543	10.513	10.647	VV	840898	9838705	96.34%	5.237%
11	11.237	11.193	11.310	BV	791167	8579131	84.01%	4.567%
12	12.273	12.248	12.427	VB	888617	10212040	100.00%	5.436%
13	12.566	12.507	12.632	VV	889348	10018958	98.11%	5.333%
14	14.437	14.393	14.454	BV	768080	9485151	92.88%	5.049%
15	14.479	14.454	14.507	VV	756410	9302019	91.09%	4.951%
16	15.987	15.930	16.001	BV	716637	9472667	92.76%	5.042%
17	16.022	16.001	16.085	VV	788969	9519915	93.22%	5.067%
18	16.362	16.313	16.457	BV	670089	9102339	89.13%	4.845%
19	17.733	17.690	17.746	BV	643928	8774948	85.93%	4.671%
20	17.767	17.746	17.942	VV	594625	8997450	88.11%	4.789%
21	17.983	17.942	18.143	VV	596917	8981700	87.95%	4.781%

Sum of corrected areas: 187870394

Aromatic EPH 021125.M Sat Mar 01 03:53:48 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.840	4376930	38.915 ug/ml
Spiked Amount	50.000		Recovery =	77.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3770437	26.802 ug/ml
2) T	n-Decane (C10)	4.262	4690075	33.105 ug/ml
4) T	n-Dodecane (C12)	6.270	5370934	38.157 ug/ml
6) T	n-Tetradecane (C14)	8.059	5778269	42.380 ug/ml
7) T	n-Hexadecane (C16)	9.655	6026599	44.001 ug/ml
8) T	n-Octadecane (C18)	11.094	6267228	45.827 ug/ml
10) T	n-Eicosane (C20)	12.400	6468032	49.645 ug/ml
11) T	n-Heneicosane (C21)	13.011	6177617	48.320 ug/ml
13) T	n-Docosane (C22)	13.595	6141972	48.735 ug/ml
14) T	n-Tetracosane (C24)	14.696	6008487	48.309 ug/ml
15) T	n-Hexacosane (C26)	15.715	5879209	48.352 ug/ml
16) T	n-Octacosane (C28)	16.664	5728664	48.234 ug/ml
17) T	n-Tricontane (C30)	17.550	5730289	47.607 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5695730	49.073 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5652338	52.308 ug/ml
20) T	n-Hexatriacontane (C36)	19.903	5406820	56.222 ug/ml
21) T	n-Octatriacontane (C38)	20.615	5240074	58.289 ug/ml
22) T	n-Tetracontane (C40)	21.470	5034272	58.186 ug/ml

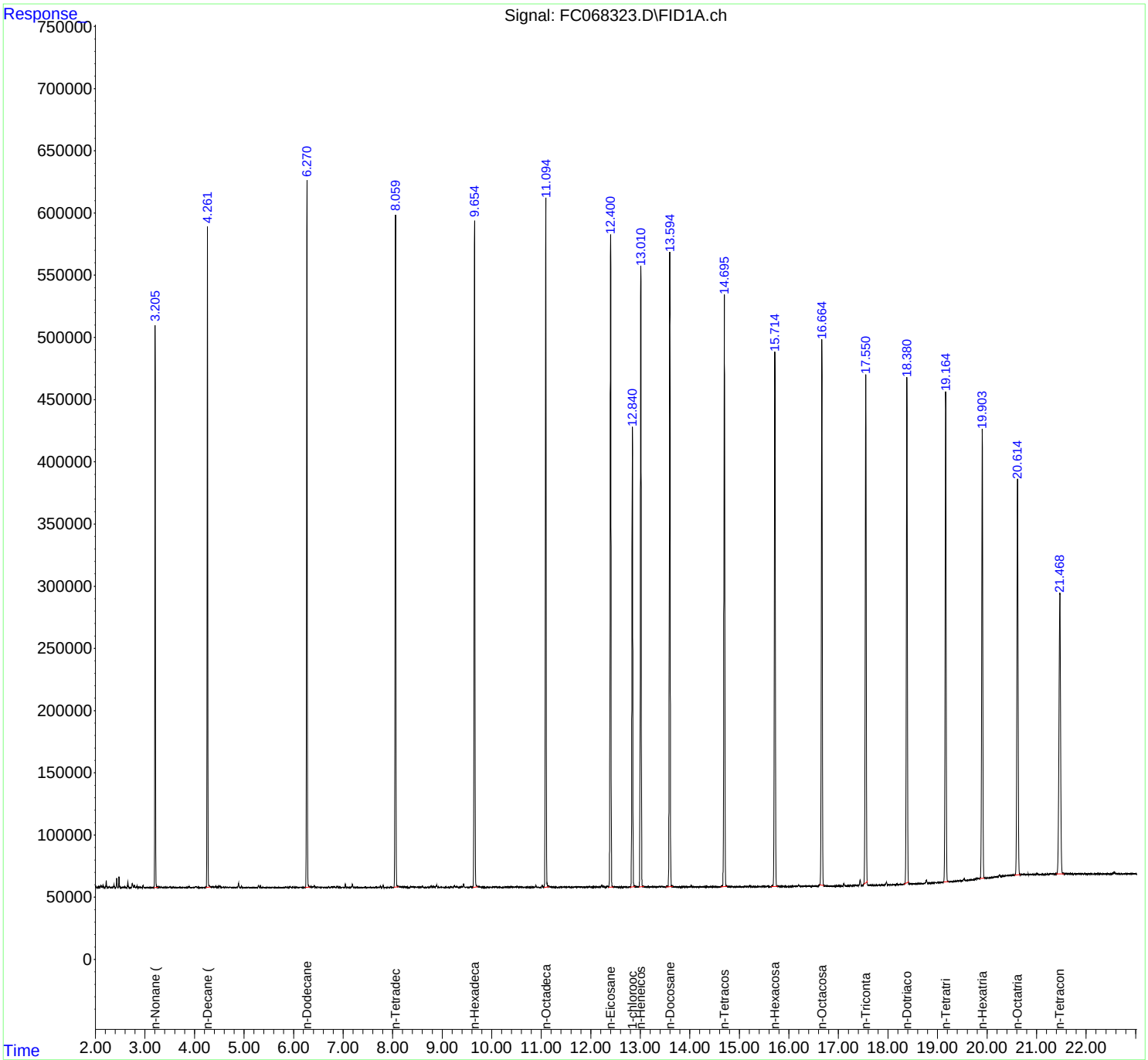
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.205	3.178	3.268	BB	449086	3770437	58.29%	3.570%
2	4.262	4.228	4.321	BB	526418	4690075	72.51%	4.441%
3	6.270	6.228	6.331	BB	569210	5370934	83.04%	5.085%
4	8.059	8.028	8.124	BB	538627	5778269	89.34%	5.471%
5	9.655	9.614	9.721	BB	535914	6026599	93.18%	5.706%
6	11.094	11.054	11.164	BB	550618	6267228	96.90%	5.934%
7	12.400	12.364	12.461	BB	527788	6468032	100.00%	6.124%
8	12.840	12.794	12.901	BB	374039	4376930	67.67%	4.144%
9	13.011	12.968	13.071	BB	499069	6177617	95.51%	5.849%
10	13.595	13.514	13.658	BB	506611	6141972	94.96%	5.815%
11	14.696	14.614	14.754	BB	474250	6008487	92.90%	5.689%
12	15.715	15.634	15.778	BB	426830	5879209	90.90%	5.567%
13	16.664	16.598	16.728	BB	438374	5768514	89.18%	5.462%
14	17.550	17.488	17.608	BB	407922	5811305	89.85%	5.502%
15	18.381	18.304	18.448	BB	407994	5745667	88.83%	5.440%
16	19.164	19.121	19.224	BB	392230	5652338	87.39%	5.352%
17	19.903	19.851	19.948	BB	359474	5406820	83.59%	5.119%
18	20.615	20.551	20.678	BB	318753	5240074	81.01%	4.961%
19	21.470	21.391	21.554	BB	221575	5034272	77.83%	4.767%

Sum of corrected areas: 105614773

Aliphatic EPH 021125.M Sat Mar 01 01:23:14 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049103.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File: autoint1.e
Quant Time: Feb 26 01:33:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.354	8562419	59.831 ug/ml
	Spiked Amount 50.000		Recovery = 119.66%	
6)	S 2-Flurobiphenyl (SURR)	8.204	4975359	56.595 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 113.19%	
11)	S ortho-Terphenyl (SURR)	11.239	8267824	51.107 ug/ml
	Spiked Amount 50.000		Recovery = 102.21%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.178	6036938	37.908 ug/ml
2)	T Naphthalene (C11.7)	5.694	7123358	44.861 ug/ml
3)	T 2-Methylnaphthalene (...	6.741	7238167	46.490 ug/ml
5)	T Acenaphthylene (C15.06)	8.007	8331286	51.236 ug/ml
7)	T Acenaphthene (C15.5)	8.302	8763060	53.268 ug/ml
8)	T Flouorene (C16.55)	9.081	8780584	55.697 ug/ml
9)	T Phenanthrene (C19.36)	10.469	8838259	58.648 ug/ml
10)	T Anthracene (C19.43)	10.545	8995903	59.564 ug/ml
12)	T Fluoranthene (C21.85)	12.273	9090301	58.907 ug/ml
13)	T Pyrene (C20.8)	12.566	8873510	57.598 ug/ml
14)	T Benzo[a]anthracene (C...	14.438	8339919	63.475 ug/ml
15)	T Chrysene (C27.41)	14.480	8235263	50.934 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	8292228	60.266 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.021	8408302	53.237 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	8013250	59.035 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.734	7573771	69.308 ug/mlm
20)	T Dibenz[a,h]anthracene...	17.767	8097331	52.194 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.984	8000939	55.198 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

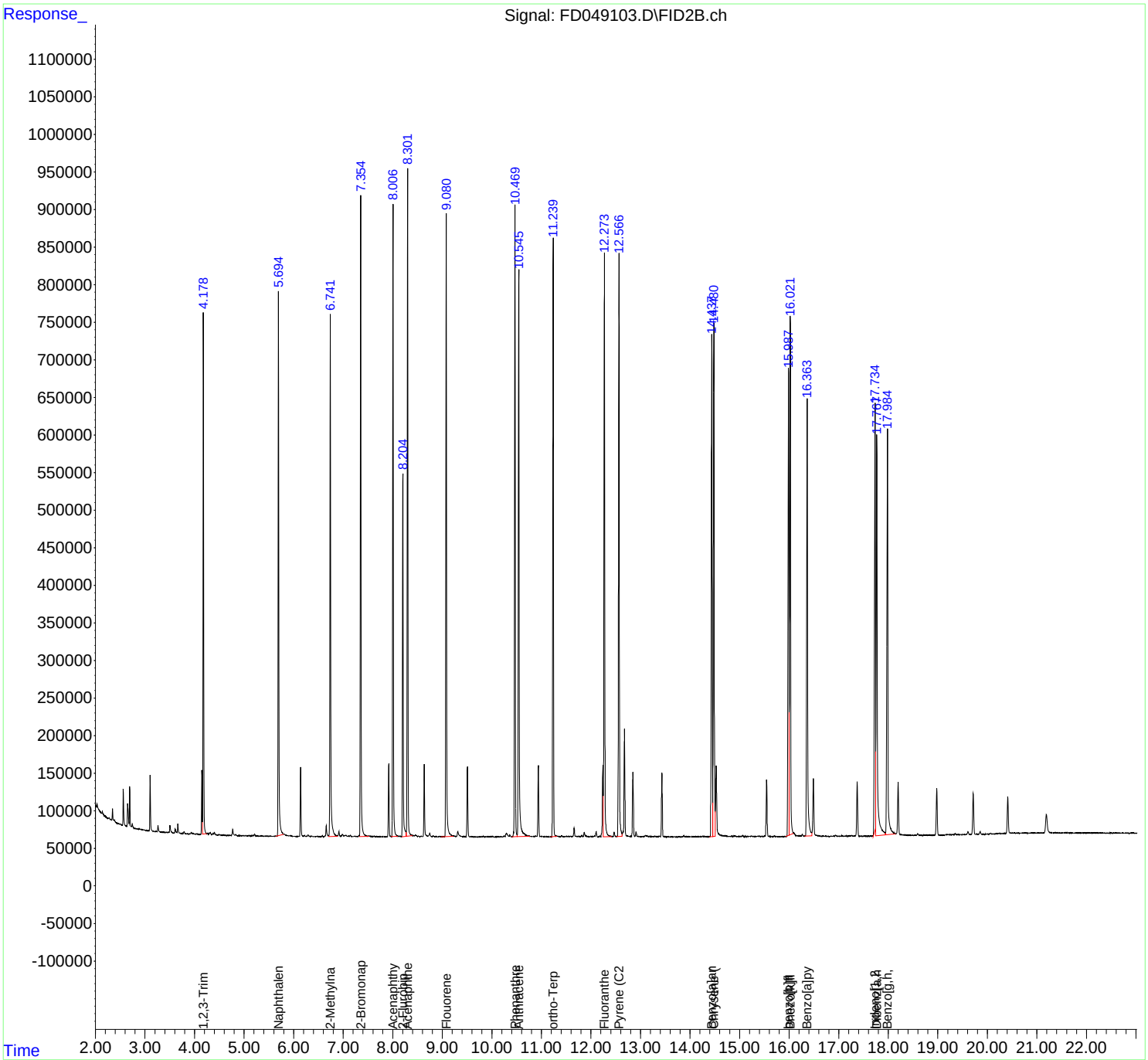
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049103.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File: autoint1.e
Quant Time: Feb 26 01:33:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



Instrument :
FID_D
ClientSampleId :
PB166863BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02252
Data File : FD049103.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:59
Sample : PB166863BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.178	4.161	4.252	VV	692403	6036938	66.41%	3.573%
2	5.694	5.639	5.799	BV	723665	7123358	78.36%	4.216%
3	6.741	6.712	6.885	VV	691652	7238167	79.63%	4.284%
4	7.354	7.329	7.524	VB	849678	8562419	94.19%	5.067%
5	8.007	7.960	8.102	BV	842423	8331286	91.65%	4.931%
6	8.204	8.180	8.273	BV	482492	4975359	54.73%	2.945%
7	8.302	8.273	8.402	VB	888349	8763060	96.40%	5.186%
8	9.081	8.969	9.223	BV	828620	8780584	96.59%	5.197%
9	10.469	10.399	10.514	BV	840553	8838259	97.23%	5.231%
10	10.545	10.514	10.772	VB	757459	8995903	98.96%	5.324%
11	11.239	11.180	11.312	BV	795698	8267824	90.95%	4.893%
12	12.273	12.250	12.420	VB	776498	9090301	100.00%	5.380%
13	12.566	12.514	12.629	BV	777629	8873510	97.62%	5.252%
14	14.438	14.394	14.456	BV	668954	8339919	91.75%	4.936%
15	14.480	14.456	14.507	VV	683605	8235263	90.59%	4.874%
16	15.987	15.930	16.002	BV	621691	8292228	91.22%	4.908%
17	16.021	16.002	16.089	VV	691504	8408302	92.50%	4.976%
18	16.362	16.310	16.457	BV	580003	8013250	88.15%	4.742%
19	17.733	17.690	17.747	BV	575539	7704959	84.76%	4.560%
20	17.767	17.747	17.944	VV	531539	8097331	89.08%	4.792%
21	17.984	17.944	18.152	VV	538637	8000939	88.02%	4.735%
			Sum of corrected areas:			168969159		

Aromatic EPH 021125.M Wed Feb 26 01:56:56 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068298.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166863BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Integration File: autoint1.e
Quant Time: Mar 05 04:25:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.843	4496924	39.982 ug/ml
Spiked Amount	50.000		Recovery =	79.96%
	Target Compounds			
1) T	n-Nonane (C9)	3.207	3285660	23.356 ug/ml
2) T	n-Decane (C10)	4.263	4185108	29.541 ug/ml
4) T	n-Dodecane (C12)	6.272	4932731	35.044 ug/ml
6) T	n-Tetradecane (C14)	8.061	5376672	39.435 ug/ml
7) T	n-Hexadecane (C16)	9.657	5577654	40.723 ug/ml
8) T	n-Octadecane (C18)	11.096	5804058	42.440 ug/ml
10) T	n-Eicosane (C20)	12.402	6071641	46.602 ug/ml
11) T	n-Heneicosane (C21)	13.013	5796518	45.339 ug/ml
13) T	n-Docosane (C22)	13.598	5740028	45.546 ug/ml
14) T	n-Tetracosane (C24)	14.700	5626795	45.240 ug/ml
15) T	n-Hexacosane (C26)	15.719	5512084	45.332 ug/ml
16) T	n-Octacosane (C28)	16.667	5352082	45.064 ug/ml
17) T	n-Tricontane (C30)	17.552	5468791	45.435 ug/mlm
18) T	n-Dotriacontane (C32)	18.384	5422072	46.715 ug/mlm
19) T	n-Tetratriacontane (C34)	19.168	5357393	49.579 ug/ml
20) T	n-Hexatriacontane (C36)	19.907	5113233	53.169 ug/ml
21) T	n-Octatriacontane (C38)	20.620	4922998	54.762 ug/ml
22) T	n-Tetracontane (C40)	21.476	4711323	54.453 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

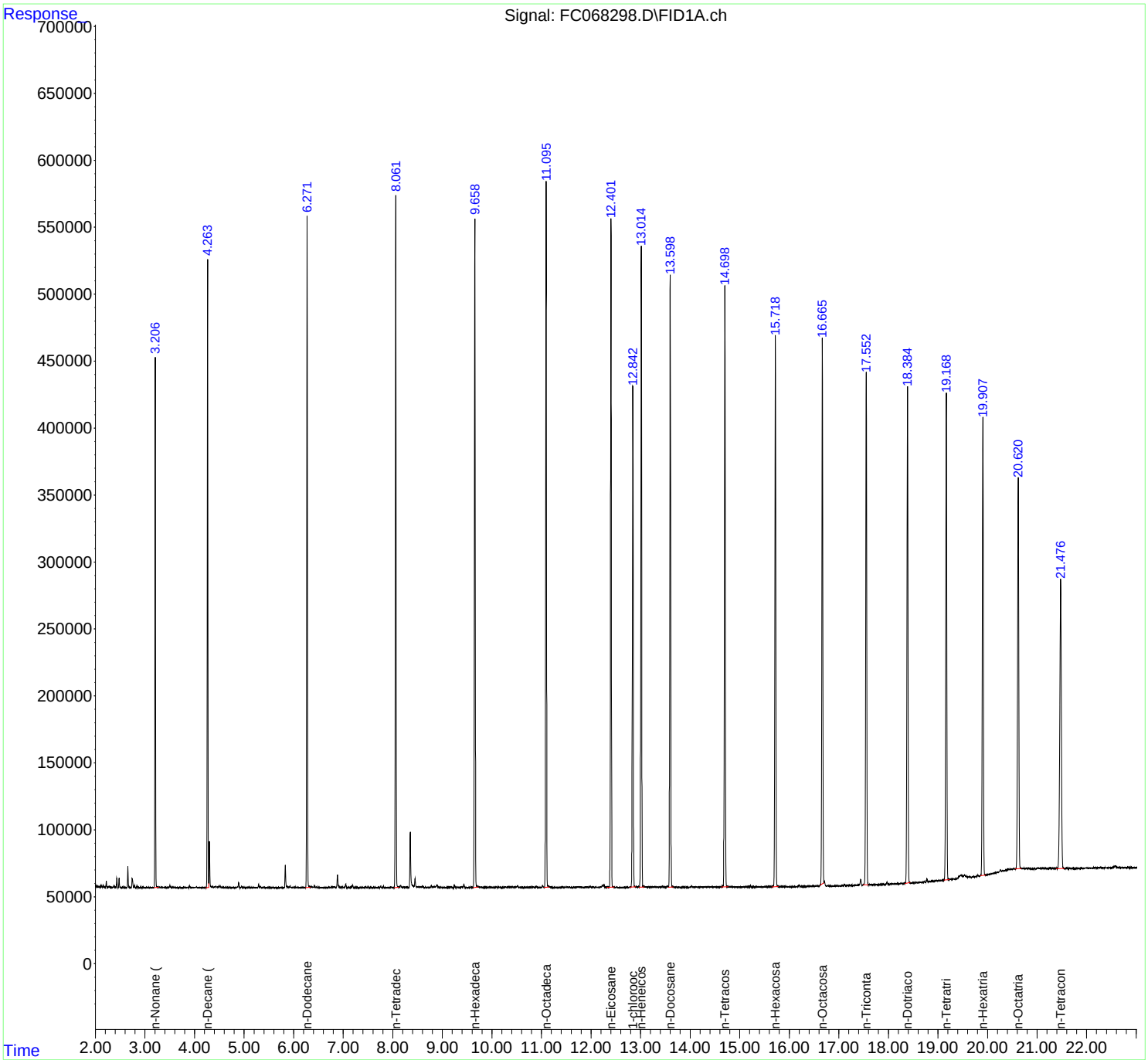
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068298.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

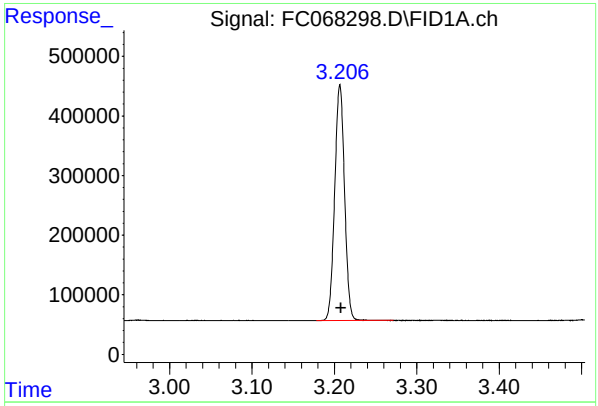
Integration File: autoint1.e
Quant Time: Mar 05 04:25:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
PB166863BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025





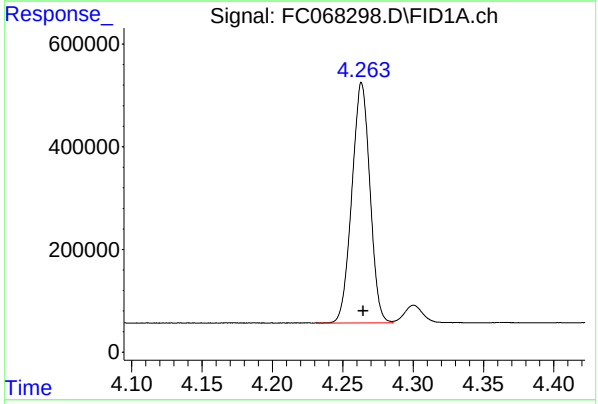
#1 n-Nonane (C9)

R.T.: 3.207 min
Delta R.T.: -0.001 min
Response: 3285660
Conc: 23.36 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BSD

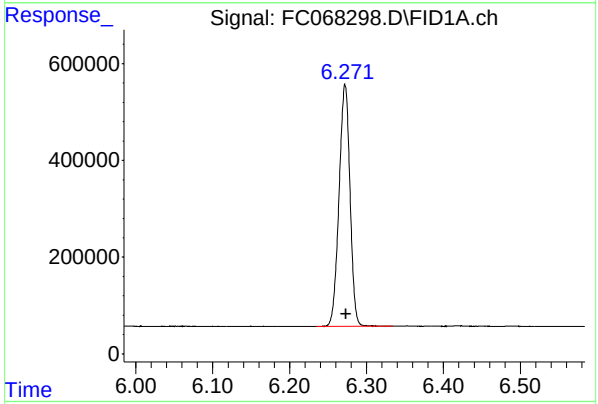
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



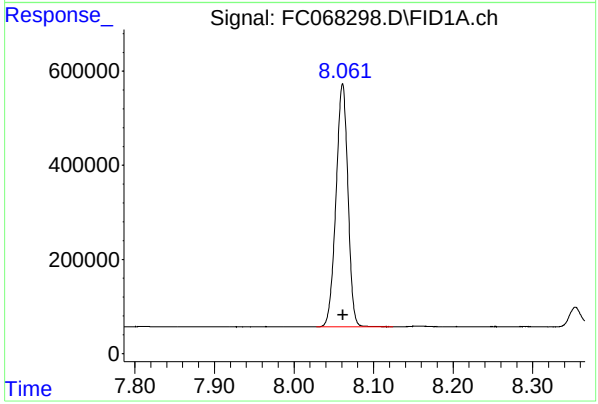
#2 n-Decane (C10)

R.T.: 4.263 min
Delta R.T.: -0.001 min
Response: 4185108
Conc: 29.54 ug/ml



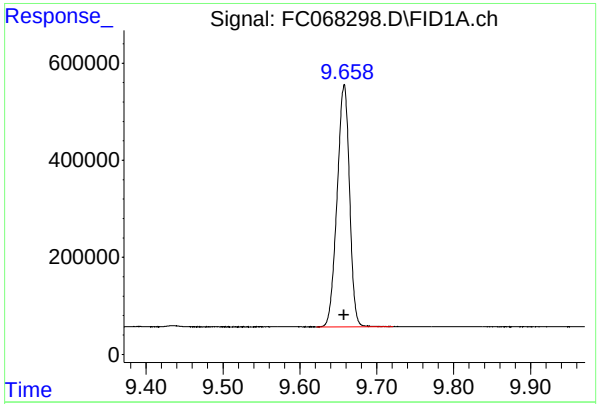
#4 n-Dodecane (C12)

R.T.: 6.272 min
Delta R.T.: -0.001 min
Response: 4932731
Conc: 35.04 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 5376672
Conc: 39.43 ug/ml



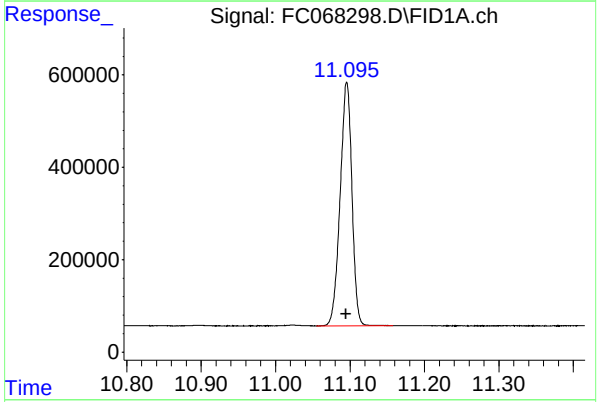
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 5577654
Conc: 40.72 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BSD

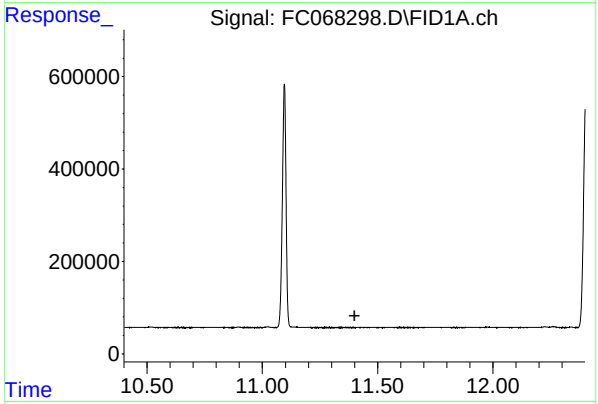
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



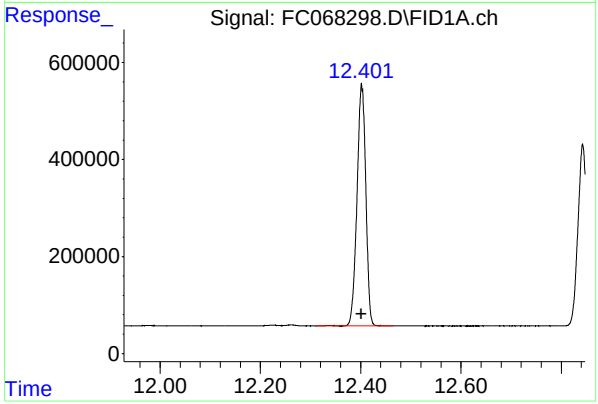
#8 n-Octadecane (C18)

R.T.: 11.096 min
Delta R.T.: 0.000 min
Response: 5804058
Conc: 42.44 ug/ml



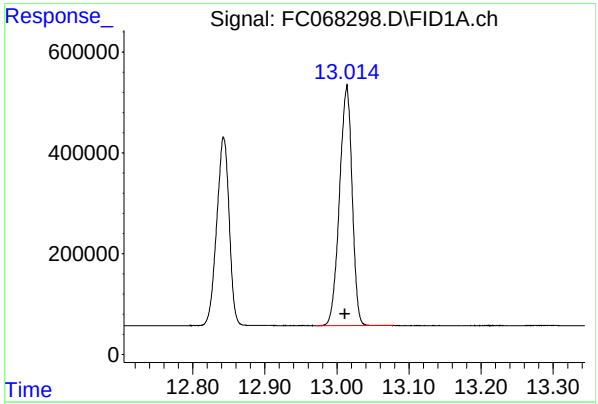
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.402 min
Delta R.T.: 0.001 min
Response: 6071641
Conc: 46.60 ug/ml



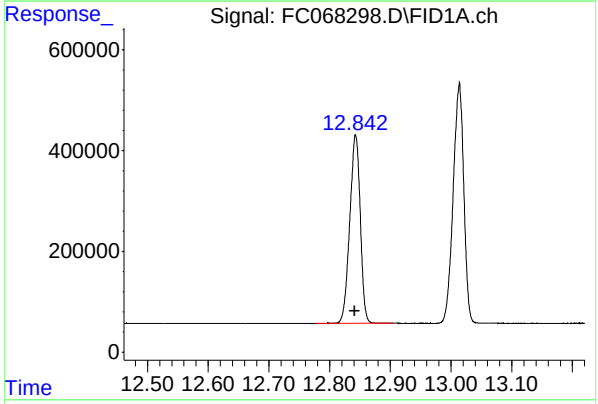
#11 n-Heneicosane (C21)

R.T.: 13.013 min
Delta R.T.: 0.003 min
Response: 5796518
Conc: 45.34 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BSD

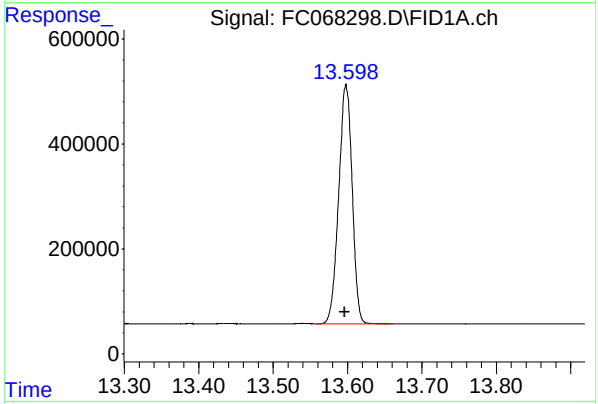
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



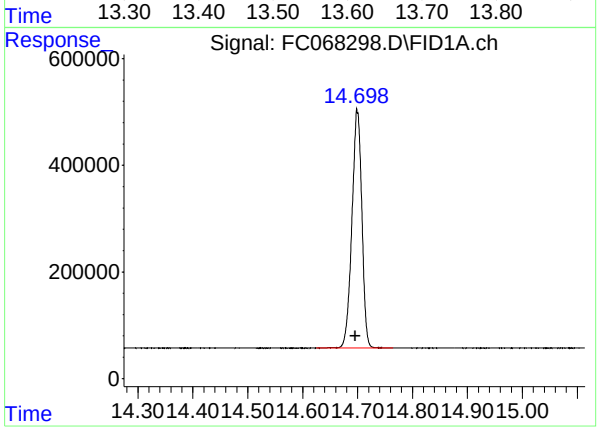
#12 1-chlorooctadecane (SURR)

R.T.: 12.843 min
Delta R.T.: 0.001 min
Response: 4496924
Conc: 39.98 ug/ml



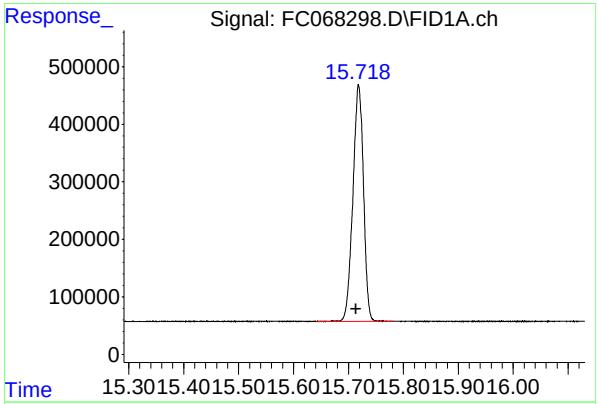
#13 n-Docosane (C22)

R.T.: 13.598 min
Delta R.T.: 0.002 min
Response: 5740028
Conc: 45.55 ug/ml



#14 n-Tetracosane (C24)

R.T.: 14.700 min
Delta R.T.: 0.004 min
Response: 5626795
Conc: 45.24 ug/ml



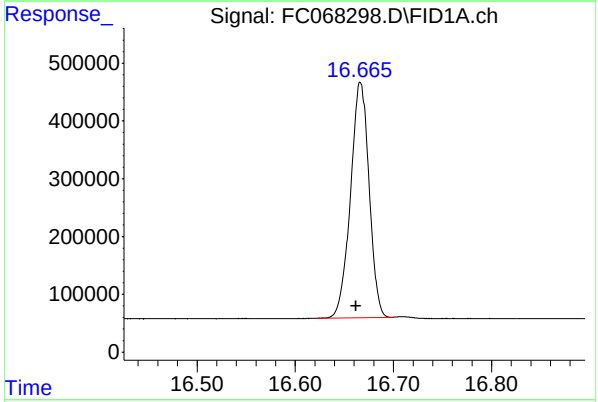
#15 n-Hexacosane (C26)

R.T.: 15.719 min
Delta R.T.: 0.005 mi
Response: 5512084
Conc: 45.33 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BSD

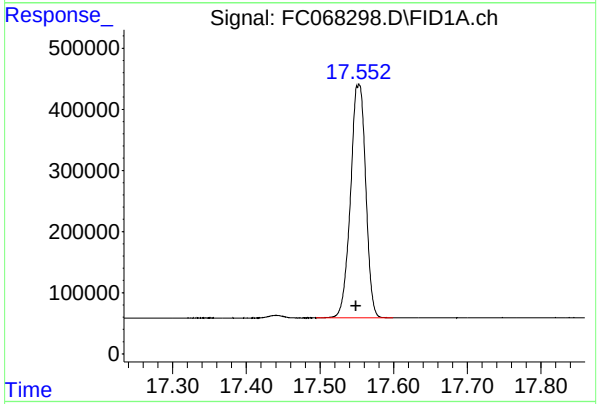
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



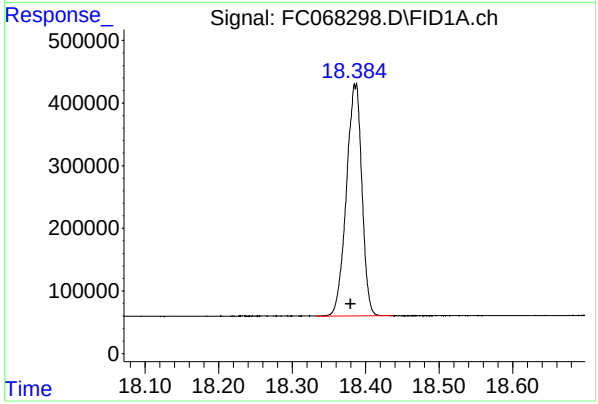
#16 n-Octacosane (C28)

R.T.: 16.667 min
Delta R.T.: 0.005 min
Response: 5352082
Conc: 45.06 ug/ml



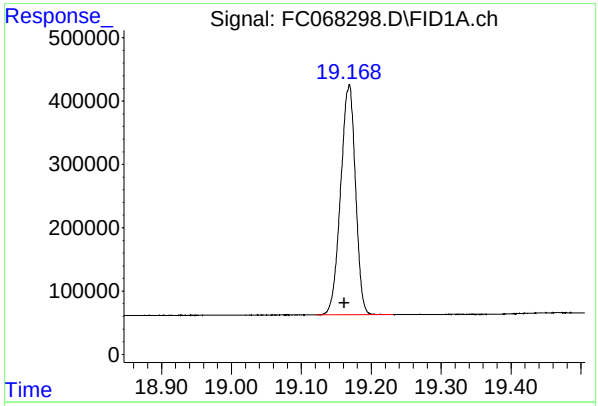
#17 n-Tricontane (C30)

R.T.: 17.552 min
Delta R.T.: 0.003 min
Response: 5468791
Conc: 45.43 ug/ml m



#18 n-Dotriacontane (C32)

R.T.: 18.384 min
Delta R.T.: 0.005 min
Response: 5422072
Conc: 46.72 ug/ml m



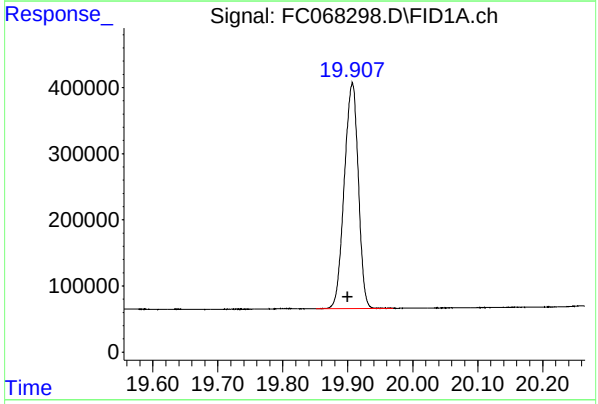
#19 n-Tetratriacontane (C34)

R.T.: 19.168 min
Delta R.T.: 0.007 min
Response: 5357393
Conc: 49.58 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166863BSD

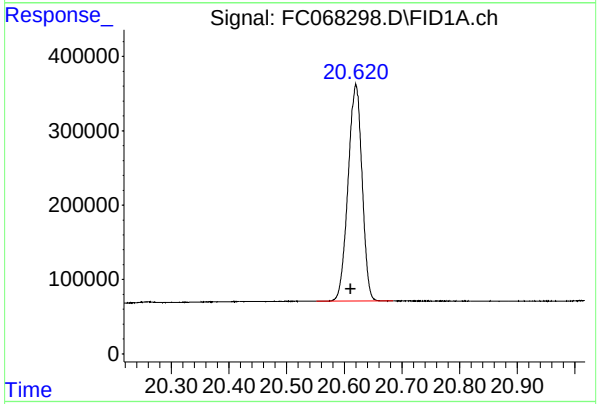
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



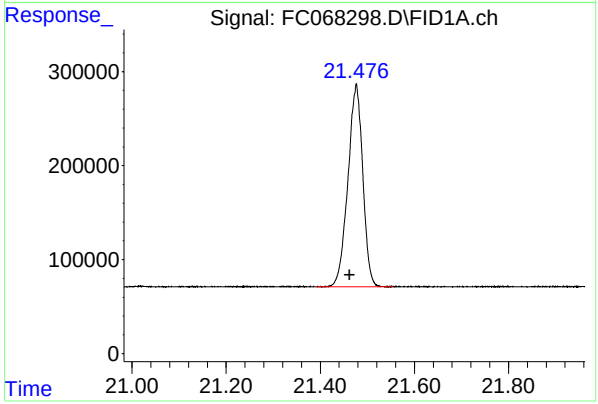
#20 n-Hexatriacontane (C36)

R.T.: 19.907 min
Delta R.T.: 0.007 min
Response: 5113233
Conc: 53.17 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.620 min
Delta R.T.: 0.009 min
Response: 4922998
Conc: 54.76 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.476 min
Delta R.T.: 0.014 min
Response: 4711323
Conc: 54.45 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068298.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:59
Sample : PB166863BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.207	3.178	3.271	BB	394144	3285660	54.11%	3.323%
2	4.264	4.231	4.286	BV	465931	4185108	68.93%	4.233%
3	6.272	6.234	6.334	BB	496576	4932731	81.24%	4.989%
4	8.061	8.028	8.124	BB	517361	5376672	88.55%	5.438%
5	9.657	9.621	9.721	BB	499262	5577654	91.86%	5.641%
6	11.096	11.054	11.158	BB	525903	5804058	95.59%	5.870%
7	12.402	12.311	12.464	BB	496808	6071641	100.00%	6.141%
8	12.843	12.778	12.904	BB	373394	4496924	74.06%	4.548%
9	13.013	12.971	13.078	BB	475226	5796518	95.47%	5.863%
10	13.598	13.558	13.661	BB	454418	5740028	94.54%	5.806%
11	14.700	14.624	14.764	BB	444140	5626795	92.67%	5.691%
12	15.719	15.641	15.781	BB	410608	5512084	90.78%	5.575%
13	16.667	16.598	16.744	BB	405362	5462984	89.98%	5.525%
14	17.553	17.484	17.614	BB	383316	5475455	90.18%	5.538%
15	18.386	18.328	18.444	BB	371607	5421196	89.29%	5.483%
16	19.168	19.121	19.231	BB	360673	5357393	88.24%	5.419%
17	19.907	19.851	19.969	BBA	342289	5113233	84.22%	5.172%
18	20.620	20.551	20.684	BB	291420	4922998	81.08%	4.979%
19	21.476	21.391	21.554	BB	215030	4711323	77.60%	4.765%
			Sum of corrected areas:			98870452		

Aliphatic EPH 021125.M Wed Feb 26 02:47:32 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.352	8444315	59.006 ug/ml
	Spiked Amount 50.000		Recovery = 118.01%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5539761	63.015 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 126.03%	
11)	S ortho-Terphenyl (SURR)	11.237	8675284	53.626 ug/ml
	Spiked Amount 50.000		Recovery = 107.25%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.177	7363423	46.237 ug/ml
2)	T Naphthalene (C11.7)	5.693	8299718	52.269 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	8179915	52.539 ug/ml
5)	T Acenaphthylene (C15.06)	8.006	9241947	56.837 ug/ml
7)	T Acenaphthene (C15.5)	8.301	9806969	59.614 ug/ml
8)	T Flouorene (C16.55)	9.079	9794107	62.126 ug/ml
9)	T Phenanthrene (C19.36)	10.467	9953645	66.049 ug/ml
10)	T Anthracene (C19.43)	10.543	10019118	66.339 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10371581	67.210 ug/ml
13)	T Pyrene (C20.8)	12.567	10147707	65.869 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9644699	73.405 ug/ml
15)	T Chrysene (C27.41)	14.480	9454131	58.472 ug/ml
16)	T benzo[b]fluoranthene ...	15.988	9628743	69.979 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9681524	61.298 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.364	9238467	68.062 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.734	8949996	81.902 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	9240484	59.562 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.985	9127178	62.967 ug/ml

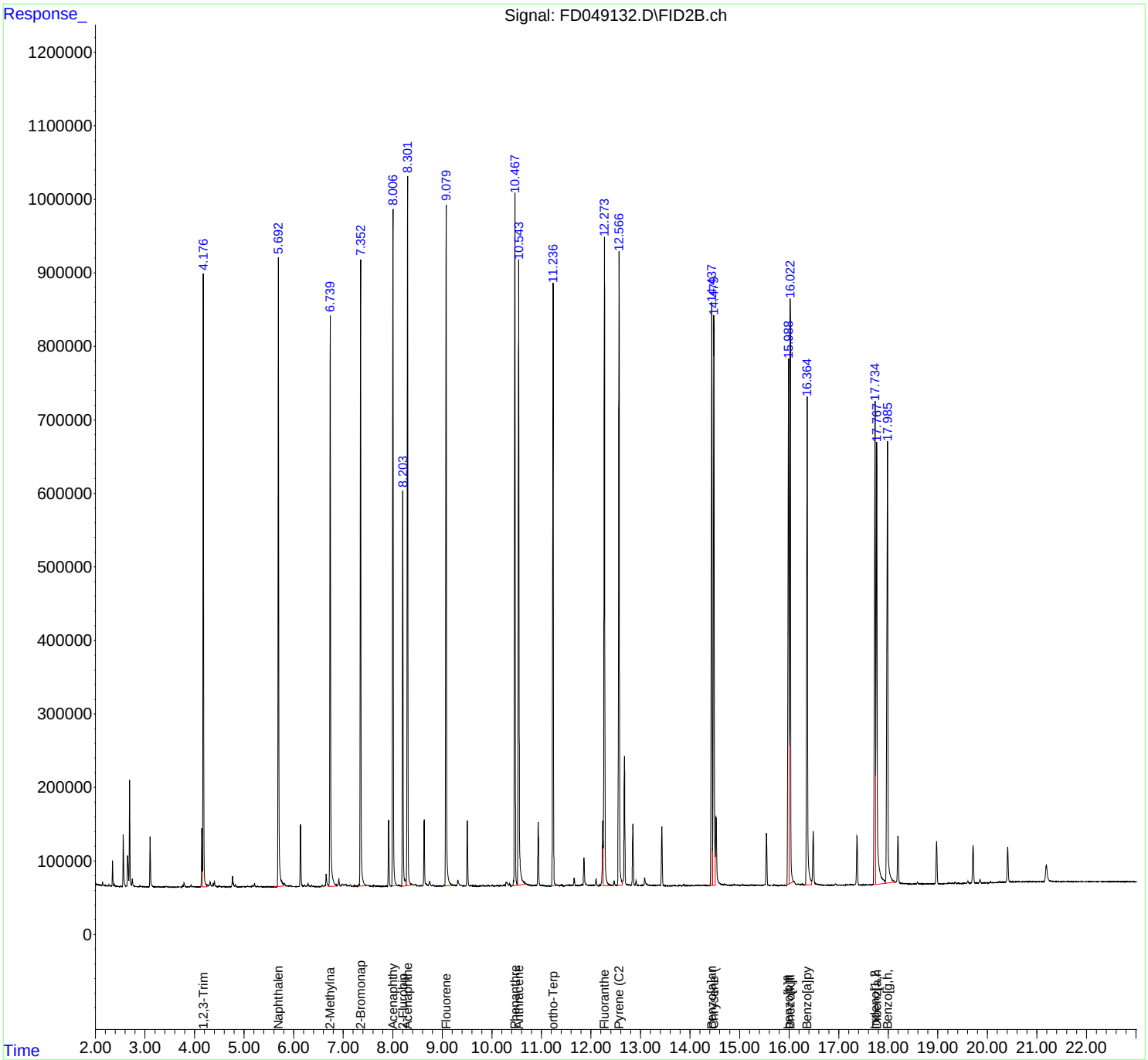
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.177	4.160	4.254	VV	833763	7363423	71.00%	3.859%
2	5.693	5.614	5.796	BV	854382	8299718	80.02%	4.350%
3	6.739	6.710	6.882	VV	774369	8179915	78.87%	4.287%
4	7.352	7.328	7.502	VV	850747	8444315	81.42%	4.426%
5	8.006	7.960	8.097	BV	918197	9241947	89.11%	4.844%
6	8.203	8.174	8.272	BV	537561	5539761	53.41%	2.903%
7	8.301	8.272	8.420	VB	960907	9806969	94.56%	5.140%
8	9.079	8.979	9.222	BV	923928	9794107	94.43%	5.133%
9	10.467	10.394	10.515	PV	942889	9953645	95.97%	5.217%
10	10.543	10.515	10.685	VV	852864	10019118	96.60%	5.251%
11	11.237	11.182	11.305	BV	818909	8675284	83.64%	4.547%
12	12.273	12.248	12.427	VB	878971	10371581	100.00%	5.436%
13	12.567	12.525	12.631	BV	861958	10147707	97.84%	5.318%
14	14.437	14.350	14.455	BV	792508	9644699	92.99%	5.055%
15	14.480	14.455	14.507	VV	775232	9454131	91.15%	4.955%
16	15.988	15.930	16.001	BV	716576	9628743	92.84%	5.046%
17	16.022	16.001	16.089	VV	793985	9681524	93.35%	5.074%
18	16.364	16.310	16.457	BV	664714	9238467	89.07%	4.842%
19	17.734	17.692	17.746	BV	656393	8949996	86.29%	4.691%
20	17.767	17.746	17.944	VV	600565	9240484	89.09%	4.843%
21	17.985	17.944	18.144	VV	600259	9127178	88.00%	4.784%

Sum of corrected areas: 190802711

Aromatic EPH 021125.M Sat Mar 01 03:55:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.840	4356774	38.736 ug/ml
Spiked Amount	50.000		Recovery =	77.47%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3794951	26.976 ug/ml
2) T	n-Decane (C10)	4.262	4712176	33.261 ug/ml
4) T	n-Dodecane (C12)	6.270	5382829	38.242 ug/ml
6) T	n-Tetradecane (C14)	8.059	5779518	42.389 ug/ml
7) T	n-Hexadecane (C16)	9.655	6016543	43.927 ug/ml
8) T	n-Octadecane (C18)	11.093	6243297	45.652 ug/ml
10) T	n-Eicosane (C20)	12.399	6441586	49.442 ug/ml
11) T	n-Heneicosane (C21)	13.010	6154772	48.142 ug/ml
13) T	n-Docosane (C22)	13.595	6104328	48.436 ug/ml
14) T	n-Tetracosane (C24)	14.697	5990514	48.164 ug/ml
15) T	n-Hexacosane (C26)	15.715	5861152	48.203 ug/ml
16) T	n-Octacosane (C28)	16.664	5725382	48.207 ug/ml
17) T	n-Tricontane (C30)	17.551	5737111	47.664 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5715622	49.244 ug/ml
19) T	n-Tetratriacontane (C34)	19.163	5668029	52.453 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	5431820	56.482 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5265474	58.572 ug/ml
22) T	n-Tetracontane (C40)	21.470	5078129	58.693 ug/ml

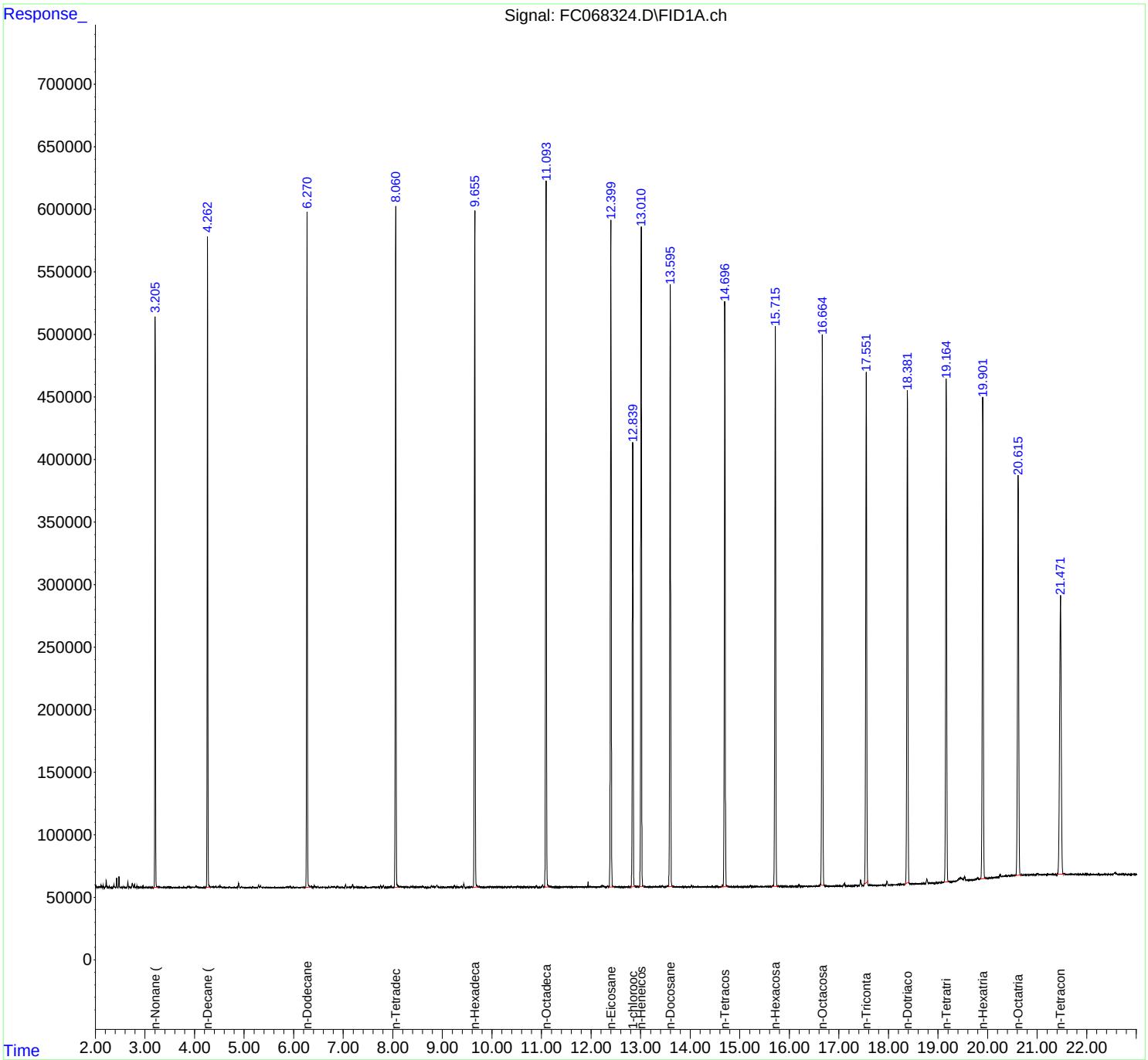
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.205	3.168	3.268	BB	454324	3794951	58.91%	3.592%
2	4.262	4.231	4.325	BB	517887	4712176	73.15%	4.460%
3	6.270	6.231	6.338	BB	544816	5382829	83.56%	5.095%
4	8.059	8.028	8.128	BB	537206	5779518	89.72%	5.471%
5	9.655	9.615	9.731	BB	535033	6016543	93.40%	5.695%
6	11.093	11.051	11.165	BB	558187	6243297	96.92%	5.910%
7	12.399	12.358	12.451	BB	523836	6441586	100.00%	6.097%
8	12.840	12.778	12.898	BB	356315	4356774	67.64%	4.124%
9	13.010	12.968	13.071	BB	522913	6154772	95.55%	5.826%
10	13.595	13.558	13.658	BB	481011	6104328	94.76%	5.778%
11	14.697	14.618	14.758	BB	467416	5990514	93.00%	5.671%
12	15.715	15.648	15.775	BB	442423	5861152	90.99%	5.548%
13	16.664	16.598	16.728	BB	439005	5768706	89.55%	5.461%
14	17.551	17.491	17.608	BB	410276	5827258	90.46%	5.516%
15	18.381	18.315	18.445	BB	395852	5765342	89.50%	5.457%
16	19.163	19.121	19.221	BB	404106	5668029	87.99%	5.365%
17	19.902	19.851	19.968	BB	380790	5431820	84.32%	5.142%
18	20.616	20.551	20.675	BB	316762	5265474	81.74%	4.984%
19	21.470	21.391	21.555	BB	222869	5078129	78.83%	4.807%
			Sum of corrected areas:			105643198		

Aliphatic EPH 021125.M Sat Mar 01 01:23:32 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	8441841	58.989 ug/ml
Spiked Amount	50.000		Recovery =	117.98%
6) S	2-Flurobiphenyl (SURR)	8.203	5467908	62.198 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	124.40%
11) S	ortho-Terphenyl (SURR)	11.234	5392113	33.331 ug/ml
Spiked Amount	50.000		Recovery =	66.66%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	7161833	44.971 ug/ml
2) T	Naphthalene (C11.7)	5.693	7880512	49.629 ug/ml
3) T	2-Methylnaphthalene (...	6.739	7723846	49.609 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	9044713	55.624 ug/ml
7) T	Acenaphthene (C15.5)	8.300	9678387	58.832 ug/ml
8) T	Flouorene (C16.55)	9.079	9845850	62.454 ug/ml
9) T	Phenanthrene (C19.36)	10.468	10158364	67.407 ug/ml
10) T	Anthracene (C19.43)	10.543	10371977	68.676 ug/ml
12) T	Fluoranthene (C21.85)	12.273	10603708	68.715 ug/ml
13) T	Pyrene (C20.8)	12.566	10302701	66.875 ug/ml
14) T	Benzo[a]anthracene (C...	14.438	9819357	74.734 ug/ml
15) T	Chrysene (C27.41)	14.480	9593320	59.333 ug/ml
16) T	benzo[b]fluoranthene ...	15.988	9767406	70.987 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	9783217	61.942 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.364	9405556	69.293 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	9336608	85.440 ug/ml
20) T	Dibenz[a,h]anthracene...	17.769	9340051	60.204 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.986	9206882	63.517 ug/ml

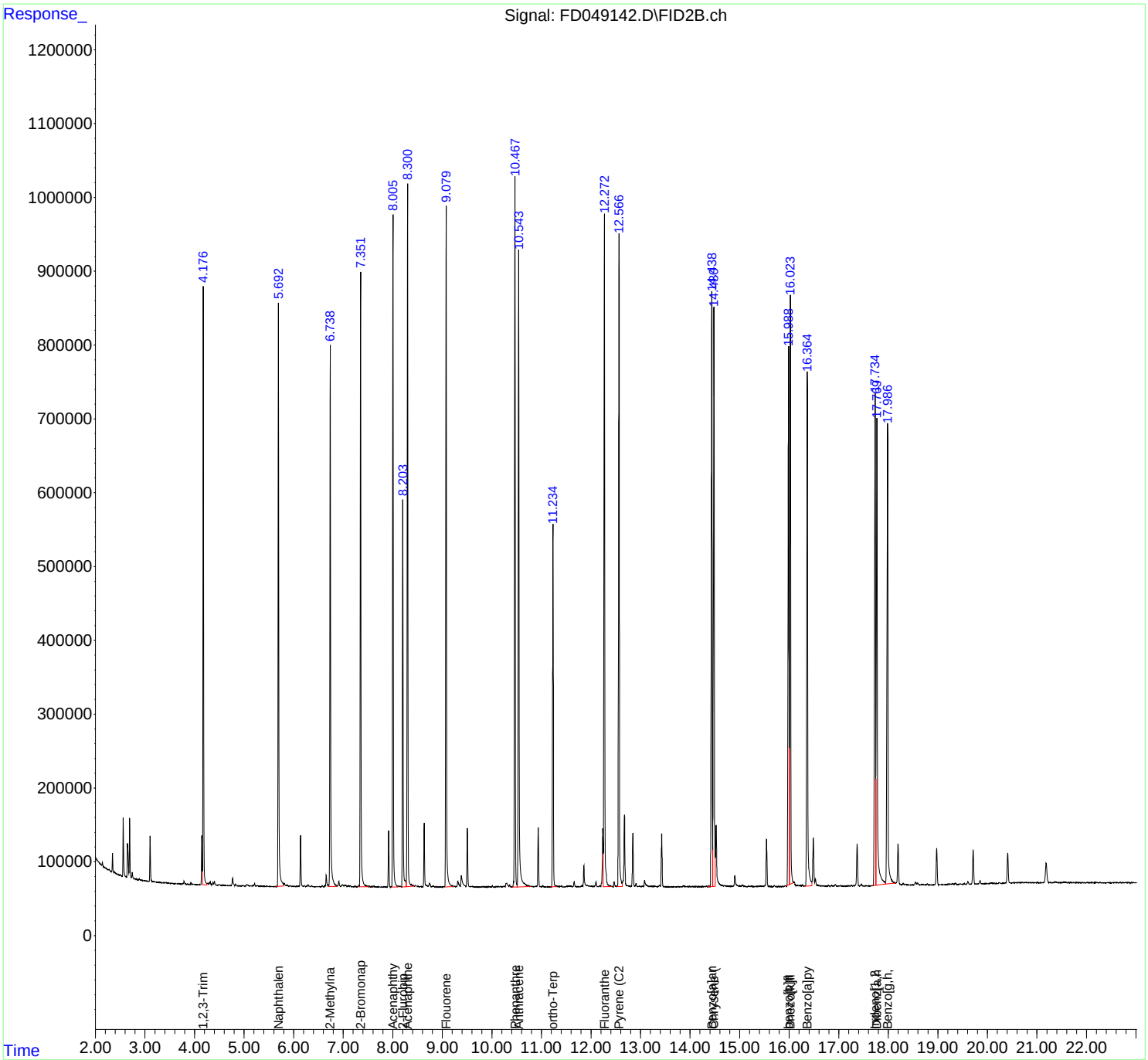
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.051	4.042	4.074	BV	200	1949	0.02%	0.001%
2	4.097	4.086	4.101	VV	287	1757	0.02%	0.001%
3	4.106	4.101	4.125	VV	245	2635	0.02%	0.001%
4	4.147	4.125	4.159	VV	66954	606704	5.69%	0.288%
5	4.176	4.159	4.249	VV	809194	7172085	67.25%	3.409%
6	4.264	4.249	4.283	VV	2629	44609	0.42%	0.021%
7	4.316	4.283	4.355	VV	4818	102157	0.96%	0.049%
8	4.372	4.355	4.386	VV	3899	44061	0.41%	0.021%
9	4.402	4.386	4.451	VV	5595	77864	0.73%	0.037%
10	4.461	4.451	4.466	VV	476	3666	0.03%	0.002%
11	4.473	4.466	4.479	VV	549	3174	0.03%	0.002%
12	4.489	4.479	4.505	VV	815	9833	0.09%	0.005%
13	4.515	4.505	4.537	VV	940	10614	0.10%	0.005%
14	4.544	4.537	4.550	VV	343	2200	0.02%	0.001%
15	4.554	4.550	4.570	VV	319	3383	0.03%	0.002%
16	4.582	4.570	4.596	VV	709	7747	0.07%	0.004%
17	4.601	4.596	4.629	VV	492	6562	0.06%	0.003%
18	4.632	4.629	4.644	VV	227	1270	0.01%	0.001%
19	4.689	4.644	4.704	PV	686	10067	0.09%	0.005%
20	4.708	4.704	4.724	VV	421	4004	0.04%	0.002%
21	4.769	4.724	4.814	VV	10740	161309	1.51%	0.077%
22	4.828	4.814	4.879	VV	2485	35628	0.33%	0.017%
23	4.884	4.879	4.893	VV	296	1516	0.01%	0.001%
24	4.902	4.893	4.918	VV	372	3335	0.03%	0.002%
25	4.933	4.918	4.947	VV	401	4801	0.05%	0.002%
26	4.966	4.947	5.015	VV	658	12165	0.11%	0.006%
27	5.048	5.015	5.110	VV	1751	54701	0.51%	0.026%
28	5.118	5.110	5.124	VV	639	5121	0.05%	0.002%
29	5.137	5.124	5.159	VV	830	11050	0.10%	0.005%
30	5.178	5.159	5.195	VV	1661	23212	0.22%	0.011%
31	5.211	5.195	5.254	VV	3925	52356	0.49%	0.025%
32	5.270	5.254	5.324	VV	1122	20499	0.19%	0.010%
33	5.337	5.324	5.349	VV	519	6461	0.06%	0.003%
34	5.353	5.349	5.376	VV	487	4742	0.04%	0.002%
35	5.383	5.376	5.392	VV	292	1658	0.02%	0.001%
36	5.416	5.407	5.422	VV	300	1542	0.01%	0.001%

rteres

37	5.459	5.442	5.504	VV	623	9027	0.08%	0.004%
38	5.518	5.504	5.538	PV	410	5182	0.05%	0.002%
39	5.549	5.538	5.559	VV	189	1550	0.01%	0.001%
40	5.565	5.559	5.603	PV	240	3982	0.04%	0.002%
41	5.612	5.603	5.619	VV	211	1351	0.01%	0.001%
42	5.631	5.624	5.642	VV	181	1272	0.01%	0.001%
43	5.693	5.668	5.797	VV	793145	7931134	74.36%	3.770%
44	5.811	5.797	5.854	VV	4295	93483	0.88%	0.044%
45	5.869	5.854	5.909	VV	2478	48819	0.46%	0.023%
46	5.935	5.909	5.989	VV	1373	40532	0.38%	0.019%
47	6.002	5.989	6.017	VV	597	7544	0.07%	0.004%
48	6.023	6.017	6.045	VV	453	5914	0.06%	0.003%
49	6.063	6.045	6.105	VV	735	19006	0.18%	0.009%
50	6.112	6.105	6.117	VV	542	3388	0.03%	0.002%
51	6.140	6.117	6.200	VV	69527	744439	6.98%	0.354%
52	6.221	6.200	6.242	VV	1744	23671	0.22%	0.011%
53	6.261	6.242	6.275	VV	1241	13623	0.13%	0.006%
54	6.291	6.275	6.310	VV	3148	36237	0.34%	0.017%
55	6.322	6.310	6.345	VV	898	11995	0.11%	0.006%
56	6.362	6.345	6.392	VV	1662	18852	0.18%	0.009%
57	6.399	6.392	6.407	VV	246	1640	0.02%	0.001%
58	6.412	6.407	6.436	VV	249	2069	0.02%	0.001%
59	6.471	6.436	6.494	PV	335	6665	0.06%	0.003%
60	6.506	6.494	6.510	VV	295	1869	0.02%	0.001%
61	6.515	6.510	6.539	VV	325	3837	0.04%	0.002%
62	6.577	6.547	6.601	VV	1688	20132	0.19%	0.010%
63	6.631	6.601	6.642	VV	1678	22082	0.21%	0.010%
64	6.658	6.642	6.694	VV	16123	203178	1.91%	0.097%
65	6.702	6.694	6.710	VV	2044	17501	0.16%	0.008%
66	6.739	6.710	6.873	VV	733466	7782063	72.97%	3.699%
67	6.879	6.873	6.886	VV	1511	11215	0.11%	0.005%
68	6.913	6.886	6.957	VV	8088	122141	1.15%	0.058%
69	6.989	6.957	7.010	VV	3353	71321	0.67%	0.034%
70	7.024	7.010	7.030	VV	2196	23196	0.22%	0.011%
71	7.041	7.030	7.052	VV	2222	26499	0.25%	0.013%
72	7.059	7.052	7.081	VV	2270	28270	0.27%	0.013%
73	7.088	7.081	7.094	VV	1071	6659	0.06%	0.003%
74	7.115	7.094	7.132	VV	1781	27765	0.26%	0.013%
75	7.145	7.132	7.170	VV	1979	26742	0.25%	0.013%
76	7.174	7.170	7.180	VV	411	2111	0.02%	0.001%
77	7.185	7.180	7.209	VV	561	6818	0.06%	0.003%
78	7.230	7.209	7.247	VV	1002	14943	0.14%	0.007%
79	7.253	7.247	7.292	VV	587	10829	0.10%	0.005%
80	7.315	7.292	7.327	VV	2494	27722	0.26%	0.013%
81	7.352	7.327	7.477	VV	832219	8468199	79.40%	4.025%
82	7.480	7.477	7.497	VV	1490	15443	0.14%	0.007%
83	7.510	7.497	7.530	VV	1172	19450	0.18%	0.009%
84	7.538	7.530	7.562	VV	805	12286	0.12%	0.006%
85	7.579	7.562	7.604	VV	862	14891	0.14%	0.007%
86	7.623	7.604	7.649	VV	1713	22247	0.21%	0.011%
87	7.656	7.649	7.665	VV	377	2873	0.03%	0.001%
88	7.677	7.665	7.692	VV	562	5658	0.05%	0.003%
89	7.710	7.692	7.737	VV	743	11487	0.11%	0.005%

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90	7.747	7.737	7.770	VV	346	4571	0.04%	0.002%
91	7.775	7.770	7.794	VV	370	2870	0.03%	0.001%
92	7.830	7.794	7.841	PV	493	7795	0.07%	0.004%
93	7.845	7.841	7.849	VV	322	1291	0.01%	0.001%
94	7.853	7.849	7.866	VV	272	2010	0.02%	0.001%
95	7.874	7.866	7.890	VV	319	2466	0.02%	0.001%
96	7.918	7.890	7.966	VV	76664	801713	7.52%	0.381%
97	7.972	7.966	7.978	VV	522	2714	0.03%	0.001%
98	8.005	7.978	8.095	VV	911037	9055813	84.91%	4.304%
99	8.114	8.095	8.133	VV	1822	31019	0.29%	0.015%
100	8.147	8.133	8.173	VV	1454	22842	0.21%	0.011%
101	8.203	8.173	8.272	VV	526994	5494210	51.51%	2.612%
102	8.300	8.272	8.367	VV	953439	9682877	90.79%	4.603%
103	8.375	8.367	8.398	VV	3452	54189	0.51%	0.026%
104	8.409	8.398	8.421	VV	2278	28942	0.27%	0.014%
105	8.426	8.421	8.439	VV	2045	19416	0.18%	0.009%
106	8.458	8.439	8.498	VV	2637	62203	0.58%	0.030%
107	8.514	8.498	8.545	VV	1431	24037	0.23%	0.011%
108	8.569	8.545	8.600	VV	1240	25005	0.23%	0.012%
109	8.635	8.600	8.713	VV	86818	934105	8.76%	0.444%
110	8.746	8.713	8.787	VV	5720	112882	1.06%	0.054%
111	8.820	8.787	8.850	VV	1900	37177	0.35%	0.018%
112	8.870	8.850	8.901	VV	879	12718	0.12%	0.006%
113	8.945	8.901	8.952	VV	570	10933	0.10%	0.005%
114	8.957	8.952	8.962	VV	501	2561	0.02%	0.001%
115	8.977	8.962	8.993	VV	555	6632	0.06%	0.003%
116	9.018	8.993	9.030	PV	873	10350	0.10%	0.005%
117	9.033	9.030	9.052	VV	664	6407	0.06%	0.003%
118	9.079	9.052	9.218	VV	919552	9905080	92.87%	4.708%
119	9.238	9.218	9.257	VV	1598	29835	0.28%	0.014%
120	9.262	9.257	9.274	VV	878	7981	0.07%	0.004%
121	9.314	9.274	9.369	VV	8290	185349	1.74%	0.088%
122	9.385	9.369	9.480	VV	15834	371651	3.48%	0.177%
123	9.506	9.480	9.558	VV	79885	884992	8.30%	0.421%
124	9.592	9.558	9.635	VV	994	34197	0.32%	0.016%
125	9.655	9.635	9.670	VV	484	7859	0.07%	0.004%
126	9.686	9.670	9.714	VV	420	6043	0.06%	0.003%
127	9.762	9.714	9.769	PV	438	4785	0.04%	0.002%
128	9.777	9.769	9.790	VV	456	4352	0.04%	0.002%
129	9.822	9.790	9.843	VV	1018	17425	0.16%	0.008%
130	9.858	9.843	9.867	VV	473	5264	0.05%	0.003%
131	9.882	9.867	9.888	VV	601	6706	0.06%	0.003%
132	9.894	9.888	9.919	VV	854	11228	0.11%	0.005%
133	9.934	9.919	9.957	VV	927	14006	0.13%	0.007%
134	9.967	9.957	9.974	VV	591	4945	0.05%	0.002%
135	9.978	9.974	9.990	VV	561	4749	0.04%	0.002%
136	10.010	9.990	10.042	VV	1696	22351	0.21%	0.011%
137	10.051	10.042	10.057	VV	344	1640	0.02%	0.001%
138	10.101	10.057	10.114	VV	1033	17019	0.16%	0.008%
139	10.131	10.114	10.157	VV	859	14601	0.14%	0.007%
140	10.182	10.157	10.204	VV	920	16808	0.16%	0.008%
141	10.237	10.204	10.248	VV	1208	19381	0.18%	0.009%

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142	10.253	10.248	10.271	VV	1291	12598	0.12%	0.006%
143	10.288	10.271	10.297	VV	5325	57446	0.54%	0.027%
144	10.301	10.297	10.344	VV	5071	85103	0.80%	0.040%
145	10.363	10.344	10.394	VV	2702	42527	0.40%	0.020%
146	10.402	10.394	10.415	VV	453	4799	0.04%	0.002%
147	10.468	10.415	10.513	VV	959109	10175341	95.41%	4.837%
148	10.543	10.513	10.650	VV	865227	10276064	96.35%	4.884%
149	10.655	10.650	10.783	VV	5325	192747	1.81%	0.092%
150	10.801	10.783	10.808	VV	960	13324	0.12%	0.006%
151	10.815	10.808	10.840	VV	921	14729	0.14%	0.007%
152	10.846	10.840	10.853	VV	680	4871	0.05%	0.002%
153	10.874	10.853	10.888	VV	1240	21058	0.20%	0.010%
154	10.892	10.888	10.906	VV	1241	12913	0.12%	0.006%
155	10.937	10.906	10.978	VV	80624	916417	8.59%	0.436%
156	10.987	10.978	10.995	VV	935	8441	0.08%	0.004%
157	11.027	10.995	11.055	VV	1374	32725	0.31%	0.016%
158	11.061	11.055	11.082	VV	517	6492	0.06%	0.003%
159	11.084	11.082	11.089	VV	468	1545	0.01%	0.001%
160	11.091	11.089	11.097	VV	452	1825	0.02%	0.001%
161	11.101	11.097	11.105	VV	283	1124	0.01%	0.001%
162	11.122	11.105	11.127	VV	450	3943	0.04%	0.002%
163	11.146	11.127	11.152	VV	468	5580	0.05%	0.003%
164	11.157	11.152	11.202	VV	450	5023	0.05%	0.002%
165	11.234	11.202	11.308	PV	491209	5436431	50.97%	2.584%
166	11.320	11.308	11.335	VV	1361	18120	0.17%	0.009%
167	11.338	11.335	11.363	VV	856	12192	0.11%	0.006%
168	11.375	11.363	11.385	VV	1117	11249	0.11%	0.005%
169	11.407	11.385	11.444	VV	1757	28183	0.26%	0.013%
170	11.461	11.444	11.481	VV	369	5860	0.05%	0.003%
171	11.510	11.481	11.522	VV	1254	22960	0.22%	0.011%
172	11.532	11.522	11.549	VV	1360	17580	0.16%	0.008%
173	11.561	11.549	11.577	VV	1365	19769	0.19%	0.009%
174	11.593	11.577	11.615	VV	1474	25919	0.24%	0.012%
175	11.618	11.615	11.625	VV	818	4558	0.04%	0.002%
176	11.629	11.625	11.635	VV	904	4702	0.04%	0.002%
177	11.662	11.635	11.696	VV	7388	104342	0.98%	0.050%
178	11.702	11.696	11.718	VV	752	7375	0.07%	0.004%
179	11.737	11.718	11.750	VV	887	14523	0.14%	0.007%
180	11.760	11.750	11.775	VV	894	9693	0.09%	0.005%
181	11.815	11.775	11.836	VV	2082	42497	0.40%	0.020%
182	11.857	11.836	11.923	VV	28885	405403	3.80%	0.193%
183	11.932	11.923	11.959	VV	1958	32662	0.31%	0.016%
184	11.976	11.959	11.993	VV	1482	25899	0.24%	0.012%
185	12.015	11.993	12.040	VV	1390	29080	0.27%	0.014%
186	12.103	12.040	12.135	VV	7321	134707	1.26%	0.064%
187	12.144	12.135	12.158	VV	828	9196	0.09%	0.004%
188	12.178	12.158	12.197	VV	2181	30313	0.28%	0.014%
189	12.239	12.197	12.248	VV	79220	875296	8.21%	0.416%
190	12.273	12.248	12.427	VV	912682	10665336	100.00%	5.070%
191	12.436	12.427	12.450	VV	817	9715	0.09%	0.005%
192	12.467	12.450	12.507	VV	7234	99938	0.94%	0.048%
193	12.513	12.507	12.527	VV	893	8905	0.08%	0.004%
194	12.566	12.527	12.630	VV	887669	10352709	97.07%	4.921%

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195	12.647	12.630	12.651	VV	8220	86525	0.81%	0.041%
196	12.676	12.651	12.724	VV	97675	1268327	11.89%	0.603%
197	12.726	12.724	12.778	VV	2129	48686	0.46%	0.023%
198	12.783	12.778	12.791	VV	1161	8032	0.08%	0.004%
199	12.801	12.791	12.807	VV	988	8990	0.08%	0.004%
200	12.812	12.807	12.817	VV	948	5699	0.05%	0.003%
201	12.846	12.817	12.887	VV	72685	878950	8.24%	0.418%
202	12.910	12.887	12.944	VV	4655	74190	0.70%	0.035%
203	12.965	12.944	12.972	VV	860	12682	0.12%	0.006%
204	12.989	12.972	13.017	VV	921	20436	0.19%	0.010%
205	13.038	13.017	13.065	VV	1218	27663	0.26%	0.013%
206	13.084	13.065	13.170	VV	9050	195629	1.83%	0.093%
207	13.175	13.170	13.193	VV	1156	13485	0.13%	0.006%
208	13.200	13.193	13.210	VV	910	8136	0.08%	0.004%
209	13.224	13.210	13.229	VV	909	8915	0.08%	0.004%
210	13.235	13.229	13.243	VV	806	6098	0.06%	0.003%
211	13.262	13.243	13.284	VV	975	20576	0.19%	0.010%
212	13.296	13.284	13.324	VV	1002	17856	0.17%	0.008%
213	13.327	13.324	13.349	VV	652	8655	0.08%	0.004%
214	13.384	13.349	13.402	VV	2352	44085	0.41%	0.021%
215	13.428	13.402	13.475	VV	71602	872259	8.18%	0.415%
216	13.479	13.475	13.482	VV	640	2234	0.02%	0.001%
217	13.487	13.482	13.512	VV	631	7759	0.07%	0.004%
218	13.535	13.512	13.544	VV	483	5924	0.06%	0.003%
219	13.548	13.544	13.577	VV	297	4546	0.04%	0.002%
220	13.580	13.577	13.594	VV	195	1378	0.01%	0.001%
221	13.597	13.594	13.617	VV	126	1127	0.01%	0.001%
222	13.621	13.617	13.636	PV	156	1184	0.01%	0.001%
223	13.642	13.636	13.655	VV	295	2314	0.02%	0.001%
224	13.657	13.655	13.667	VV	320	1227	0.01%	0.001%
225	13.688	13.667	13.707	VV	385	6584	0.06%	0.003%
226	13.713	13.707	13.720	VV	375	2065	0.02%	0.001%
227	13.760	13.720	13.776	VV	463	9273	0.09%	0.004%
228	13.788	13.776	13.796	VV	381	2968	0.03%	0.001%
229	13.801	13.796	13.807	VV	365	1749	0.02%	0.001%
230	13.811	13.807	13.815	VV	367	1539	0.01%	0.001%
231	13.826	13.815	13.837	VV	587	6565	0.06%	0.003%
232	13.869	13.837	13.902	VV	1878	36177	0.34%	0.017%
233	13.908	13.902	13.915	VV	485	3250	0.03%	0.002%
234	13.919	13.915	13.934	VV	438	3758	0.04%	0.002%
235	13.940	13.934	14.012	VV	382	17155	0.16%	0.008%
236	14.033	14.012	14.052	VV	432	7333	0.07%	0.003%
237	14.067	14.052	14.078	VV	447	5509	0.05%	0.003%
238	14.085	14.078	14.105	VV	619	7334	0.07%	0.003%
239	14.111	14.105	14.117	VV	559	3365	0.03%	0.002%
240	14.132	14.117	14.137	VV	690	6708	0.06%	0.003%
241	14.156	14.137	14.164	VV	674	8016	0.08%	0.004%
242	14.167	14.164	14.173	VV	406	1856	0.02%	0.001%
243	14.194	14.173	14.214	VV	474	9586	0.09%	0.005%
244	14.222	14.214	14.229	VV	520	3538	0.03%	0.002%
245	14.235	14.229	14.239	VV	416	2379	0.02%	0.001%
246	14.243	14.239	14.262	VV	488	4644	0.04%	0.002%

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247	14.287	14.262	14.294	VV	690	8547	0.08%	0.004%
248	14.300	14.294	14.309	VV	727	5752	0.05%	0.003%
249	14.315	14.309	14.321	VV	704	4011	0.04%	0.002%
250	14.326	14.321	14.332	VV	663	3639	0.03%	0.002%
251	14.338	14.332	14.359	VV	805	7951	0.07%	0.004%
252	14.374	14.359	14.379	VV	710	6675	0.06%	0.003%
253	14.382	14.379	14.402	VV	625	6411	0.06%	0.003%
254	14.438	14.402	14.456	VV	807419	9837573	92.24%	4.676%
255	14.480	14.456	14.507	VV	786236	9615926	90.16%	4.571%
256	14.525	14.507	14.674	VV	83192	1533940	14.38%	0.729%
257	14.698	14.674	14.727	VV	1824	47432	0.44%	0.023%
258	14.738	14.727	14.770	VV	1205	24157	0.23%	0.011%
259	14.773	14.770	14.790	VV	780	8300	0.08%	0.004%
260	14.807	14.790	14.817	VV	777	10555	0.10%	0.005%
261	14.834	14.817	14.843	VV	972	10798	0.10%	0.005%
262	14.849	14.843	14.863	VV	677	7364	0.07%	0.004%
263	14.903	14.863	14.970	VV	15235	283632	2.66%	0.135%
264	14.976	14.970	14.982	VV	1372	9086	0.09%	0.004%
265	14.990	14.982	15.016	VV	1529	22470	0.21%	0.011%
266	15.029	15.016	15.035	VV	942	9881	0.09%	0.005%
267	15.060	15.035	15.090	VV	2621	46533	0.44%	0.022%
268	15.105	15.090	15.122	VV	761	10668	0.10%	0.005%
269	15.125	15.122	15.156	VV	516	8200	0.08%	0.004%
270	15.169	15.156	15.175	VV	577	5206	0.05%	0.002%
271	15.178	15.175	15.202	VV	550	7725	0.07%	0.004%
272	15.208	15.202	15.214	VV	633	3812	0.04%	0.002%
273	15.242	15.214	15.257	VV	1191	20756	0.19%	0.010%
274	15.261	15.257	15.288	VV	705	8332	0.08%	0.004%
275	15.293	15.288	15.297	VV	285	1513	0.01%	0.001%
276	15.302	15.297	15.309	VV	502	2774	0.03%	0.001%
277	15.312	15.309	15.320	VV	416	2600	0.02%	0.001%
278	15.345	15.320	15.350	VV	781	10605	0.10%	0.005%
279	15.361	15.350	15.374	VV	760	9347	0.09%	0.004%
280	15.390	15.374	15.408	VV	821	13919	0.13%	0.007%
281	15.422	15.408	15.431	VV	867	10107	0.09%	0.005%
282	15.446	15.431	15.469	VV	885	16564	0.16%	0.008%
283	15.474	15.469	15.482	VV	578	4088	0.04%	0.002%
284	15.503	15.482	15.512	VV	1721	21554	0.20%	0.010%
285	15.542	15.512	15.578	VV	64394	815203	7.64%	0.387%
286	15.583	15.578	15.630	VV	917	17000	0.16%	0.008%
287	15.636	15.630	15.659	VV	238	2610	0.02%	0.001%
288	15.699	15.659	15.732	VV	1871	29386	0.28%	0.014%
289	15.737	15.732	15.742	VV	408	1762	0.02%	0.001%
290	15.749	15.742	15.784	VV	323	5502	0.05%	0.003%
291	15.794	15.784	15.799	VV	327	1956	0.02%	0.001%
292	15.806	15.799	15.834	VV	274	4040	0.04%	0.002%
293	15.854	15.834	15.867	VV	309	4156	0.04%	0.002%
294	15.915	15.878	15.950	PV	1664	34194	0.32%	0.016%
295	15.988	15.950	16.002	VV	733411	9839949	92.26%	4.677%
296	16.023	16.002	16.085	VV	801622	9987928	93.65%	4.748%
297	16.100	16.085	16.175	VV	6478	164447	1.54%	0.078%
298	16.209	16.175	16.220	VV	1580	39604	0.37%	0.019%
299	16.225	16.220	16.248	VV	1650	21318	0.20%	0.010%

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300	16.266	16.248	16.305	VV	2789	48714	0.46%	0.023%
301	16.312	16.305	16.325	VV	797	8447	0.08%	0.004%
302	16.364	16.325	16.457	VV	699804	9463870	88.73%	4.498%
303	16.485	16.457	16.512	VV	65754	958399	8.99%	0.456%
304	16.528	16.512	16.587	VV	10279	190737	1.79%	0.091%
305	16.590	16.587	16.630	VV	1305	23976	0.22%	0.011%
306	16.651	16.630	16.680	VV	986	21212	0.20%	0.010%
307	16.687	16.680	16.699	VV	651	6350	0.06%	0.003%
308	16.704	16.699	16.719	VV	793	7174	0.07%	0.003%
309	16.723	16.719	16.734	VV	417	3260	0.03%	0.002%
310	16.739	16.734	16.750	VV	392	3204	0.03%	0.002%
311	16.795	16.750	16.817	VV	1419	26779	0.25%	0.013%
312	16.822	16.817	16.829	VV	368	2250	0.02%	0.001%
313	16.856	16.829	16.890	VV	1073	24292	0.23%	0.012%
314	16.935	16.890	16.968	VV	2429	46569	0.44%	0.022%
315	16.975	16.968	16.989	VV	494	4292	0.04%	0.002%
316	16.991	16.989	16.998	VV	435	2048	0.02%	0.001%
317	17.025	16.998	17.052	VV	709	14835	0.14%	0.007%
318	17.064	17.052	17.077	VV	564	5942	0.06%	0.003%
319	17.082	17.077	17.135	VV	371	8045	0.08%	0.004%
320	17.175	17.135	17.200	VV	570	14076	0.13%	0.007%
321	17.218	17.200	17.227	VV	497	6399	0.06%	0.003%
322	17.232	17.227	17.237	VV	561	2755	0.03%	0.001%
323	17.257	17.237	17.285	VV	1124	19989	0.19%	0.010%
324	17.298	17.285	17.305	VV	671	6128	0.06%	0.003%
325	17.370	17.305	17.421	VV	57411	810224	7.60%	0.385%
326	17.426	17.421	17.432	VV	378	2214	0.02%	0.001%
327	17.456	17.432	17.486	VV	2731	41462	0.39%	0.020%
328	17.493	17.486	17.508	VV	465	5265	0.05%	0.003%
329	17.517	17.508	17.522	VV	461	3206	0.03%	0.002%
330	17.528	17.522	17.542	VV	408	4093	0.04%	0.002%
331	17.569	17.542	17.594	VV	464	9621	0.09%	0.005%
332	17.620	17.594	17.627	PV	226	3085	0.03%	0.001%
333	17.634	17.627	17.642	VV	131	1265	0.01%	0.001%
334	17.660	17.642	17.677	VV	626	7186	0.07%	0.003%
335	17.734	17.677	17.747	VV	669070	9359859	87.76%	4.449%
336	17.769	17.747	17.944	VV	632255	9475979	88.85%	4.504%
337	17.986	17.944	18.152	VV	628212	9464386	88.74%	4.499%
338	18.195	18.152	18.238	VV	55558	816334	7.65%	0.388%
339	18.241	18.238	18.280	VV	751	9095	0.09%	0.004%

Sum of corrected areas: 210382375

Aromatic EPH 021125.M Sat Mar 01 04:01:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.839	3447568	30.652 ug/ml
Spiked Amount	50.000		Recovery =	61.30%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3952679	28.098 ug/ml
2) T	n-Decane (C10)	4.262	4756204	33.572 ug/ml
4) T	n-Dodecane (C12)	6.270	5217892	37.070 ug/ml
6) T	n-Tetradecane (C14)	8.059	5826405	42.733 ug/ml
7) T	n-Hexadecane (C16)	9.655	6354609	46.396 ug/ml
8) T	n-Octadecane (C18)	11.093	6605667	48.302 ug/ml
10) T	n-Eicosane (C20)	12.400	6724652	51.614 ug/ml
11) T	n-Heneicosane (C21)	13.010	6406807	50.113 ug/ml
13) T	n-Docosane (C22)	13.596	6355786	50.432 ug/ml
14) T	n-Tetracosane (C24)	14.697	6236779	50.144 ug/ml
15) T	n-Hexacosane (C26)	15.715	6107881	50.232 ug/ml
16) T	n-Octacosane (C28)	16.664	5953830	50.130 ug/ml
17) T	n-Tricontane (C30)	17.551	5974819	49.639 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5932634	51.114 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5900054	54.600 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5653625	58.789 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5491943	61.091 ug/ml
22) T	n-Tetracontane (C40)	21.472	5316432	61.447 ug/ml

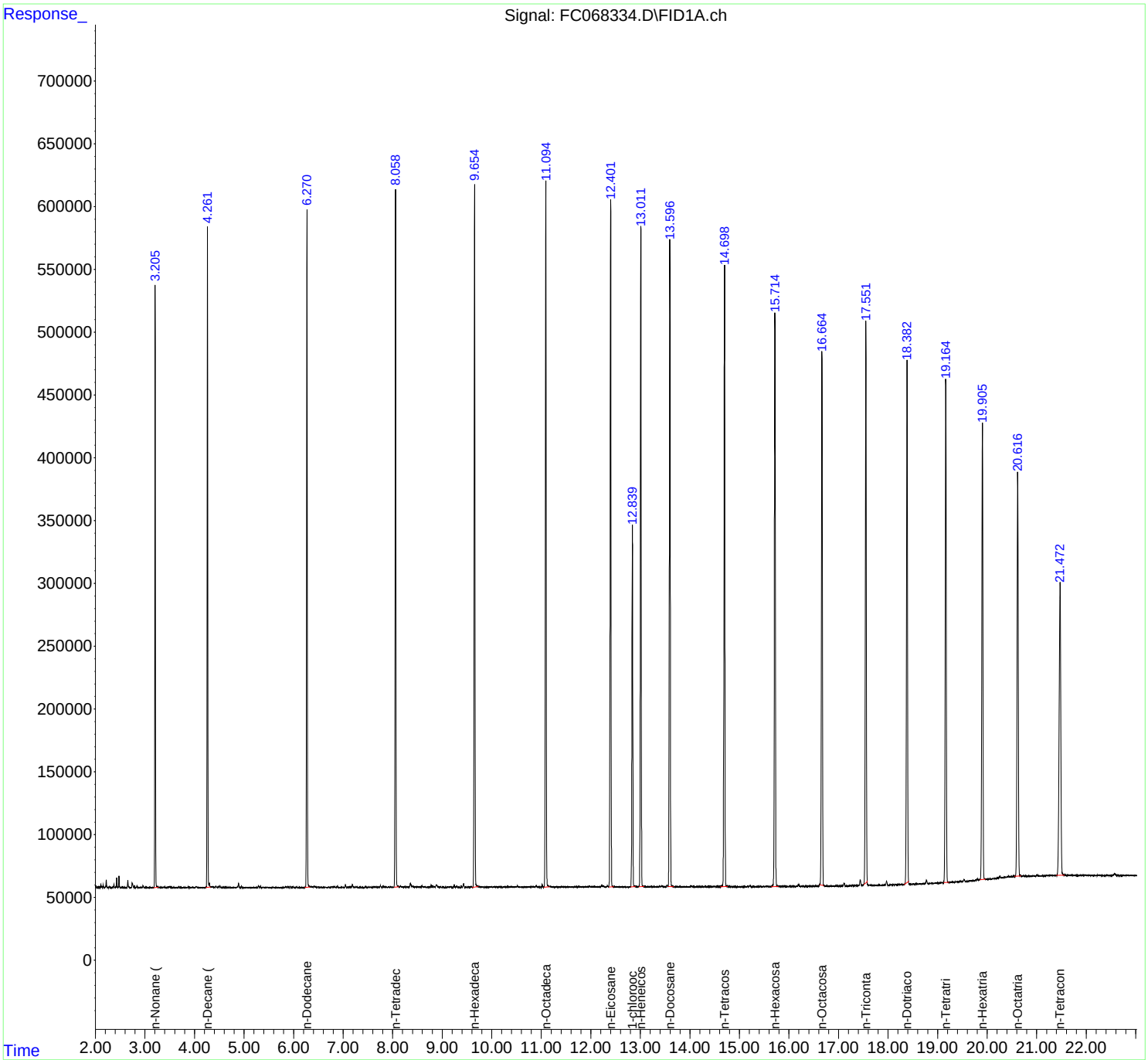
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.373	2.304	2.402	BV	2444	20177	0.30%	0.018%
2	2.430	2.402	2.454	PV	7767	67001	0.99%	0.059%
3	2.475	2.454	2.535	VV	9285	76863	1.14%	0.067%
4	2.556	2.535	2.578	VV	360	5078	0.08%	0.004%
5	2.588	2.578	2.626	VV	234	3484	0.05%	0.003%
6	2.654	2.626	2.721	PV	5970	55320	0.82%	0.048%
7	2.743	2.721	2.771	VV	3718	52504	0.78%	0.046%
8	2.786	2.771	2.820	VV	1524	17198	0.25%	0.015%
9	2.839	2.820	2.900	VV	1638	20171	0.30%	0.018%
10	2.917	2.900	2.943	VV	340	4970	0.07%	0.004%
11	2.961	2.943	2.993	VV	1652	15512	0.23%	0.014%
12	3.031	2.993	3.044	VV	298	5350	0.08%	0.005%
13	3.054	3.044	3.071	VV	147	1723	0.03%	0.002%
14	3.095	3.071	3.122	VV	221	3824	0.06%	0.003%
15	3.205	3.122	3.314	VV	476570	3974917	58.90%	3.482%
16	3.324	3.314	3.364	VV	381	7654	0.11%	0.007%
17	3.378	3.364	3.424	VV	331	9181	0.14%	0.008%
18	3.437	3.424	3.454	VV	241	3497	0.05%	0.003%
19	3.501	3.454	3.553	VV	659	21613	0.32%	0.019%
20	3.568	3.553	3.604	VV	260	4949	0.07%	0.004%
21	3.611	3.604	3.655	VV	176	3352	0.05%	0.003%
22	3.692	3.655	3.752	VV	421	11227	0.17%	0.010%
23	3.775	3.752	3.827	VV	350	7232	0.11%	0.006%
24	3.865	3.827	3.878	VV	588	8521	0.13%	0.007%
25	3.893	3.878	3.948	VV	975	13495	0.20%	0.012%
26	3.961	3.948	3.993	VV	284	4929	0.07%	0.004%
27	4.037	3.993	4.145	VV	944	27567	0.41%	0.024%
28	4.178	4.145	4.204	VV	296	6175	0.09%	0.005%
29	4.211	4.204	4.231	VV	230	2907	0.04%	0.003%
30	4.262	4.231	4.289	VV	524353	4734902	70.17%	4.148%
31	4.300	4.289	4.347	VV	3746	50768	0.75%	0.044%
32	4.364	4.347	4.390	VV	730	14752	0.22%	0.013%
33	4.428	4.390	4.448	VV	1240	21435	0.32%	0.019%
34	4.459	4.448	4.467	VV	425	4469	0.07%	0.004%
35	4.483	4.467	4.497	VV	955	11206	0.17%	0.010%
36	4.513	4.497	4.578	VV	1798	24455	0.36%	0.021%

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37	4.630	4.578	4.689	VV	247	12114	0.18%	0.011%
38	4.724	4.689	4.780	VV	273	7087	0.11%	0.006%
39	4.810	4.780	4.844	VV	250	4638	0.07%	0.004%
40	4.890	4.844	4.921	VV	3471	45773	0.68%	0.040%
41	4.946	4.921	4.962	VV	719	8954	0.13%	0.008%
42	4.973	4.962	5.018	VV	275	4329	0.06%	0.004%
43	5.081	5.018	5.101	PV	175	4452	0.07%	0.004%
44	5.115	5.101	5.153	VV	129	3282	0.05%	0.003%
45	5.163	5.153	5.223	VV	189	3688	0.05%	0.003%
46	5.258	5.223	5.269	VV	162	2711	0.04%	0.002%
47	5.292	5.269	5.312	VV	1773	19244	0.29%	0.017%
48	5.332	5.312	5.357	VV	1339	15550	0.23%	0.014%
49	5.387	5.357	5.434	VV	309	5489	0.08%	0.005%
50	5.469	5.434	5.495	VV	356	6323	0.09%	0.006%
51	5.508	5.495	5.529	VV	125	1637	0.02%	0.001%
52	5.539	5.529	5.553	VV	148	1273	0.02%	0.001%
53	5.582	5.553	5.613	VV	280	5783	0.09%	0.005%
54	5.640	5.613	5.684	VV	173	4197	0.06%	0.004%
55	5.692	5.684	5.724	VV	99	1301	0.02%	0.001%
56	5.742	5.724	5.763	PV	204	2404	0.04%	0.002%
57	5.788	5.763	5.813	VV	186	3529	0.05%	0.003%
58	5.838	5.813	5.869	VV	890	16772	0.25%	0.015%
59	5.886	5.869	5.908	VV	542	8475	0.13%	0.007%
60	5.928	5.908	5.971	VV	1047	14951	0.22%	0.013%
61	5.991	5.971	6.029	VV	703	11596	0.17%	0.010%
62	6.064	6.029	6.086	VV	368	7588	0.11%	0.007%
63	6.115	6.086	6.132	VV	274	4178	0.06%	0.004%
64	6.164	6.132	6.228	VV	275	9391	0.14%	0.008%
65	6.270	6.228	6.334	VV	539912	5241953	77.68%	4.592%
66	6.351	6.334	6.374	VV	1068	17052	0.25%	0.015%
67	6.386	6.374	6.398	VV	676	7625	0.11%	0.007%
68	6.417	6.398	6.437	VV	1487	20059	0.30%	0.018%
69	6.450	6.437	6.471	VV	584	8181	0.12%	0.007%
70	6.489	6.471	6.538	VV	752	13429	0.20%	0.012%
71	6.552	6.538	6.568	VV	277	4003	0.06%	0.004%
72	6.587	6.568	6.611	VV	313	5879	0.09%	0.005%
73	6.622	6.611	6.641	VV	243	3682	0.05%	0.003%
74	6.655	6.641	6.684	VV	227	4481	0.07%	0.004%
75	6.708	6.684	6.736	VV	664	9075	0.13%	0.008%
76	6.762	6.736	6.796	VV	830	16423	0.24%	0.014%
77	6.824	6.796	6.854	VV	741	16164	0.24%	0.014%
78	6.887	6.854	6.914	VV	1061	19526	0.29%	0.017%
79	6.925	6.914	6.947	VV	306	4357	0.06%	0.004%
80	6.988	6.947	7.008	VV	329	7764	0.12%	0.007%
81	7.048	7.008	7.095	VV	2381	30341	0.45%	0.027%
82	7.108	7.095	7.138	VV	366	7191	0.11%	0.006%
83	7.155	7.138	7.167	VV	499	5849	0.09%	0.005%
84	7.188	7.167	7.213	VV	2579	30661	0.45%	0.027%
85	7.221	7.213	7.233	VV	260	2957	0.04%	0.003%
86	7.248	7.233	7.266	VV	418	6511	0.10%	0.006%
87	7.279	7.266	7.333	VV	619	10000	0.15%	0.009%
88	7.355	7.333	7.391	VV	242	6015	0.09%	0.005%
89	7.395	7.391	7.414	VV	190	1628	0.02%	0.001%

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90	7.448	7.414	7.478	VV	1037	13385	0.20%	0.012%
91	7.525	7.478	7.574	VV	321	11619	0.17%	0.010%
92	7.611	7.574	7.627	VV	353	8205	0.12%	0.007%
93	7.648	7.627	7.688	VV	402	10387	0.15%	0.009%
94	7.709	7.688	7.734	VV	486	7961	0.12%	0.007%
95	7.753	7.734	7.778	VV	1583	19335	0.29%	0.017%
96	7.809	7.778	7.834	VV	1594	21359	0.32%	0.019%
97	7.846	7.834	7.864	VV	354	4886	0.07%	0.004%
98	7.879	7.864	7.891	VV	423	4829	0.07%	0.004%
99	7.908	7.891	7.934	VV	361	6444	0.10%	0.006%
100	7.962	7.934	8.004	VV	856	13217	0.20%	0.012%
101	8.059	8.004	8.134	VV	554409	5855976	86.78%	5.130%
102	8.154	8.134	8.190	VV	891	22636	0.34%	0.020%
103	8.203	8.190	8.222	VV	574	8596	0.13%	0.008%
104	8.250	8.222	8.269	VV	624	10991	0.16%	0.010%
105	8.287	8.269	8.328	VV	613	10178	0.15%	0.009%
106	8.358	8.328	8.438	VV	3538	79437	1.18%	0.070%
107	8.449	8.438	8.464	VV	483	7244	0.11%	0.006%
108	8.474	8.464	8.488	VV	607	6830	0.10%	0.006%
109	8.516	8.488	8.531	VV	612	13038	0.19%	0.011%
110	8.544	8.531	8.558	VV	691	8906	0.13%	0.008%
111	8.592	8.558	8.631	VV	1119	27569	0.41%	0.024%
112	8.654	8.631	8.687	VV	452	9010	0.13%	0.008%
113	8.707	8.687	8.725	VV	426	6259	0.09%	0.005%
114	8.745	8.725	8.753	VV	313	3931	0.06%	0.003%
115	8.776	8.753	8.796	VV	1501	20657	0.31%	0.018%
116	8.812	8.796	8.825	VV	888	11876	0.18%	0.010%
117	8.833	8.825	8.854	VV	679	10088	0.15%	0.009%
118	8.887	8.854	8.943	VV	2096	46575	0.69%	0.041%
119	8.962	8.943	8.989	VV	596	8314	0.12%	0.007%
120	9.011	8.989	9.037	PV	415	5547	0.08%	0.005%
121	9.131	9.037	9.145	VV	387	13254	0.20%	0.012%
122	9.174	9.145	9.221	VV	781	15428	0.23%	0.014%
123	9.245	9.221	9.273	VV	1372	22829	0.34%	0.020%
124	9.294	9.273	9.322	VV	889	12552	0.19%	0.011%
125	9.334	9.322	9.354	VV	263	3002	0.04%	0.003%
126	9.388	9.354	9.408	VV	903	13561	0.20%	0.012%
127	9.432	9.408	9.473	VV	3048	36278	0.54%	0.032%
128	9.490	9.473	9.508	PV	253	2752	0.04%	0.002%
129	9.522	9.508	9.535	VV	181	2184	0.03%	0.002%
130	9.576	9.535	9.609	VV	648	15373	0.23%	0.013%
131	9.655	9.609	9.766	VV	558718	6394144	94.75%	5.602%
132	9.773	9.766	9.864	VV	389	14407	0.21%	0.013%
133	9.931	9.864	9.948	VV	308	7356	0.11%	0.006%
134	9.969	9.948	9.990	VV	302	6115	0.09%	0.005%
135	10.045	9.990	10.064	VV	472	12862	0.19%	0.011%
136	10.081	10.064	10.102	VV	363	6588	0.10%	0.006%
137	10.129	10.102	10.151	VV	338	6987	0.10%	0.006%
138	10.159	10.151	10.180	VV	290	3147	0.05%	0.003%
139	10.191	10.180	10.197	VV	128	1121	0.02%	0.001%
140	10.205	10.197	10.211	VV	152	1028	0.02%	0.001%
141	10.250	10.211	10.265	VV	389	7571	0.11%	0.007%

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142	10.275	10.265	10.303	VV	376	6423	0.10%	0.006%
143	10.322	10.303	10.348	VV	577	10901	0.16%	0.010%
144	10.391	10.348	10.423	VV	743	18152	0.27%	0.016%
145	10.443	10.423	10.458	VV	366	5798	0.09%	0.005%
146	10.476	10.458	10.488	VV	430	6016	0.09%	0.005%
147	10.515	10.488	10.548	VV	1041	19254	0.29%	0.017%
148	10.604	10.584	10.658	VV	273	7646	0.11%	0.007%
149	10.675	10.658	10.683	VV	257	2854	0.04%	0.003%
150	10.714	10.683	10.741	VV	436	9433	0.14%	0.008%
151	10.761	10.741	10.794	VV	411	9576	0.14%	0.008%
152	10.811	10.794	10.831	VV	557	8515	0.13%	0.007%
153	10.844	10.831	10.862	VV	342	3978	0.06%	0.003%
154	10.894	10.862	10.940	VV	1481	20511	0.30%	0.018%
155	10.947	10.940	10.978	VV	104	1539	0.02%	0.001%
156	11.021	10.978	11.054	VV	1735	24417	0.36%	0.021%
157	11.093	11.054	11.168	VV	565923	6625320	98.18%	5.804%
158	11.182	11.168	11.231	VV	720	14671	0.22%	0.013%
159	11.241	11.231	11.261	VV	192	2557	0.04%	0.002%
160	11.273	11.261	11.288	VV	173	1837	0.03%	0.002%
161	11.318	11.288	11.348	VV	209	5178	0.08%	0.005%
162	11.354	11.348	11.368	VV	85	1004	0.01%	0.001%
163	11.398	11.368	11.435	VV	297	9104	0.13%	0.008%
164	11.450	11.435	11.460	VV	333	3793	0.06%	0.003%
165	11.477	11.460	11.519	VV	415	10036	0.15%	0.009%
166	11.556	11.519	11.602	VV	414	11078	0.16%	0.010%
167	11.609	11.602	11.618	VV	109	953	0.01%	0.001%
168	11.752	11.618	11.781	VV	588	31644	0.47%	0.028%
169	11.800	11.781	11.831	VV	366	7504	0.11%	0.007%
170	11.848	11.831	11.864	VV	282	4549	0.07%	0.004%
171	11.893	11.864	11.938	VV	424	11070	0.16%	0.010%
172	11.973	11.938	12.009	VV	753	21641	0.32%	0.019%
173	12.030	12.009	12.052	VV	621	10594	0.16%	0.009%
174	12.070	12.052	12.085	VV	610	9008	0.13%	0.008%
175	12.093	12.085	12.132	VV	338	6661	0.10%	0.006%
176	12.222	12.132	12.245	VV	1915	41265	0.61%	0.036%
177	12.260	12.245	12.302	VV	961	14054	0.21%	0.012%
178	12.336	12.302	12.359	VV	1377	18443	0.27%	0.016%
179	12.400	12.359	12.498	VV	550415	6748141	100.00%	5.912%
180	12.508	12.498	12.628	VV	306	11917	0.18%	0.010%
181	12.653	12.628	12.664	PV	184	2976	0.04%	0.003%
182	12.672	12.664	12.738	VV	191	5818	0.09%	0.005%
183	12.839	12.738	12.931	VV	286432	3481931	51.60%	3.050%
184	12.953	12.931	12.969	VV	428	8655	0.13%	0.008%
185	13.010	12.969	13.178	VV	526070	6448726	95.56%	5.649%
186	13.208	13.178	13.240	VV	376	10702	0.16%	0.009%
187	13.283	13.240	13.324	VV	471	15893	0.24%	0.014%
188	13.347	13.324	13.364	VV	296	5459	0.08%	0.005%
189	13.384	13.364	13.407	VV	696	11042	0.16%	0.010%
190	13.435	13.407	13.484	VV	1046	21956	0.33%	0.019%
191	13.498	13.484	13.513	VV	276	3937	0.06%	0.003%
192	13.539	13.513	13.556	VV	1419	19411	0.29%	0.017%
193	13.596	13.556	13.688	VV	513366	6381544	94.57%	5.590%
194	13.698	13.688	13.705	VV	257	2361	0.03%	0.002%

rteres

195	13.715	13.705	13.750	VV	301	5196	0.08%	0.005%
196	13.769	13.750	13.791	VV	195	3768	0.06%	0.003%
197	13.806	13.791	13.833	VV	207	4647	0.07%	0.004%
198	13.847	13.833	13.861	VV	198	2753	0.04%	0.002%
199	13.865	13.861	13.908	VV	163	3524	0.05%	0.003%
200	13.930	13.908	13.969	VV	201	4815	0.07%	0.004%
201	13.977	13.969	13.987	VV	121	1041	0.02%	0.001%
202	14.030	13.987	14.108	VV	938	23520	0.35%	0.021%
203	14.119	14.108	14.130	VV	191	1931	0.03%	0.002%
204	14.153	14.130	14.198	VV	516	10405	0.15%	0.009%
205	14.297	14.198	14.368	VV	343	24148	0.36%	0.021%
206	14.397	14.368	14.424	VV	347	8382	0.12%	0.007%
207	14.462	14.424	14.489	VV	351	9124	0.14%	0.008%
208	14.504	14.489	14.521	VV	310	4445	0.07%	0.004%
209	14.545	14.521	14.574	VV	400	7327	0.11%	0.006%
210	14.594	14.574	14.611	VV	242	4170	0.06%	0.004%
211	14.648	14.611	14.657	VV	1188	15313	0.23%	0.013%
212	14.697	14.657	14.824	VV	489965	6246308	92.56%	5.472%
213	14.833	14.824	14.849	VV	140	1753	0.03%	0.002%
214	14.862	14.849	14.922	VV	195	6292	0.09%	0.006%
215	14.930	14.922	14.994	VV	168	4066	0.06%	0.004%
216	15.001	14.994	15.014	VV	75	973	0.01%	0.001%
217	15.024	15.014	15.065	VV	107	2267	0.03%	0.002%
218	15.075	15.065	15.090	VV	130	1445	0.02%	0.001%
219	15.122	15.090	15.136	VV	168	3329	0.05%	0.003%
220	15.212	15.136	15.294	VV	1180	24519	0.36%	0.021%
221	15.354	15.294	15.378	PV	196	5498	0.08%	0.005%
222	15.392	15.378	15.402	VV	164	2044	0.03%	0.002%
223	15.411	15.402	15.468	VV	199	5159	0.08%	0.005%
224	15.567	15.468	15.594	VV	304	13518	0.20%	0.012%
225	15.602	15.594	15.638	VV	178	2874	0.04%	0.003%
226	15.715	15.638	15.874	VV	453709	6127369	90.80%	5.368%
227	15.896	15.874	15.998	VV	161	4903	0.07%	0.004%
228	16.034	15.998	16.058	VV	154	2482	0.04%	0.002%
229	16.065	16.058	16.082	VV	94	878	0.01%	0.001%
230	16.105	16.082	16.141	PV	121	2159	0.03%	0.002%
231	16.159	16.141	16.168	VV	188	1698	0.03%	0.001%
232	16.194	16.168	16.254	VV	1679	25892	0.38%	0.023%
233	16.271	16.254	16.306	VV	270	3955	0.06%	0.003%
234	16.317	16.306	16.331	VV	96	762	0.01%	0.001%
235	16.358	16.331	16.374	VV	229	3509	0.05%	0.003%
236	16.390	16.374	16.434	VV	143	5100	0.08%	0.004%
237	16.442	16.434	16.466	VV	174	2263	0.03%	0.002%
238	16.501	16.466	16.518	VV	188	3685	0.05%	0.003%
239	16.545	16.518	16.598	VV	425	13351	0.20%	0.012%
240	16.664	16.598	16.734	VV	424710	6019424	89.20%	5.273%
241	16.745	16.734	16.788	VV	326	7647	0.11%	0.007%
242	16.795	16.788	16.852	VV	202	4824	0.07%	0.004%
243	16.867	16.852	16.916	VV	103	2253	0.03%	0.002%
244	16.922	16.916	16.927	VV	71	350	0.01%	0.000%
245	16.955	16.927	16.978	VV	290	4629	0.07%	0.004%
246	17.010	16.978	17.028	VV	202	3878	0.06%	0.003%

rteres

247	17.041	17.028	17.068	VV	173	2364	0.04%	0.002%
248	17.111	17.068	17.174	VV	2404	39025	0.58%	0.034%
249	17.336	17.174	17.368	PV	275	20619	0.31%	0.018%
250	17.387	17.368	17.401	VV	272	3524	0.05%	0.003%
251	17.437	17.401	17.475	VV	4691	71943	1.07%	0.063%
252	17.551	17.475	17.619	VV	449116	6077453	90.06%	5.324%
253	17.641	17.619	17.662	VV	447	9996	0.15%	0.009%
254	17.672	17.662	17.714	VV	282	6932	0.10%	0.006%
255	17.731	17.714	17.774	VV	226	3697	0.05%	0.003%
256	17.826	17.774	17.890	PV	320	10337	0.15%	0.009%
257	17.898	17.890	17.906	VV	120	576	0.01%	0.001%
258	17.968	17.906	18.008	PV	3186	48425	0.72%	0.042%
259	18.055	18.008	18.076	VV	133	3080	0.05%	0.003%
260	18.234	18.076	18.250	VV	270	7745	0.11%	0.007%
261	18.266	18.250	18.313	VV	261	4615	0.07%	0.004%
262	18.382	18.313	18.454	PV	413964	6001712	88.94%	5.258%
263	18.507	18.454	18.521	VV	208	5479	0.08%	0.005%
264	18.537	18.521	18.564	VV	182	3281	0.05%	0.003%
265	18.592	18.564	18.604	VV	185	2248	0.03%	0.002%
266	18.633	18.604	18.654	VV	166	3189	0.05%	0.003%
267	18.685	18.654	18.696	VV	99	1632	0.02%	0.001%
268	18.775	18.696	18.808	PV	2910	42936	0.64%	0.038%
269	18.834	18.808	18.874	VV	109	2129	0.03%	0.002%
270	18.961	18.874	18.988	PV	189	6398	0.09%	0.006%
271	19.089	18.988	19.101	VV	250	10181	0.15%	0.009%
272	19.164	19.101	19.253	VV	397589	5928806	87.86%	5.194%
273	19.268	19.253	19.291	VV	393	7503	0.11%	0.007%
274	19.321	19.291	19.364	VV	466	15140	0.22%	0.013%
275	19.471	19.364	19.497	VV	555	31946	0.47%	0.028%
276	19.533	19.497	19.581	VV	1963	43177	0.64%	0.038%
277	19.803	19.581	19.834	VV	1730	120045	1.78%	0.105%
278	19.904	19.834	20.010	VV	361310	5791003	85.82%	5.073%
279	20.021	20.010	20.031	VV	1425	16738	0.25%	0.015%
280	20.255	20.031	20.298	VV	3227	276042	4.09%	0.242%
281	20.431	20.298	20.461	VV	2745	223985	3.32%	0.196%
282	20.475	20.461	20.491	VV	2507	44379	0.66%	0.039%
283	20.616	20.491	20.758	VV	321083	5896031	87.37%	5.165%
284	20.774	20.758	20.812	VV	2369	74617	1.11%	0.065%
285	20.819	20.812	20.828	VV	2218	20610	0.31%	0.018%
286	20.937	20.828	20.968	VV	2225	179546	2.66%	0.157%
287	21.009	20.968	21.049	VV	2645	108714	1.61%	0.095%
288	21.056	21.049	21.072	VV	1873	25754	0.38%	0.023%
289	21.285	21.072	21.298	VV	1863	243309	3.61%	0.213%
290	21.308	21.298	21.320	VV	1825	23251	0.34%	0.020%
291	21.352	21.320	21.361	VV	1736	41635	0.62%	0.036%
292	21.370	21.361	21.381	VV	1619	19867	0.29%	0.017%
293	21.388	21.381	21.395	VV	1626	13279	0.20%	0.012%
294	21.472	21.395	21.628	VV	232470	5539153	82.08%	4.853%
295	21.639	21.628	21.651	VV	1287	17310	0.26%	0.015%
296	21.670	21.651	21.690	VV	1291	28053	0.42%	0.025%
297	21.709	21.690	21.737	VV	1183	31107	0.46%	0.027%
298	21.772	21.737	21.878	VV	1053	77020	1.14%	0.067%
299	21.901	21.878	21.915	VV	749	15281	0.23%	0.013%

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300	21.922	21.915	21.931	VV	654	5922	0.09%	0.005%
301	21.973	21.931	22.041	VV	779	39999	0.59%	0.035%
302	22.055	22.041	22.083	VV	455	8809	0.13%	0.008%
303	22.094	22.083	22.104	VV	307	3505	0.05%	0.003%
304	22.113	22.104	22.147	VV	325	5060	0.07%	0.004%
305	22.162	22.147	22.181	VV	91	1266	0.02%	0.001%

Sum of corrected areas: 114150106

Aliphatic EPH 021125.M Sat Mar 01 01:30:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.838	3629508	32.270 ug/ml
Spiked Amount	50.000		Recovery =	64.54%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3943747	28.034 ug/ml
2) T	n-Decane (C10)	4.261	4754624	33.561 ug/ml
4) T	n-Dodecane (C12)	6.270	5235120	37.192 ug/ml
6) T	n-Tetradecane (C14)	8.059	5850328	42.909 ug/ml
7) T	n-Hexadecane (C16)	9.655	6391300	46.664 ug/ml
8) T	n-Octadecane (C18)	11.093	6650779	48.632 ug/ml
10) T	n-Eicosane (C20)	12.400	6773133	51.986 ug/ml
11) T	n-Heneicosane (C21)	13.010	6452700	50.472 ug/ml
13) T	n-Docosane (C22)	13.595	6400679	50.788 ug/ml
14) T	n-Tetracosane (C24)	14.696	6277459	50.471 ug/ml
15) T	n-Hexacosane (C26)	15.715	6147591	50.559 ug/ml
16) T	n-Octacosane (C28)	16.664	5996760	50.492 ug/ml
17) T	n-Tricontane (C30)	17.551	6013877	49.963 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5975842	51.486 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5937717	54.949 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5683975	59.104 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5522915	61.436 ug/ml
22) T	n-Tetracontane (C40)	21.469	5359281	61.942 ug/ml

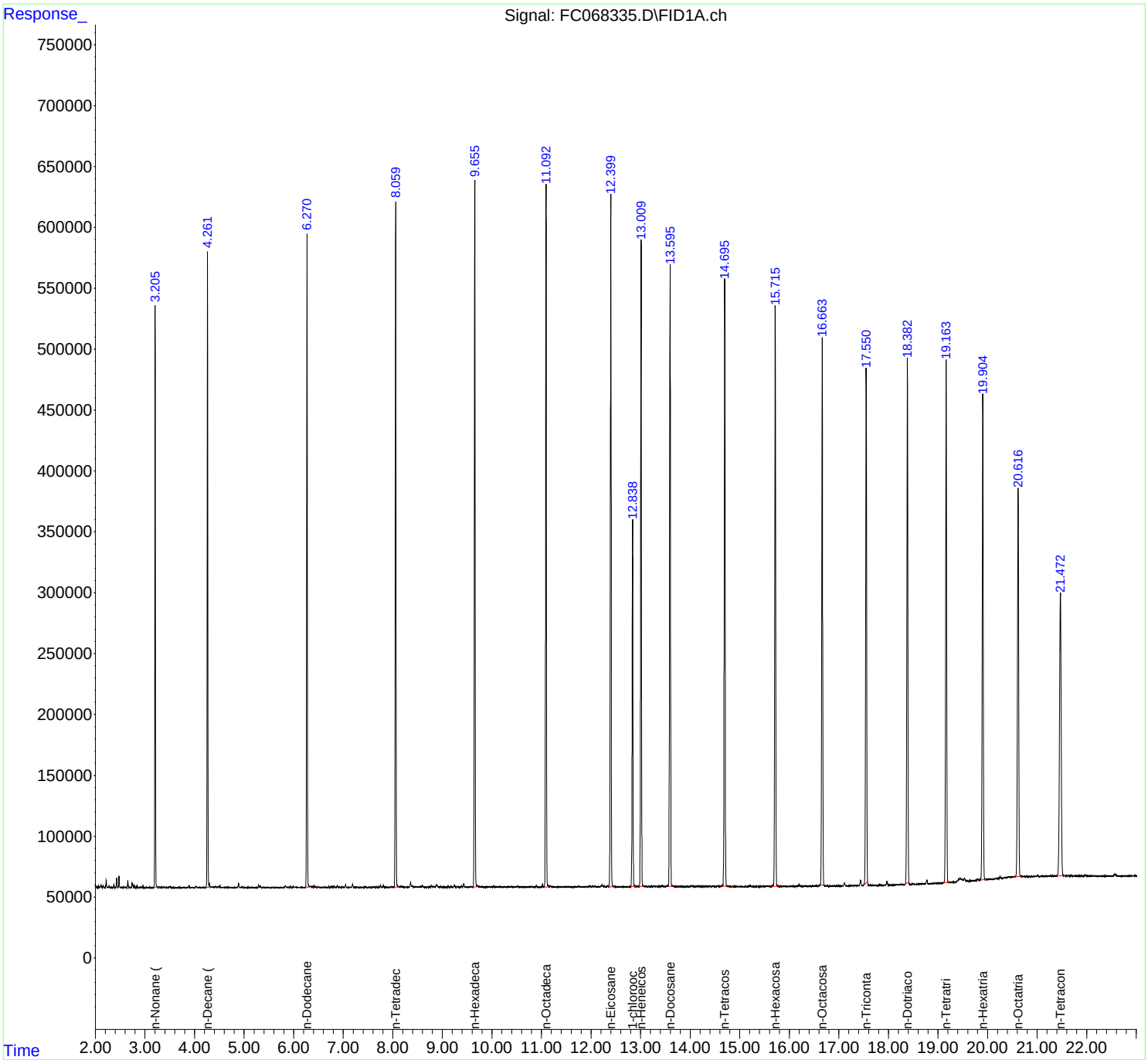
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.373	2.344	2.404	PV	2502	22211	0.33%	0.019%
2	2.429	2.404	2.453	VV	7877	67361	0.99%	0.058%
3	2.475	2.453	2.515	VV	9409	77635	1.14%	0.067%
4	2.525	2.515	2.536	VV	170	1245	0.02%	0.001%
5	2.557	2.536	2.575	PV	406	4865	0.07%	0.004%
6	2.591	2.575	2.624	VV	320	4153	0.06%	0.004%
7	2.653	2.624	2.716	VV	5738	54584	0.80%	0.047%
8	2.742	2.716	2.770	VV	3670	51262	0.75%	0.044%
9	2.786	2.770	2.819	VV	1528	16974	0.25%	0.015%
10	2.838	2.819	2.868	VV	1723	16588	0.24%	0.014%
11	2.917	2.868	2.944	VV	307	7449	0.11%	0.006%
12	2.960	2.944	3.006	VV	1641	15916	0.23%	0.014%
13	3.030	3.006	3.080	VV	276	5287	0.08%	0.005%
14	3.100	3.080	3.144	VV	212	3993	0.06%	0.003%
15	3.205	3.144	3.278	VV	474671	3957131	58.18%	3.433%
16	3.297	3.278	3.311	VV	378	5675	0.08%	0.005%
17	3.325	3.311	3.341	VV	402	5717	0.08%	0.005%
18	3.347	3.341	3.362	VV	269	3064	0.05%	0.003%
19	3.379	3.362	3.390	VV	341	4125	0.06%	0.004%
20	3.400	3.390	3.426	VV	265	4317	0.06%	0.004%
21	3.437	3.426	3.449	VV	243	2333	0.03%	0.002%
22	3.479	3.449	3.486	VV	429	6373	0.09%	0.006%
23	3.500	3.486	3.557	VV	642	13665	0.20%	0.012%
24	3.572	3.557	3.594	VV	260	3022	0.04%	0.003%
25	3.606	3.594	3.624	VV	188	2006	0.03%	0.002%
26	3.631	3.624	3.652	VV	188	1532	0.02%	0.001%
27	3.693	3.652	3.726	VV	330	6919	0.10%	0.006%
28	3.735	3.726	3.753	VV	129	1522	0.02%	0.001%
29	3.773	3.753	3.827	PV	316	5781	0.09%	0.005%
30	3.865	3.827	3.878	VV	528	7061	0.10%	0.006%
31	3.893	3.878	3.944	VV	949	12529	0.18%	0.011%
32	3.958	3.944	3.981	VV	257	2886	0.04%	0.003%
33	4.036	3.981	4.068	VV	924	19293	0.28%	0.017%
34	4.081	4.068	4.124	VV	267	5657	0.08%	0.005%
35	4.128	4.124	4.155	VV	116	1860	0.03%	0.002%
36	4.187	4.155	4.231	VV	184	6637	0.10%	0.006%

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37	4.261	4.231	4.289	VV	520982	4732885	69.59%	4.106%
38	4.300	4.289	4.346	VV	3590	48323	0.71%	0.042%
39	4.362	4.346	4.391	VV	749	14126	0.21%	0.012%
40	4.428	4.391	4.468	VV	1340	26822	0.39%	0.023%
41	4.483	4.468	4.497	VV	1118	12023	0.18%	0.010%
42	4.513	4.497	4.554	VV	1695	21407	0.31%	0.019%
43	4.578	4.554	4.611	VV	238	6809	0.10%	0.006%
44	4.615	4.611	4.621	VV	255	1175	0.02%	0.001%
45	4.633	4.621	4.652	VV	221	3729	0.05%	0.003%
46	4.674	4.652	4.690	VV	235	4007	0.06%	0.003%
47	4.723	4.690	4.761	VV	284	5991	0.09%	0.005%
48	4.810	4.761	4.840	VV	356	5885	0.09%	0.005%
49	4.890	4.840	4.922	VV	3510	46198	0.68%	0.040%
50	4.945	4.922	4.962	VV	661	8349	0.12%	0.007%
51	4.972	4.962	5.054	VV	290	5251	0.08%	0.005%
52	5.078	5.054	5.103	VV	162	2912	0.04%	0.003%
53	5.165	5.103	5.231	VV	223	8730	0.13%	0.008%
54	5.242	5.231	5.249	VV	121	700	0.01%	0.001%
55	5.291	5.249	5.311	VV	1788	20915	0.31%	0.018%
56	5.331	5.311	5.371	VV	1245	16633	0.24%	0.014%
57	5.388	5.371	5.435	VV	278	5352	0.08%	0.005%
58	5.473	5.435	5.499	VV	288	6297	0.09%	0.005%
59	5.535	5.499	5.554	VV	121	2147	0.03%	0.002%
60	5.572	5.554	5.611	PV	295	6050	0.09%	0.005%
61	5.621	5.611	5.647	VV	236	3400	0.05%	0.003%
62	5.660	5.647	5.691	VV	214	3348	0.05%	0.003%
63	5.698	5.691	5.724	VV	131	1437	0.02%	0.001%
64	5.744	5.724	5.778	PV	169	3011	0.04%	0.003%
65	5.793	5.778	5.804	VV	225	2519	0.04%	0.002%
66	5.831	5.804	5.865	VV	1155	23002	0.34%	0.020%
67	5.885	5.865	5.908	VV	585	8183	0.12%	0.007%
68	5.929	5.908	5.962	VV	1083	14937	0.22%	0.013%
69	5.990	5.962	6.033	VV	704	14474	0.21%	0.013%
70	6.060	6.033	6.098	VV	379	9625	0.14%	0.008%
71	6.107	6.098	6.134	VV	182	2833	0.04%	0.002%
72	6.155	6.134	6.172	VV	270	4197	0.06%	0.004%
73	6.190	6.172	6.211	VV	204	3469	0.05%	0.003%
74	6.270	6.211	6.334	VV	535855	5258275	77.32%	4.562%
75	6.351	6.334	6.371	VV	1065	17085	0.25%	0.015%
76	6.386	6.371	6.399	VV	729	9657	0.14%	0.008%
77	6.416	6.399	6.438	VV	1453	18789	0.28%	0.016%
78	6.449	6.438	6.470	VV	588	7170	0.11%	0.006%
79	6.488	6.470	6.571	VV	688	16097	0.24%	0.014%
80	6.585	6.571	6.614	VV	326	5691	0.08%	0.005%
81	6.629	6.614	6.638	VV	240	3112	0.05%	0.003%
82	6.655	6.638	6.688	VV	277	5352	0.08%	0.005%
83	6.709	6.688	6.738	VV	607	8549	0.13%	0.007%
84	6.761	6.738	6.798	VV	813	16805	0.25%	0.015%
85	6.824	6.798	6.848	VV	682	14119	0.21%	0.012%
86	6.887	6.848	6.915	VV	1123	19849	0.29%	0.017%
87	6.925	6.915	6.951	VV	352	4582	0.07%	0.004%
88	6.966	6.951	6.980	VV	305	3964	0.06%	0.003%
89	6.991	6.980	7.020	VV	276	4092	0.06%	0.004%

rteres

90	7.047	7.020	7.078	VV	2375	26454	0.39%	0.023%
91	7.115	7.078	7.141	VV	367	8903	0.13%	0.008%
92	7.154	7.141	7.166	VV	441	4874	0.07%	0.004%
93	7.189	7.166	7.216	VV	2638	31866	0.47%	0.028%
94	7.224	7.216	7.234	VV	278	2586	0.04%	0.002%
95	7.250	7.234	7.268	VV	453	6250	0.09%	0.005%
96	7.279	7.268	7.317	VV	531	7199	0.11%	0.006%
97	7.348	7.317	7.375	VV	228	4627	0.07%	0.004%
98	7.391	7.375	7.423	PV	165	2087	0.03%	0.002%
99	7.449	7.423	7.484	VV	949	12597	0.19%	0.011%
100	7.547	7.484	7.568	VV	253	7576	0.11%	0.007%
101	7.608	7.568	7.630	VV	363	7775	0.11%	0.007%
102	7.668	7.630	7.691	VV	350	8551	0.13%	0.007%
103	7.708	7.691	7.726	VV	435	5500	0.08%	0.005%
104	7.753	7.726	7.776	VV	1610	19006	0.28%	0.016%
105	7.808	7.776	7.830	VV	1612	19530	0.29%	0.017%
106	7.848	7.830	7.863	VV	276	4150	0.06%	0.004%
107	7.878	7.863	7.897	VV	337	4135	0.06%	0.004%
108	7.911	7.897	7.938	VV	306	3742	0.06%	0.003%
109	7.963	7.938	8.024	VV	838	13975	0.21%	0.012%
110	8.059	8.024	8.133	VV	558311	5876988	86.41%	5.099%
111	8.154	8.133	8.198	VV	875	25997	0.38%	0.023%
112	8.205	8.198	8.226	VV	575	7138	0.10%	0.006%
113	8.248	8.226	8.268	VV	590	9697	0.14%	0.008%
114	8.287	8.268	8.331	VV	538	8809	0.13%	0.008%
115	8.358	8.331	8.448	VV	3666	80620	1.19%	0.070%
116	8.471	8.448	8.490	VV	544	11910	0.18%	0.010%
117	8.511	8.490	8.530	VV	656	12138	0.18%	0.011%
118	8.544	8.530	8.578	VV	589	12179	0.18%	0.011%
119	8.592	8.578	8.632	VV	1154	20881	0.31%	0.018%
120	8.653	8.632	8.688	VV	335	6768	0.10%	0.006%
121	8.708	8.688	8.731	VV	420	6134	0.09%	0.005%
122	8.777	8.731	8.796	VV	1474	23554	0.35%	0.020%
123	8.812	8.796	8.824	VV	922	11440	0.17%	0.010%
124	8.833	8.824	8.855	VV	648	9998	0.15%	0.009%
125	8.888	8.855	8.948	VV	2152	49076	0.72%	0.043%
126	8.963	8.948	8.985	VV	562	7555	0.11%	0.007%
127	9.011	8.985	9.043	VV	513	8303	0.12%	0.007%
128	9.065	9.043	9.077	VV	312	4013	0.06%	0.003%
129	9.122	9.077	9.147	VV	426	13195	0.19%	0.011%
130	9.174	9.147	9.218	VV	831	15325	0.23%	0.013%
131	9.244	9.218	9.274	VV	1474	24426	0.36%	0.021%
132	9.293	9.274	9.328	VV	955	14652	0.22%	0.013%
133	9.336	9.328	9.354	VV	327	3858	0.06%	0.003%
134	9.388	9.354	9.411	VV	880	16117	0.24%	0.014%
135	9.432	9.411	9.472	VV	3042	38078	0.56%	0.033%
136	9.491	9.472	9.531	VV	304	6325	0.09%	0.005%
137	9.542	9.531	9.547	VV	217	1821	0.03%	0.002%
138	9.577	9.547	9.616	VV	637	14876	0.22%	0.013%
139	9.655	9.616	9.809	VV	582924	6443012	94.74%	5.590%
140	9.816	9.809	9.902	VV	371	11880	0.17%	0.010%
141	9.932	9.902	9.945	VV	231	4935	0.07%	0.004%

rteres

142	9.965	9.945	9.991	VV	405	7626	0.11%	0.007%
143	10.045	9.991	10.064	VV	552	15043	0.22%	0.013%
144	10.075	10.064	10.104	VV	466	7552	0.11%	0.007%
145	10.132	10.104	10.194	VV	328	11990	0.18%	0.010%
146	10.249	10.194	10.267	VV	378	9371	0.14%	0.008%
147	10.285	10.267	10.301	VV	424	5946	0.09%	0.005%
148	10.321	10.301	10.351	VV	538	11450	0.17%	0.010%
149	10.392	10.351	10.425	VV	663	17716	0.26%	0.015%
150	10.441	10.425	10.458	VV	425	6043	0.09%	0.005%
151	10.469	10.458	10.488	VV	358	5477	0.08%	0.005%
152	10.516	10.488	10.545	VV	1026	18038	0.27%	0.016%
153	10.557	10.545	10.585	VV	286	5213	0.08%	0.005%
154	10.603	10.585	10.621	VV	252	4261	0.06%	0.004%
155	10.640	10.621	10.660	VV	196	3528	0.05%	0.003%
156	10.712	10.660	10.734	VV	336	8930	0.13%	0.008%
157	10.761	10.734	10.790	VV	365	8910	0.13%	0.008%
158	10.811	10.790	10.861	VV	589	10956	0.16%	0.010%
159	10.894	10.861	10.931	VV	1419	18488	0.27%	0.016%
160	10.967	10.931	10.991	VV	138	2181	0.03%	0.002%
161	11.021	10.991	11.050	PV	1872	24243	0.36%	0.021%
162	11.093	11.050	11.170	VV	580810	6671816	98.10%	5.788%
163	11.182	11.170	11.223	VV	750	13273	0.20%	0.012%
164	11.244	11.223	11.260	VV	195	3616	0.05%	0.003%
165	11.285	11.260	11.358	VV	237	8007	0.12%	0.007%
166	11.404	11.358	11.455	VV	302	12323	0.18%	0.011%
167	11.478	11.455	11.528	VV	482	11270	0.17%	0.010%
168	11.549	11.528	11.594	VV	342	9367	0.14%	0.008%
169	11.610	11.594	11.634	VV	111	2326	0.03%	0.002%
170	11.751	11.634	11.784	VV	660	27357	0.40%	0.024%
171	11.798	11.784	11.824	VV	370	5560	0.08%	0.005%
172	11.846	11.824	11.874	VV	231	5481	0.08%	0.005%
173	11.894	11.874	11.930	VV	331	9067	0.13%	0.008%
174	11.971	11.930	12.009	VV	757	21949	0.32%	0.019%
175	12.029	12.009	12.052	VV	682	11399	0.17%	0.010%
176	12.070	12.052	12.138	VV	475	15630	0.23%	0.014%
177	12.221	12.138	12.311	VV	1844	54129	0.80%	0.047%
178	12.336	12.311	12.357	VV	1213	16281	0.24%	0.014%
179	12.399	12.357	12.594	VV	561865	6800978	100.00%	5.900%
180	12.601	12.594	12.624	VV	70	1366	0.02%	0.001%
181	12.673	12.624	12.704	VV	234	7163	0.11%	0.006%
182	12.717	12.704	12.735	VV	236	2291	0.03%	0.002%
183	12.838	12.735	12.931	VV	302568	3667462	53.93%	3.182%
184	12.948	12.931	12.963	VV	456	7614	0.11%	0.007%
185	13.010	12.963	13.168	VV	539095	6502462	95.61%	5.641%
186	13.211	13.168	13.244	VV	404	14956	0.22%	0.013%
187	13.282	13.244	13.327	VV	521	19259	0.28%	0.017%
188	13.384	13.327	13.408	VV	779	19983	0.29%	0.017%
189	13.435	13.408	13.478	VV	1176	24907	0.37%	0.022%
190	13.539	13.478	13.558	VV	1500	28138	0.41%	0.024%
191	13.595	13.558	13.764	VV	509448	6446362	94.79%	5.593%
192	13.837	13.764	13.871	VV	327	15756	0.23%	0.014%
193	13.884	13.871	13.899	VV	270	3904	0.06%	0.003%
194	13.918	13.899	13.950	VV	244	6452	0.09%	0.006%

rteres

195	14.028	13.950	14.128	VV	1094	37948	0.56%	0.033%
196	14.153	14.128	14.184	VV	577	12358	0.18%	0.011%
197	14.211	14.184	14.229	VV	335	6566	0.10%	0.006%
198	14.300	14.229	14.373	VV	432	27150	0.40%	0.024%
199	14.396	14.373	14.437	VV	321	11353	0.17%	0.010%
200	14.464	14.437	14.520	VV	340	14734	0.22%	0.013%
201	14.544	14.520	14.571	VV	389	8453	0.12%	0.007%
202	14.592	14.571	14.616	VV	367	6038	0.09%	0.005%
203	14.696	14.616	14.824	VV	491177	6311101	92.80%	5.475%
204	14.866	14.824	14.924	VV	317	9873	0.15%	0.009%
205	14.950	14.924	14.991	PV	199	5316	0.08%	0.005%
206	15.002	14.991	15.031	VV	154	2035	0.03%	0.002%
207	15.076	15.031	15.088	VV	166	2453	0.04%	0.002%
208	15.114	15.088	15.154	VV	176	4085	0.06%	0.004%
209	15.211	15.154	15.247	VV	1181	20538	0.30%	0.018%
210	15.265	15.247	15.290	VV	172	2829	0.04%	0.002%
211	15.407	15.290	15.448	PV	203	11247	0.17%	0.010%
212	15.570	15.448	15.624	VV	306	18241	0.27%	0.016%
213	15.715	15.624	15.831	VV	475768	6171807	90.75%	5.354%
214	15.851	15.831	15.871	VV	153	3238	0.05%	0.003%
215	15.897	15.871	15.930	VV	187	4366	0.06%	0.004%
216	16.005	15.930	16.038	PV	161	5778	0.08%	0.005%
217	16.078	16.038	16.131	VV	114	4414	0.06%	0.004%
218	16.195	16.131	16.264	VV	1742	30012	0.44%	0.026%
219	16.274	16.264	16.295	VV	170	1928	0.03%	0.002%
220	16.359	16.295	16.393	VV	215	6380	0.09%	0.006%
221	16.406	16.393	16.418	VV	117	1437	0.02%	0.001%
222	16.546	16.418	16.578	PV	376	14792	0.22%	0.013%
223	16.663	16.578	16.731	VV	451399	6063367	89.15%	5.260%
224	16.749	16.731	16.791	VV	317	7273	0.11%	0.006%
225	16.812	16.791	16.884	VV	149	3743	0.06%	0.003%
226	16.953	16.884	16.984	VV	318	6427	0.09%	0.006%
227	16.999	16.984	17.044	VV	168	3051	0.04%	0.003%
228	17.111	17.044	17.171	PV	2514	39934	0.59%	0.035%
229	17.248	17.171	17.278	VV	174	7325	0.11%	0.006%
230	17.337	17.278	17.358	VV	245	8419	0.12%	0.007%
231	17.437	17.358	17.481	VV	4667	75858	1.12%	0.066%
232	17.550	17.481	17.613	VV	420390	6116891	89.94%	5.307%
233	17.640	17.613	17.748	VV	430	21798	0.32%	0.019%
234	17.824	17.748	17.901	VV	400	14951	0.22%	0.013%
235	17.969	17.901	18.011	PV	3519	53311	0.78%	0.046%
236	18.139	18.011	18.186	VV	118	8759	0.13%	0.008%
237	18.274	18.186	18.311	PV	230	10952	0.16%	0.010%
238	18.382	18.311	18.471	VV	425715	6043157	88.86%	5.243%
239	18.509	18.471	18.571	VV	202	7981	0.12%	0.007%
240	18.635	18.571	18.658	VV	182	4735	0.07%	0.004%
241	18.774	18.658	18.818	PV	3017	46839	0.69%	0.041%
242	18.956	18.818	18.987	VV	222	9175	0.13%	0.008%
243	19.164	18.987	19.249	PV	428957	5973219	87.83%	5.182%
244	19.319	19.249	19.344	VV	528	18857	0.28%	0.016%
245	19.451	19.344	19.506	VV	3048	182426	2.68%	0.158%
246	19.533	19.506	19.613	VV	3210	102533	1.51%	0.089%

rteres

247	19.801	19.613	19.831	VV	1981	128535	1.89%	0.112%
248	19.903	19.831	20.003	VV	404559	5825520	85.66%	5.054%
249	20.255	20.003	20.298	VV	3245	305181	4.49%	0.265%
250	20.428	20.298	20.481	VV	2645	253400	3.73%	0.220%
251	20.616	20.481	20.741	VV	321516	5922266	87.08%	5.138%
252	20.765	20.741	20.831	VV	2384	124414	1.83%	0.108%
253	20.855	20.831	20.881	VV	2229	64875	0.95%	0.056%
254	20.932	20.881	20.967	VV	2165	107428	1.58%	0.093%
255	21.011	20.967	21.070	VV	2690	133329	1.96%	0.116%
256	21.293	21.070	21.391	VV	1949	356782	5.25%	0.310%
257	21.469	21.391	21.622	VV	233803	5573920	81.96%	4.836%
258	21.637	21.622	21.662	VV	1272	30341	0.45%	0.026%
259	21.766	21.662	21.834	VV	1126	112158	1.65%	0.097%
260	21.847	21.834	21.888	VV	872	25623	0.38%	0.022%
261	21.983	21.888	22.051	VV	833	65515	0.96%	0.057%
262	22.066	22.051	22.224	VV	471	24734	0.36%	0.021%

Sum of corrected areas: 115264388

Aliphatic EPH 021125.M Sat Mar 01 01:31:30 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	8004383	55.932 ug/ml
Spiked Amount	50.000		Recovery =	111.86%
6) S	2-Flurobiphenyl (SURR)	8.203	5197744	59.124 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	118.25%
11) S	ortho-Terphenyl (SURR)	11.234	5182415	32.035 ug/ml
Spiked Amount	50.000		Recovery =	64.07%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	6806303	42.739 ug/ml
2) T	Naphthalene (C11.7)	5.693	7499718	47.231 ug/ml
3) T	2-Methylnaphthalene (...	6.739	7389966	47.465 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	8610669	52.954 ug/ml
7) T	Acenaphthene (C15.5)	8.300	9186896	55.844 ug/ml
8) T	Flouorene (C16.55)	9.079	9395749	59.599 ug/ml
9) T	Phenanthrene (C19.36)	10.468	9704487	64.396 ug/ml
10) T	Anthracene (C19.43)	10.543	9855802	65.258 ug/ml
12) T	Fluoranthene (C21.85)	12.273	10149905	65.774 ug/ml
13) T	Pyrene (C20.8)	12.566	9846593	63.915 ug/ml
14) T	Benzo[a]anthracene (C...	14.437	9400442	71.546 ug/ml
15) T	Chrysene (C27.41)	14.479	9200670	56.904 ug/ml
16) T	benzo[b]fluoranthene ...	15.987	9332863	67.829 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.022	9405347	59.549 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	9010214	66.380 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	8902747	81.470 ug/ml
20) T	Dibenz[a,h]anthracene...	17.767	9038652	58.261 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.984	8820594	60.852 ug/ml

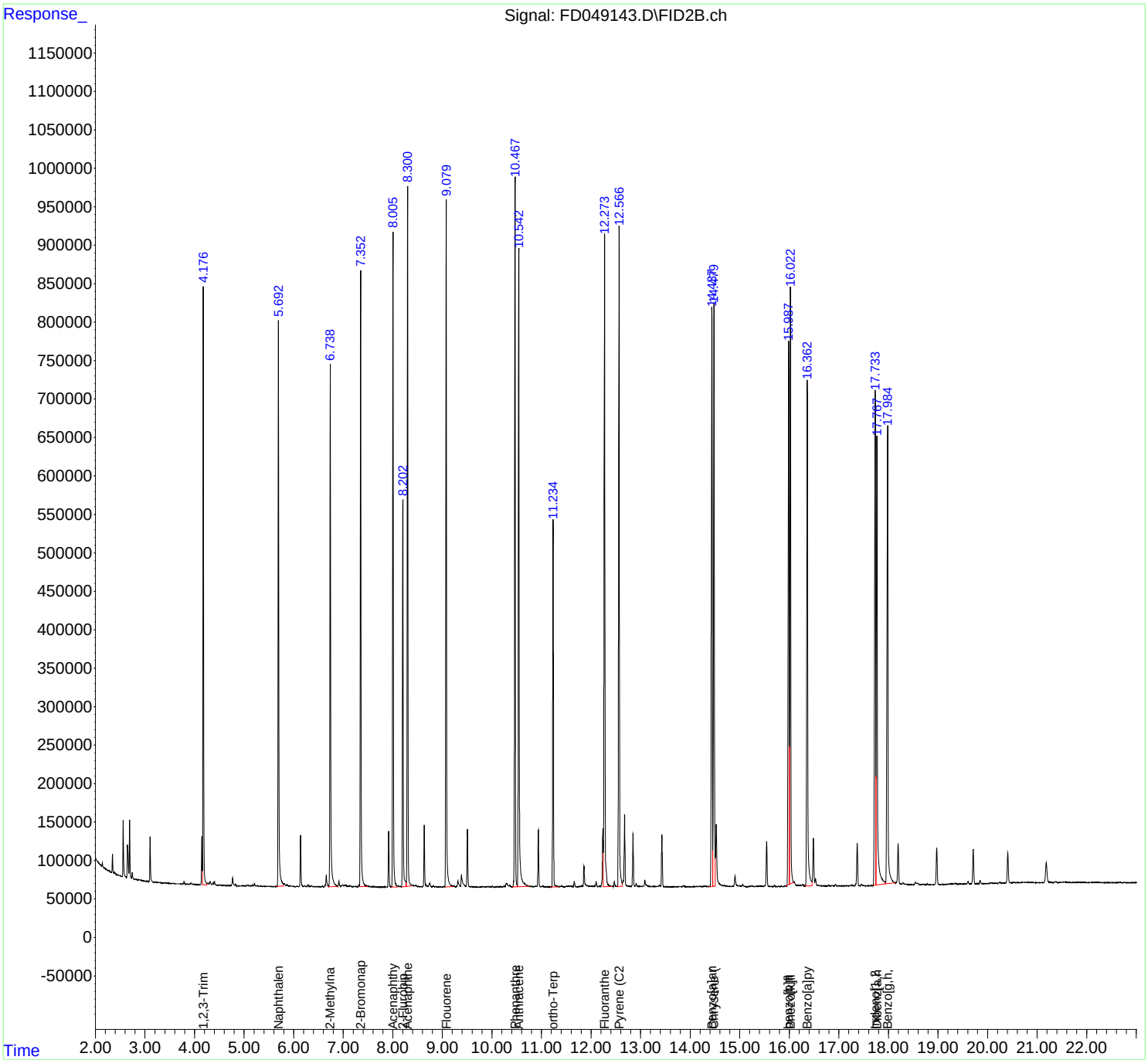
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.052	4.042	4.077	BV	152	1824	0.02%	0.001%
2	4.097	4.077	4.123	VV	200	2811	0.03%	0.001%
3	4.147	4.123	4.159	PV	63153	570838	5.59%	0.282%
4	4.176	4.159	4.247	VV	777604	6811089	66.71%	3.366%
5	4.264	4.247	4.283	VV	2518	44255	0.43%	0.022%
6	4.316	4.283	4.354	VV	4700	97915	0.96%	0.048%
7	4.372	4.354	4.387	VV	3581	42915	0.42%	0.021%
8	4.401	4.387	4.469	VV	5387	74932	0.73%	0.037%
9	4.491	4.469	4.498	VV	557	7223	0.07%	0.004%
10	4.514	4.498	4.544	VV	978	14805	0.14%	0.007%
11	4.549	4.544	4.557	VV	330	1801	0.02%	0.001%
12	4.561	4.557	4.570	VV	421	2357	0.02%	0.001%
13	4.583	4.570	4.593	VV	435	3298	0.03%	0.002%
14	4.608	4.593	4.617	VV	342	3178	0.03%	0.002%
15	4.624	4.617	4.642	VV	206	2250	0.02%	0.001%
16	4.648	4.642	4.660	VV	239	1291	0.01%	0.001%
17	4.666	4.660	4.673	PV	202	1068	0.01%	0.001%
18	4.689	4.673	4.709	VV	613	6780	0.07%	0.003%
19	4.714	4.709	4.725	VV	382	2486	0.02%	0.001%
20	4.769	4.725	4.811	VV	10385	149782	1.47%	0.074%
21	4.827	4.811	4.848	VV	2278	26668	0.26%	0.013%
22	4.858	4.848	4.882	VV	430	4562	0.04%	0.002%
23	4.886	4.882	4.891	VV	241	1049	0.01%	0.001%
24	4.898	4.891	4.906	VV	230	1407	0.01%	0.001%
25	4.918	4.906	4.942	VV	220	2878	0.03%	0.001%
26	4.967	4.942	5.002	VV	677	11218	0.11%	0.006%
27	5.005	5.002	5.017	VV	305	1996	0.02%	0.001%
28	5.020	5.017	5.033	VV	386	1872	0.02%	0.001%
29	5.048	5.033	5.114	VV	1629	47163	0.46%	0.023%
30	5.134	5.114	5.151	VV	783	13240	0.13%	0.007%
31	5.177	5.151	5.195	VV	1693	25292	0.25%	0.013%
32	5.211	5.195	5.234	VV	3795	44340	0.43%	0.022%
33	5.236	5.234	5.255	VV	718	8073	0.08%	0.004%
34	5.268	5.255	5.322	VV	1166	20586	0.20%	0.010%
35	5.340	5.322	5.351	VV	618	8137	0.08%	0.004%
36	5.358	5.351	5.380	VV	467	5563	0.05%	0.003%

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37	5.383	5.380	5.406	VV	281	3514	0.03%	0.002%
38	5.411	5.406	5.435	VV	287	3793	0.04%	0.002%
39	5.461	5.444	5.494	VV	641	10403	0.10%	0.005%
40	5.517	5.494	5.550	VV	539	12495	0.12%	0.006%
41	5.556	5.550	5.575	VV	427	4592	0.04%	0.002%
42	5.581	5.575	5.595	VV	324	2879	0.03%	0.001%
43	5.607	5.595	5.618	VV	343	2915	0.03%	0.001%
44	5.641	5.618	5.669	PV	299	5438	0.05%	0.003%
45	5.693	5.669	5.800	VV	734408	7561727	74.06%	3.737%
46	5.810	5.800	5.855	VV	4343	90069	0.88%	0.045%
47	5.872	5.855	5.907	VV	2447	49341	0.48%	0.024%
48	5.938	5.907	5.964	VV	1474	35410	0.35%	0.018%
49	5.973	5.964	5.990	VV	652	7722	0.08%	0.004%
50	5.997	5.990	6.008	VV	560	4300	0.04%	0.002%
51	6.019	6.008	6.023	VV	471	2723	0.03%	0.001%
52	6.028	6.023	6.045	VV	418	4213	0.04%	0.002%
53	6.054	6.045	6.058	VV	468	3046	0.03%	0.002%
54	6.065	6.058	6.070	VV	486	3555	0.03%	0.002%
55	6.072	6.070	6.103	VV	590	9105	0.09%	0.005%
56	6.140	6.103	6.193	VV	67007	710905	6.96%	0.351%
57	6.200	6.193	6.205	VV	605	3527	0.03%	0.002%
58	6.221	6.205	6.243	VV	1759	21706	0.21%	0.011%
59	6.261	6.243	6.274	VV	912	10752	0.11%	0.005%
60	6.291	6.274	6.310	VV	3067	35997	0.35%	0.018%
61	6.324	6.310	6.347	VV	1046	12714	0.12%	0.006%
62	6.362	6.347	6.399	VV	1716	21006	0.21%	0.010%
63	6.404	6.399	6.429	VV	348	4618	0.05%	0.002%
64	6.461	6.429	6.466	VV	514	6657	0.07%	0.003%
65	6.472	6.466	6.491	VV	361	3290	0.03%	0.002%
66	6.502	6.491	6.526	VV	403	5043	0.05%	0.002%
67	6.547	6.536	6.552	VV	237	1204	0.01%	0.001%
68	6.577	6.552	6.612	VV	1315	17042	0.17%	0.008%
69	6.631	6.612	6.641	VV	1693	18622	0.18%	0.009%
70	6.658	6.641	6.692	VV	15464	194307	1.90%	0.096%
71	6.700	6.692	6.711	VV	1758	18601	0.18%	0.009%
72	6.739	6.711	6.851	VV	679171	7383052	72.31%	3.649%
73	6.854	6.851	6.881	VV	2477	33866	0.33%	0.017%
74	6.887	6.881	6.891	VV	1471	8334	0.08%	0.004%
75	6.913	6.891	6.949	VV	7638	108444	1.06%	0.054%
76	6.991	6.949	7.011	VV	3213	74290	0.73%	0.037%
77	7.023	7.011	7.037	VV	2116	29343	0.29%	0.015%
78	7.058	7.037	7.082	VV	2231	44437	0.44%	0.022%
79	7.088	7.082	7.096	VV	906	7281	0.07%	0.004%
80	7.117	7.096	7.129	VV	1542	21709	0.21%	0.011%
81	7.145	7.129	7.174	VV	1799	28489	0.28%	0.014%
82	7.177	7.174	7.190	VV	523	3784	0.04%	0.002%
83	7.197	7.190	7.201	VV	451	2479	0.02%	0.001%
84	7.207	7.201	7.216	VV	518	3999	0.04%	0.002%
85	7.232	7.216	7.250	VV	1040	14345	0.14%	0.007%
86	7.256	7.250	7.269	VV	605	6331	0.06%	0.003%
87	7.272	7.269	7.291	VV	581	4459	0.04%	0.002%
88	7.315	7.291	7.328	VV	2492	28344	0.28%	0.014%
89	7.352	7.328	7.504	VV	801757	8084590	79.18%	3.996%

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90	7.514	7.504	7.539	VV	1114	19282	0.19%	0.010%
91	7.544	7.539	7.565	VV	777	10551	0.10%	0.005%
92	7.578	7.565	7.595	VV	802	10909	0.11%	0.005%
93	7.621	7.595	7.665	VV	1518	23244	0.23%	0.011%
94	7.678	7.665	7.691	VV	391	2936	0.03%	0.001%
95	7.702	7.691	7.737	VV	451	6081	0.06%	0.003%
96	7.750	7.737	7.774	PV	306	2740	0.03%	0.001%
97	7.792	7.785	7.803	PV	215	1206	0.01%	0.001%
98	7.832	7.803	7.851	VV	452	6992	0.07%	0.003%
99	7.859	7.851	7.873	VV	421	3328	0.03%	0.002%
100	7.918	7.873	7.959	VV	72554	765234	7.49%	0.378%
101	7.966	7.959	7.978	VV	423	4020	0.04%	0.002%
102	8.005	7.978	8.100	VV	851882	8632702	84.55%	4.267%
103	8.113	8.100	8.135	VV	1710	25024	0.25%	0.012%
104	8.148	8.135	8.177	VV	1404	20232	0.20%	0.010%
105	8.203	8.177	8.273	VV	503940	5226608	51.19%	2.583%
106	8.300	8.273	8.374	VV	912589	9249942	90.59%	4.572%
107	8.375	8.374	8.398	VV	3521	39746	0.39%	0.020%
108	8.407	8.398	8.440	VV	2046	46801	0.46%	0.023%
109	8.458	8.440	8.492	VV	2464	56965	0.56%	0.028%
110	8.497	8.492	8.504	VV	841	5350	0.05%	0.003%
111	8.516	8.504	8.540	VV	1431	19998	0.20%	0.010%
112	8.564	8.540	8.597	VV	1002	22135	0.22%	0.011%
113	8.636	8.597	8.712	VV	80870	885631	8.67%	0.438%
114	8.745	8.712	8.786	VV	5378	105642	1.03%	0.052%
115	8.819	8.786	8.850	VV	1807	37017	0.36%	0.018%
116	8.871	8.850	8.898	VV	888	13799	0.14%	0.007%
117	8.908	8.898	8.921	VV	423	3912	0.04%	0.002%
118	8.946	8.921	8.957	VV	673	10071	0.10%	0.005%
119	8.961	8.957	8.970	VV	561	3299	0.03%	0.002%
120	8.974	8.970	8.990	VV	413	3165	0.03%	0.002%
121	9.018	8.999	9.026	VV	804	9065	0.09%	0.004%
122	9.032	9.026	9.037	VV	779	4178	0.04%	0.002%
123	9.041	9.037	9.051	VV	778	4913	0.05%	0.002%
124	9.079	9.051	9.222	VV	893730	9456631	92.62%	4.674%
125	9.236	9.222	9.269	VV	1541	31863	0.31%	0.016%
126	9.314	9.269	9.370	VV	8137	183643	1.80%	0.091%
127	9.386	9.370	9.478	VV	15973	356742	3.49%	0.176%
128	9.506	9.478	9.553	VV	75343	848602	8.31%	0.419%
129	9.557	9.553	9.569	VV	789	6282	0.06%	0.003%
130	9.592	9.569	9.641	VV	976	29599	0.29%	0.015%
131	9.649	9.641	9.670	VV	490	4976	0.05%	0.002%
132	9.685	9.670	9.707	VV	401	5380	0.05%	0.003%
133	9.779	9.730	9.796	PV	561	13417	0.13%	0.007%
134	9.822	9.796	9.843	VV	980	16641	0.16%	0.008%
135	9.857	9.843	9.863	VV	375	3626	0.04%	0.002%
136	9.877	9.863	9.885	VV	641	6582	0.06%	0.003%
137	9.900	9.885	9.915	VV	939	12077	0.12%	0.006%
138	9.932	9.915	9.957	VV	973	16847	0.16%	0.008%
139	9.976	9.957	9.989	VV	517	8146	0.08%	0.004%
140	10.010	9.989	10.036	VV	1599	19088	0.19%	0.009%
141	10.049	10.036	10.057	VV	322	3092	0.03%	0.002%

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142	10.060	10.057	10.072	VV	316	2204	0.02%	0.001%
143	10.097	10.072	10.119	VV	870	16240	0.16%	0.008%
144	10.131	10.119	10.158	VV	927	12583	0.12%	0.006%
145	10.173	10.158	10.204	VV	1017	16348	0.16%	0.008%
146	10.241	10.204	10.245	VV	1242	19318	0.19%	0.010%
147	10.250	10.245	10.270	VV	1326	14116	0.14%	0.007%
148	10.288	10.270	10.294	VV	5085	44328	0.43%	0.022%
149	10.301	10.294	10.343	VV	4770	90742	0.89%	0.045%
150	10.362	10.343	10.402	VV	2787	46194	0.45%	0.023%
151	10.468	10.402	10.515	VV	919186	9737893	95.37%	4.813%
152	10.543	10.515	10.649	VV	826412	9821537	96.19%	4.854%
153	10.655	10.649	10.735	VV	5155	158646	1.55%	0.078%
154	10.739	10.735	10.745	VV	1684	9348	0.09%	0.005%
155	10.751	10.745	10.787	VV	1663	31644	0.31%	0.016%
156	10.802	10.787	10.847	VV	1009	26408	0.26%	0.013%
157	10.850	10.847	10.856	VV	666	3532	0.03%	0.002%
158	10.873	10.856	10.886	VV	1434	18259	0.18%	0.009%
159	10.891	10.886	10.900	VV	1164	8827	0.09%	0.004%
160	10.937	10.900	10.976	VV	74543	880787	8.63%	0.435%
161	10.993	10.976	11.007	VV	990	15777	0.15%	0.008%
162	11.028	11.007	11.088	VV	1310	34538	0.34%	0.017%
163	11.093	11.088	11.105	VV	424	2973	0.03%	0.001%
164	11.119	11.105	11.126	VV	366	3726	0.04%	0.002%
165	11.134	11.126	11.140	VV	371	2645	0.03%	0.001%
166	11.152	11.140	11.175	VV	460	6598	0.06%	0.003%
167	11.179	11.175	11.187	VV	226	1405	0.01%	0.001%
168	11.234	11.200	11.309	PV	478016	5197562	50.90%	2.569%
169	11.323	11.309	11.340	VV	1206	18645	0.18%	0.009%
170	11.343	11.340	11.364	VV	803	9899	0.10%	0.005%
171	11.372	11.364	11.378	VV	984	6608	0.06%	0.003%
172	11.407	11.378	11.435	VV	1922	37632	0.37%	0.019%
173	11.443	11.435	11.457	VV	448	4843	0.05%	0.002%
174	11.463	11.457	11.475	VV	340	3115	0.03%	0.002%
175	11.509	11.475	11.513	VV	1111	17109	0.17%	0.008%
176	11.522	11.513	11.552	VV	1204	24381	0.24%	0.012%
177	11.561	11.552	11.576	VV	1182	15808	0.15%	0.008%
178	11.588	11.576	11.616	VV	1425	27110	0.27%	0.013%
179	11.629	11.616	11.635	VV	827	8822	0.09%	0.004%
180	11.661	11.635	11.694	VV	7342	100043	0.98%	0.049%
181	11.705	11.694	11.721	VV	574	7697	0.08%	0.004%
182	11.731	11.721	11.749	VV	827	11893	0.12%	0.006%
183	11.755	11.749	11.779	VV	959	12231	0.12%	0.006%
184	11.816	11.779	11.837	VV	1893	42894	0.42%	0.021%
185	11.857	11.837	11.920	VV	27368	392477	3.84%	0.194%
186	11.932	11.920	11.959	VV	1876	34073	0.33%	0.017%
187	11.974	11.959	11.996	VV	1358	24934	0.24%	0.012%
188	12.009	11.996	12.035	VV	1284	24418	0.24%	0.012%
189	12.037	12.035	12.046	VV	929	4808	0.05%	0.002%
190	12.103	12.046	12.135	VV	7193	127813	1.25%	0.063%
191	12.147	12.135	12.159	VV	773	8543	0.08%	0.004%
192	12.179	12.159	12.196	VV	2052	26567	0.26%	0.013%
193	12.238	12.196	12.248	VV	76301	831869	8.15%	0.411%
194	12.273	12.248	12.417	VV	852748	10210561	100.00%	5.046%

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195	12.419	12.417	12.425	VV	779	3495	0.03%	0.002%
196	12.440	12.425	12.448	VV	855	11371	0.11%	0.006%
197	12.468	12.448	12.515	VV	7122	103350	1.01%	0.051%
198	12.518	12.515	12.532	VV	803	7169	0.07%	0.004%
199	12.566	12.532	12.631	VV	865346	9902740	96.99%	4.894%
200	12.676	12.631	12.730	VV	94615	1298259	12.71%	0.642%
201	12.736	12.730	12.792	VV	1642	42454	0.42%	0.021%
202	12.846	12.792	12.885	VV	69040	849874	8.32%	0.420%
203	12.910	12.885	12.944	VV	4519	73734	0.72%	0.036%
204	12.961	12.944	12.969	VV	927	11854	0.12%	0.006%
205	12.974	12.969	12.977	VV	822	3842	0.04%	0.002%
206	12.989	12.977	13.007	VV	939	13626	0.13%	0.007%
207	13.012	13.007	13.016	VV	695	3494	0.03%	0.002%
208	13.042	13.016	13.062	VV	1107	24265	0.24%	0.012%
209	13.084	13.062	13.154	VV	9048	187617	1.84%	0.093%
210	13.161	13.154	13.168	VV	949	6925	0.07%	0.003%
211	13.176	13.168	13.216	VV	1013	21493	0.21%	0.011%
212	13.224	13.216	13.239	VV	725	8146	0.08%	0.004%
213	13.260	13.239	13.265	VV	918	12031	0.12%	0.006%
214	13.269	13.265	13.284	VV	825	8548	0.08%	0.004%
215	13.291	13.284	13.297	VV	823	5566	0.05%	0.003%
216	13.303	13.297	13.315	VV	782	6736	0.07%	0.003%
217	13.336	13.315	13.348	VV	839	12204	0.12%	0.006%
218	13.383	13.348	13.402	VV	2198	40734	0.40%	0.020%
219	13.429	13.402	13.476	VV	68084	826651	8.10%	0.409%
220	13.484	13.476	13.506	VV	417	6082	0.06%	0.003%
221	13.536	13.506	13.543	VV	467	7707	0.08%	0.004%
222	13.550	13.543	13.560	VV	326	2244	0.02%	0.001%
223	13.574	13.570	13.587	VV	254	1198	0.01%	0.001%
224	13.601	13.593	13.606	VV	227	1141	0.01%	0.001%
225	13.621	13.613	13.645	PV	96	1363	0.01%	0.001%
226	13.662	13.652	13.668	VV	326	1699	0.02%	0.001%
227	13.686	13.675	13.694	VV	308	2352	0.02%	0.001%
228	13.700	13.694	13.712	VV	279	1992	0.02%	0.001%
229	13.722	13.712	13.733	VV	292	2331	0.02%	0.001%
230	13.743	13.733	13.752	VV	196	1655	0.02%	0.001%
231	13.761	13.752	13.765	VV	288	1903	0.02%	0.001%
232	13.771	13.765	13.795	VV	412	4892	0.05%	0.002%
233	13.799	13.795	13.806	VV	293	1486	0.01%	0.001%
234	13.828	13.806	13.835	VV	532	5605	0.05%	0.003%
235	13.868	13.835	13.896	VV	1781	35299	0.35%	0.017%
236	13.900	13.896	13.929	VV	442	6777	0.07%	0.003%
237	13.959	13.929	13.975	PV	374	5501	0.05%	0.003%
238	13.992	13.975	14.012	VV	364	4836	0.05%	0.002%
239	14.024	14.012	14.042	VV	292	3511	0.03%	0.002%
240	14.047	14.042	14.051	VV	222	1088	0.01%	0.001%
241	14.057	14.051	14.068	VV	476	2482	0.02%	0.001%
242	14.092	14.068	14.113	VV	534	9723	0.10%	0.005%
243	14.128	14.113	14.140	VV	723	8637	0.08%	0.004%
244	14.156	14.140	14.167	VV	685	8714	0.09%	0.004%
245	14.171	14.167	14.179	VV	474	3369	0.03%	0.002%
246	14.190	14.179	14.199	VV	635	5945	0.06%	0.003%

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247	14.201	14.199	14.207	VV	547	2494	0.02%	0.001%
248	14.211	14.207	14.234	VV	560	6331	0.06%	0.003%
249	14.246	14.234	14.271	VV	563	8422	0.08%	0.004%
250	14.301	14.271	14.319	VV	725	14645	0.14%	0.007%
251	14.330	14.319	14.358	VV	770	13114	0.13%	0.006%
252	14.371	14.358	14.387	VV	495	7583	0.07%	0.004%
253	14.392	14.387	14.399	VV	464	2475	0.02%	0.001%
254	14.437	14.399	14.455	VV	753429	9421292	92.27%	4.656%
255	14.479	14.455	14.507	VV	755607	9223421	90.33%	4.559%
256	14.525	14.507	14.666	VV	81419	1467633	14.37%	0.725%
257	14.670	14.666	14.676	VV	1500	7995	0.08%	0.004%
258	14.698	14.676	14.735	VV	1845	47661	0.47%	0.024%
259	14.740	14.735	14.764	VV	1034	14225	0.14%	0.007%
260	14.769	14.764	14.789	VV	757	9427	0.09%	0.005%
261	14.798	14.789	14.816	VV	620	8364	0.08%	0.004%
262	14.832	14.816	14.853	VV	783	13629	0.13%	0.007%
263	14.867	14.853	14.871	VV	681	6814	0.07%	0.003%
264	14.903	14.871	14.975	VV	14292	272159	2.67%	0.135%
265	14.981	14.975	15.017	VV	1413	28794	0.28%	0.014%
266	15.060	15.017	15.081	VV	2602	53162	0.52%	0.026%
267	15.087	15.081	15.096	VV	737	5700	0.06%	0.003%
268	15.105	15.096	15.120	VV	716	5931	0.06%	0.003%
269	15.126	15.120	15.137	VV	302	1937	0.02%	0.001%
270	15.147	15.137	15.165	VV	315	3066	0.03%	0.002%
271	15.175	15.165	15.185	VV	413	3612	0.04%	0.002%
272	15.242	15.185	15.260	VV	1271	28512	0.28%	0.014%
273	15.264	15.260	15.274	VV	664	4142	0.04%	0.002%
274	15.275	15.274	15.286	VV	493	2798	0.03%	0.001%
275	15.288	15.286	15.295	VV	401	1705	0.02%	0.001%
276	15.319	15.295	15.327	VV	506	7068	0.07%	0.003%
277	15.338	15.327	15.345	VV	665	5002	0.05%	0.002%
278	15.352	15.345	15.357	VV	639	4055	0.04%	0.002%
279	15.361	15.357	15.368	VV	621	3422	0.03%	0.002%
280	15.388	15.368	15.394	VV	734	9750	0.10%	0.005%
281	15.397	15.394	15.408	VV	869	5906	0.06%	0.003%
282	15.420	15.408	15.467	VV	819	24666	0.24%	0.012%
283	15.504	15.467	15.512	VV	1496	23618	0.23%	0.012%
284	15.542	15.512	15.576	VV	59045	774946	7.59%	0.383%
285	15.584	15.576	15.618	VV	716	13705	0.13%	0.007%
286	15.633	15.618	15.654	VV	450	5322	0.05%	0.003%
287	15.660	15.654	15.678	VV	237	1702	0.02%	0.001%
288	15.699	15.678	15.745	VV	1497	21848	0.21%	0.011%
289	15.747	15.745	15.777	VV	327	3844	0.04%	0.002%
290	15.784	15.777	15.793	VV	436	2429	0.02%	0.001%
291	15.805	15.793	15.813	VV	341	2646	0.03%	0.001%
292	15.827	15.813	15.856	VV	465	7662	0.08%	0.004%
293	15.863	15.856	15.874	VV	241	2324	0.02%	0.001%
294	15.913	15.874	15.949	VV	1507	34267	0.34%	0.017%
295	15.987	15.949	16.001	VV	709435	9405943	92.12%	4.649%
296	16.022	16.001	16.084	VV	779727	9614362	94.16%	4.752%
297	16.099	16.084	16.137	VV	6515	135808	1.33%	0.067%
298	16.141	16.137	16.174	VV	2011	38155	0.37%	0.019%
299	16.180	16.174	16.186	VV	1603	11122	0.11%	0.005%

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300	16.191	16.186	16.205	VV	1655	17622	0.17%	0.009%
301	16.220	16.205	16.248	VV	1716	38866	0.38%	0.019%
302	16.266	16.248	16.299	VV	3050	55816	0.55%	0.028%
303	16.302	16.299	16.314	VV	1126	8630	0.08%	0.004%
304	16.362	16.314	16.458	VV	658504	9102311	89.15%	4.499%
305	16.485	16.458	16.512	VV	63370	924994	9.06%	0.457%
306	16.528	16.512	16.561	VV	10257	168263	1.65%	0.083%
307	16.565	16.561	16.617	VV	2021	51064	0.50%	0.025%
308	16.622	16.617	16.657	VV	1167	23795	0.23%	0.012%
309	16.665	16.657	16.675	VV	845	8655	0.08%	0.004%
310	16.681	16.675	16.683	VV	740	3579	0.04%	0.002%
311	16.697	16.683	16.718	VV	996	17435	0.17%	0.009%
312	16.723	16.718	16.725	VV	769	3414	0.03%	0.002%
313	16.730	16.725	16.737	VV	818	5004	0.05%	0.002%
314	16.739	16.737	16.750	VV	708	4898	0.05%	0.002%
315	16.753	16.750	16.765	VV	781	5759	0.06%	0.003%
316	16.795	16.765	16.828	VV	1794	42802	0.42%	0.021%
317	16.855	16.828	16.900	VV	1463	43524	0.43%	0.022%
318	16.932	16.900	16.997	VV	2508	67778	0.66%	0.033%
319	17.012	16.997	17.044	VV	989	23107	0.23%	0.011%
320	17.049	17.044	17.078	VV	931	16940	0.17%	0.008%
321	17.083	17.078	17.096	VV	843	7437	0.07%	0.004%
322	17.113	17.096	17.125	VV	884	13431	0.13%	0.007%
323	17.144	17.125	17.154	VV	860	13634	0.13%	0.007%
324	17.164	17.154	17.181	VV	1187	15224	0.15%	0.008%
325	17.185	17.181	17.191	VV	902	5378	0.05%	0.003%
326	17.198	17.191	17.207	VV	956	8053	0.08%	0.004%
327	17.234	17.207	17.241	VV	1132	20298	0.20%	0.010%
328	17.256	17.241	17.288	VV	1546	35348	0.35%	0.017%
329	17.293	17.288	17.312	VV	1234	15198	0.15%	0.008%
330	17.370	17.312	17.407	VV	56292	802346	7.86%	0.397%
331	17.414	17.407	17.424	VV	1160	9965	0.10%	0.005%
332	17.457	17.424	17.486	VV	3058	64042	0.63%	0.032%
333	17.497	17.486	17.513	VV	1082	16320	0.16%	0.008%
334	17.519	17.513	17.545	VV	1046	17432	0.17%	0.009%
335	17.572	17.545	17.590	VV	1071	24613	0.24%	0.012%
336	17.618	17.590	17.638	VV	1038	26047	0.26%	0.013%
337	17.663	17.638	17.677	VV	1240	25906	0.25%	0.013%
338	17.734	17.677	17.746	VV	646147	8963404	87.79%	4.430%
339	17.767	17.746	17.943	VV	585316	9337294	91.45%	4.615%
340	17.984	17.943	18.154	VV	596885	9344801	91.52%	4.619%
341	18.195	18.154	18.229	VV	55883	887184	8.69%	0.438%
342	18.236	18.229	18.262	VV	3659	66226	0.65%	0.033%
343	18.297	18.262	18.300	VBA	4578	84196	0.82%	0.042%

Sum of corrected areas: 202333013

Aromatic EPH 021125.M Sat Mar 01 04:02:09 2025

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Manual Integration Report

Sequence:	FC022525AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166863BS	FC068297.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:04 AM	Ankita	3/5/2025 9:16:08	Peak Integrated by Software
PB166863BS	FC068297.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:04 AM	Ankita	3/5/2025 9:16:08	Peak Integrated by Software
PB166863BSD	FC068298.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:05 AM	Ankita	3/5/2025 9:16:10	Peak Integrated by Software
PB166863BSD	FC068298.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:05 AM	Ankita	3/5/2025 9:16:10	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068302.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:07 AM	Ankita	3/5/2025 9:16:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068302.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:07 AM	Ankita	3/5/2025 9:16:11	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC022825AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1447-01	FC068339.D	1-chlorooctadecane (SURR)	yogesh	3/5/2025 7:49:39 AM	Ankita	3/5/2025 9:17:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD021125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049077.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:10 AM	Ankita	2/11/2025 9:13:40	Peak Integrated by Software
20 PPM AROMATIC HC	FD049079.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:12 AM	Ankita	2/11/2025 9:13:41	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD022525AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166863BSD	FD049103.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/26/2025 8:35:49 AM	Ankita	2/26/2025 9:12:19	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD022825AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049129.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	3/3/2025 8:01:30 AM	Ankita	3/4/2025 12:54:35	Peak Integrated by Software
Q1421-01D	FD049141.D	2-Flurobiphenyl (SURR)	yogesh	3/3/2025 8:01:31 AM	Ankita	3/4/2025 12:54:36	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068250.D	10 Feb 2025 15:12	YP/AJ	Ok
2	I.BLK	FC068251.D	10 Feb 2025 15:48	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068252.D	10 Feb 2025 16:24	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068253.D	10 Feb 2025 17:01	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068254.D	10 Feb 2025 17:38	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068255.D	10 Feb 2025 18:14	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068256.D	10 Feb 2025 18:50	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068257.D	10 Feb 2025 19:26	YP/AJ	Ok
9	I.BLK	FC068258.D	10 Feb 2025 20:39	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068259.D	10 Feb 2025 21:16	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022525AL

Review By	yogesh	Review On	2/25/2025 12:19:25 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:03:48 AM		
SubDirectory	FC022525AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068293.D	25 Feb 2025 09:16	YP/AJ	Ok
2	I.BLK	FC068294.D	25 Feb 2025 10:06	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068295.D	25 Feb 2025 11:30	YP/AJ	Ok
4	PB166863BL	FC068296.D	25 Feb 2025 15:47	YP/AJ	Ok
5	PB166863BS	FC068297.D	25 Feb 2025 16:23	YP/AJ	Ok,M
6	PB166863BSD	FC068298.D	25 Feb 2025 16:59	YP/AJ	Ok,M
7	Q1415-05	FC068299.D	25 Feb 2025 17:36	YP/AJ	Ok
8	Q1415-06	FC068300.D	25 Feb 2025 18:13	YP/AJ	Ok
9	I.BLK	FC068301.D	25 Feb 2025 18:49	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068302.D	25 Feb 2025 19:26	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068319.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FC068320.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068321.D	28 Feb 2025 10:23	YP/AJ	Ok
4	PB166923BL	FC068322.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FC068323.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FC068324.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FC068325.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FC068326.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FC068327.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FC068328.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FC068329.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FC068330.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC068331.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FC068332.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FC068333.D	28 Feb 2025 18:20	YP/AJ	Ok
16	Q1421-02	FC068334.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FC068335.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FC068336.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FC068337.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FC068338.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FC068339.D	28 Feb 2025 21:59	YP/AJ	Dilution

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FC068340.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC068341.D	28 Feb 2025 23:50	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049070.D	10 Feb 2025 12:09	YP/AJ	Ok
2	I.BLK	FD049071.D	10 Feb 2025 12:45	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049072.D	10 Feb 2025 13:22	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049073.D	10 Feb 2025 13:58	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049074.D	10 Feb 2025 14:35	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049075.D	10 Feb 2025 15:12	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049076.D	10 Feb 2025 15:48	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049077.D	10 Feb 2025 16:24	YP/AJ	Ok,M
9	I.BLK	FD049078.D	10 Feb 2025 17:01	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049079.D	10 Feb 2025 17:38	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022525AR

Review By	yogesh	Review On	2/25/2025 12:20:16 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:12:22 AM		
SubDirectory	FD022525AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049098.D	25 Feb 2025 09:16	YP/AJ	Ok
2	I.BLK	FD049099.D	25 Feb 2025 10:06	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049100.D	25 Feb 2025 11:30	YP/AJ	Ok
4	PB166863BL	FD049101.D	25 Feb 2025 15:47	YP/AJ	Ok
5	PB166863BS	FD049102.D	25 Feb 2025 16:23	YP/AJ	Ok
6	PB166863BSD	FD049103.D	25 Feb 2025 16:59	YP/AJ	Ok,M
7	Q1415-05	FD049104.D	25 Feb 2025 17:36	YP/AJ	Ok
8	Q1415-06	FD049105.D	25 Feb 2025 18:13	YP/AJ	Ok
9	I.BLK	FD049106.D	25 Feb 2025 18:49	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049107.D	25 Feb 2025 19:26	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049127.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FD049128.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049129.D	28 Feb 2025 10:23	YP/AJ	Ok,M
4	PB166923BL	FD049130.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FD049131.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FD049132.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FD049133.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FD049134.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FD049135.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FD049136.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FD049137.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FD049138.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM AROMATIC HC STD	FD049139.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FD049140.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FD049141.D	28 Feb 2025 18:20	YP/AJ	Ok,M
16	Q1421-02	FD049142.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FD049143.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FD049144.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FD049145.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FD049146.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FD049147.D	28 Feb 2025 21:59	YP/AJ	Dilution

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FD049148.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM AROMATIC HC STD	FD049149.D	28 Feb 2025 23:50	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068250.D	10 Feb 2025 15:12		YP/AJ	Ok
2	I.BLK	I.BLK	FC068251.D	10 Feb 2025 15:48		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068252.D	10 Feb 2025 16:24		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068253.D	10 Feb 2025 17:01		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068254.D	10 Feb 2025 17:38		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068255.D	10 Feb 2025 18:14		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068256.D	10 Feb 2025 18:50		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068257.D	10 Feb 2025 19:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068258.D	10 Feb 2025 20:39		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068259.D	10 Feb 2025 21:16		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022525AL

Review By	yogesh	Review On	2/25/2025 12:19:25 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:03:48 AM		
SubDirectory	FC022525AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068293.D	25 Feb 2025 09:16		YP/AJ	Ok
2	I.BLK	I.BLK	FC068294.D	25 Feb 2025 10:06		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068295.D	25 Feb 2025 11:30		YP/AJ	Ok
4	PB166863BL	PB166863BL	FC068296.D	25 Feb 2025 15:47		YP/AJ	Ok
5	PB166863BS	PB166863BS	FC068297.D	25 Feb 2025 16:23		YP/AJ	Ok,M
6	PB166863BSD	PB166863BSD	FC068298.D	25 Feb 2025 16:59		YP/AJ	Ok,M
7	Q1415-05	FB02222025	FC068299.D	25 Feb 2025 17:36		YP/AJ	Ok
8	Q1415-06	B-173-GW01	FC068300.D	25 Feb 2025 18:13		YP/AJ	Ok
9	I.BLK	I.BLK	FC068301.D	25 Feb 2025 18:49		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068302.D	25 Feb 2025 19:26		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068319.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FC068320.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068321.D	28 Feb 2025 10:23		YP/AJ	Ok
4	PB166923BL	PB166923BL	FC068322.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FC068323.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FC068324.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FC068325.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FC068326.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FC068327.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FC068328.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FC068329.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FC068330.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068331.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FC068332.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FC068333.D	28 Feb 2025 18:20		YP/AJ	Ok
16	Q1421-02	P001-CLAY-CF01-01M	FC068334.D	28 Feb 2025 18:56	FC068332.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01M	FC068335.D	28 Feb 2025 19:32	FC068332.D!FC068334.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FC068336.D	28 Feb 2025 20:09		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1422-01	B-154-SB01	FC068337.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FC068338.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FC068339.D	28 Feb 2025 21:59	need 10x & 100x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FC068340.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068341.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049070.D	10 Feb 2025 12:09		YP/AJ	Ok
2	I.BLK	I.BLK	FD049071.D	10 Feb 2025 12:45		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049072.D	10 Feb 2025 13:22		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049073.D	10 Feb 2025 13:58		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049074.D	10 Feb 2025 14:35		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049075.D	10 Feb 2025 15:12		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049076.D	10 Feb 2025 15:48		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049077.D	10 Feb 2025 16:24		YP/AJ	Ok,M
9	I.BLK	I.BLK	FD049078.D	10 Feb 2025 17:01		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049079.D	10 Feb 2025 17:38		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022525AR

Review By	yogesh	Review On	2/25/2025 12:20:16 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:12:22 AM		
SubDirectory	FD022525AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049098.D	25 Feb 2025 09:16		YP/AJ	Ok
2	I.BLK	I.BLK	FD049099.D	25 Feb 2025 10:06		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049100.D	25 Feb 2025 11:30		YP/AJ	Ok
4	PB166863BL	PB166863BL	FD049101.D	25 Feb 2025 15:47		YP/AJ	Ok
5	PB166863BS	PB166863BS	FD049102.D	25 Feb 2025 16:23		YP/AJ	Ok
6	PB166863BSD	PB166863BSD	FD049103.D	25 Feb 2025 16:59		YP/AJ	Ok,M
7	Q1415-05	FB02222025	FD049104.D	25 Feb 2025 17:36		YP/AJ	Ok
8	Q1415-06	B-173-GW01	FD049105.D	25 Feb 2025 18:13		YP/AJ	Ok
9	I.BLK	I.BLK	FD049106.D	25 Feb 2025 18:49		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049107.D	25 Feb 2025 19:26		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049127.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FD049128.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049129.D	28 Feb 2025 10:23		YP/AJ	Ok,M
4	PB166923BL	PB166923BL	FD049130.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FD049131.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FD049132.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FD049133.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FD049134.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FD049135.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FD049136.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FD049137.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FD049138.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049139.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FD049140.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FD049141.D	28 Feb 2025 18:20		YP/AJ	Ok,M
16	Q1421-02	P001-CLAY-CF01-01M	FD049142.D	28 Feb 2025 18:56	FD049140.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01M	FD049143.D	28 Feb 2025 19:32	FD049140.D!FD049142.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FD049144.D	28 Feb 2025 20:09		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1422-01	B-154-SB01	FD049145.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FD049146.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FD049147.D	28 Feb 2025 21:59	need 25x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FD049148.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049149.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166863

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	02/25/2025
Matrix :	Water			**Extraction Start Time :**	08:43
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	02/25/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	15:40
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24161
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2589
Hexane	N/A	E3877
6N HCL	N/A	EP2569
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (ESG Lab)	Y.P. Pest WC3.
15:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166863

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166863BL	PB166863BL	EPH	1000	<2	RUPESH	ritesh	2			SEP-1
PB166863BS	PB166863BS	EPH	1000	<2	RUPESH	ritesh	2			2
PB166863BSD	PB166863BSD	EPH	1000	<2	RUPESH	ritesh	2			3
Q1415-05	FB02222025	EPH	960	<2	RUPESH	ritesh	2	F		4
Q1415-06	B-173-GW01	EPH	900	<2	RUPESH	ritesh	2	H		5

RS 2/25

* **Extracts relinquished on the same date as received.**

166863
8:43

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1415EPH **WorkList ID :** 187871 **Department :** Extraction **Date :** 02-25-2025 08:37:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-05	FB02222025	Water	EPH	1:1 HCl to pH < 2	PORT06	N31	02/22/2025	NJEPH
Q1415-06	B-173-GW01	Water	EPH	1:1 HCl to pH < 2	PORT06	N31	02/22/2025	NJEPH

Date/Time 2/25/25 8:40
Raw Sample Received by: RS (Ext lab)
Raw Sample Relinquished by: CM SM

Page 1 of 1

Date/Time 2/25/25 9:10
Raw Sample Received by: CM SM
Raw Sample Relinquished by: RS (Ext lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166923

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	02/27/2025
Matrix :	Solid			**Extraction Start Time :**	13:10
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	02/28/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	10:45
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2590
Sand	N/A	E2865
Hexane	N/A	E3877
Methylene Chloride	N/A	E3878
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/28/25	RS (Ext-lab)	Y.P.Pest1PCR
10:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166923

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/28/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166923BL	PB166923BL	EPH	30.02	N/A	ritesh	Evelyn	2			U2-1
PB166923BS	PB166923BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB166923BSD	PB166923BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q1415-01	B-163-SB01	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
Q1415-02	B-172-SB01	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
Q1415-03	B-163-SB02	EPH	30.03	N/A	ritesh	Evelyn	2	E		6
Q1415-04	B-172-SB02	EPH	30.08	N/A	ritesh	Evelyn	2	E		U6-1
Q1421-01	P001-CLAY-CF01-01	EPH	30.05	N/A	ritesh	Evelyn	2	E		2
Q1421-01DUP	P001-CLAY-CF01-01DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		3
Q1421-02	Q1421-01MS	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1421-03	Q1421-01MSD	EPH	30.03	N/A	ritesh	Evelyn	2	E		5
Q1421-07	P001-CLAY-CF01-02	EPH	30.06	N/A	ritesh	Evelyn	2	F		6
Q1421-09	P001-CLAY-CF02-01	EPH	30.02	N/A	ritesh	Evelyn	2	E		U3-1
Q1422-01	B-154-SB01	EPH	30.07	N/A	ritesh	Evelyn	2	E		2
Q1422-02	B-154-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	E		3
Q1447-01	WC1	EPH	30.01	N/A	ritesh	Evelyn	2	B		4

RS 2/28

* **Extracts relinquished on the same date as received.**

16692-
13:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1447 **WorkList ID :** 187944 **Department :** Extraction **Date :** 02-27-2025 13:05:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-02	B-172-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-03	B-163-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-04	B-172-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1421-01	P001-CLAY-CF01-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-02	Q1421-01MS	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-03	Q1421-01MSD	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-07	P001-CLAY-CF01-02	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-09	P001-CLAY-CF02-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1422-01	B-154-SB01	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1422-02	B-154-SB02	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1447-01	WC1	Solid	EPH	Cool 4 deg C	GENV01	H33	02/23/2025	NJEPH

Date/Time 2/27/25 13:05
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by: CP SM

Date/Time 2/27/25 13:30
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ext-Lab)

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LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-02	**B-172-SB01**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-03	**B-163-SB02**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-04	**B-172-SB02**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-05	**FB02222025**	**Water**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/25/25	02/25/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-06	**B-173-GW01**	**Water**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/25/25	02/25/25	
			PCB	8082A		02/25/25	02/25/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1415 **Order ID:** Q1415

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-163-SB01								
Q1415-01	B-163-SB01	SOIL	Aluminum	6850		2.58	5.36	mg/Kg
Q1415-01	B-163-SB01	SOIL	Arsenic	2.00		0.31	1.07	mg/Kg
Q1415-01	B-163-SB01	SOIL	Barium	45.4		0.69	5.36	mg/Kg
Q1415-01	B-163-SB01	SOIL	Beryllium	0.48		0.013	0.32	mg/Kg
Q1415-01	B-163-SB01	SOIL	Calcium	978		3.00	107	mg/Kg
Q1415-01	B-163-SB01	SOIL	Chromium	17.6		0.058	0.54	mg/Kg
Q1415-01	B-163-SB01	SOIL	Cobalt	33.0		0.062	1.61	mg/Kg
Q1415-01	B-163-SB01	SOIL	Copper	39.9		0.50	1.07	mg/Kg
Q1415-01	B-163-SB01	SOIL	Iron	14400		2.88	5.36	mg/Kg
Q1415-01	B-163-SB01	SOIL	Lead	10.6		0.16	0.64	mg/Kg
Q1415-01	B-163-SB01	SOIL	Magnesium	2600		3.67	107	mg/Kg
Q1415-01	B-163-SB01	SOIL	Manganese	181		0.076	1.07	mg/Kg
Q1415-01	B-163-SB01	SOIL	Mercury	0.011	J	0.0070	0.016	mg/Kg
Q1415-01	B-163-SB01	SOIL	Nickel	79.2		0.096	2.14	mg/Kg
Q1415-01	B-163-SB01	SOIL	Potassium	870		30.7	107	mg/Kg
Q1415-01	B-163-SB01	SOIL	Selenium	0.47	J	0.35	1.07	mg/Kg
Q1415-01	B-163-SB01	SOIL	Sodium	78.7	J	38.7	107	mg/Kg
Q1415-01	B-163-SB01	SOIL	Vanadium	15.3		0.29	2.14	mg/Kg
Q1415-01	B-163-SB01	SOIL	Zinc	34.4		0.12	2.14	mg/Kg
Client ID : B-172-SB01								
Q1415-02	B-172-SB01	SOIL	Aluminum	6360		2.34	4.85	mg/Kg
Q1415-02	B-172-SB01	SOIL	Arsenic	1.93		0.28	0.97	mg/Kg
Q1415-02	B-172-SB01	SOIL	Barium	47.5		0.62	4.85	mg/Kg
Q1415-02	B-172-SB01	SOIL	Beryllium	0.44		0.012	0.29	mg/Kg
Q1415-02	B-172-SB01	SOIL	Calcium	1120		2.72	97.0	mg/Kg
Q1415-02	B-172-SB01	SOIL	Chromium	13.8		0.052	0.49	mg/Kg
Q1415-02	B-172-SB01	SOIL	Cobalt	7.65		0.056	1.46	mg/Kg
Q1415-02	B-172-SB01	SOIL	Copper	19.3		0.46	0.97	mg/Kg
Q1415-02	B-172-SB01	SOIL	Iron	13300		2.61	4.85	mg/Kg
Q1415-02	B-172-SB01	SOIL	Lead	9.02		0.15	0.58	mg/Kg
Q1415-02	B-172-SB01	SOIL	Magnesium	2670		3.33	97.0	mg/Kg
Q1415-02	B-172-SB01	SOIL	Manganese	317	D	0.14	1.94	mg/Kg
Q1415-02	B-172-SB01	SOIL	Nickel	13.9		0.087	1.94	mg/Kg
Q1415-02	B-172-SB01	SOIL	Potassium	810		27.8	97.0	mg/Kg
Q1415-02	B-172-SB01	SOIL	Sodium	73.8	J	35.0	97.0	mg/Kg
Q1415-02	B-172-SB01	SOIL	Vanadium	24.3		0.26	1.94	mg/Kg
Q1415-02	B-172-SB01	SOIL	Zinc	30.6		0.11	1.94	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1415 **Order ID:** Q1415

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-163-SB02								
Q1415-03	B-163-SB02	SOIL	Aluminum	6050		2.92	6.06	mg/Kg
Q1415-03	B-163-SB02	SOIL	Arsenic	3.67		0.35	1.21	mg/Kg
Q1415-03	B-163-SB02	SOIL	Barium	34.9		0.78	6.06	mg/Kg
Q1415-03	B-163-SB02	SOIL	Beryllium	0.46		0.015	0.36	mg/Kg
Q1415-03	B-163-SB02	SOIL	Calcium	1220		3.39	121	mg/Kg
Q1415-03	B-163-SB02	SOIL	Chromium	19.0		0.065	0.61	mg/Kg
Q1415-03	B-163-SB02	SOIL	Cobalt	7.70		0.070	1.82	mg/Kg
Q1415-03	B-163-SB02	SOIL	Copper	60.7		0.57	1.21	mg/Kg
Q1415-03	B-163-SB02	SOIL	Iron	17500		3.26	6.06	mg/Kg
Q1415-03	B-163-SB02	SOIL	Lead	22.3		0.18	0.73	mg/Kg
Q1415-03	B-163-SB02	SOIL	Magnesium	2720		4.16	121	mg/Kg
Q1415-03	B-163-SB02	SOIL	Manganese	251		0.086	1.21	mg/Kg
Q1415-03	B-163-SB02	SOIL	Mercury	0.042		0.0080	0.019	mg/Kg
Q1415-03	B-163-SB02	SOIL	Nickel	17.6		0.11	2.42	mg/Kg
Q1415-03	B-163-SB02	SOIL	Potassium	992		34.8	121	mg/Kg
Q1415-03	B-163-SB02	SOIL	Selenium	0.47	J	0.40	1.21	mg/Kg
Q1415-03	B-163-SB02	SOIL	Sodium	133		43.7	121	mg/Kg
Q1415-03	B-163-SB02	SOIL	Vanadium	19.0		0.33	2.42	mg/Kg
Q1415-03	B-163-SB02	SOIL	Zinc	117		0.13	2.42	mg/Kg
Client ID : B-172-SB02								
Q1415-04	B-172-SB02	SOIL	Aluminum	7340		2.39	4.95	mg/Kg
Q1415-04	B-172-SB02	SOIL	Arsenic	1.97		0.29	0.99	mg/Kg
Q1415-04	B-172-SB02	SOIL	Barium	45.4		0.63	4.95	mg/Kg
Q1415-04	B-172-SB02	SOIL	Beryllium	0.50		0.012	0.30	mg/Kg
Q1415-04	B-172-SB02	SOIL	Calcium	869		2.77	99.1	mg/Kg
Q1415-04	B-172-SB02	SOIL	Chromium	14.9		0.054	0.50	mg/Kg
Q1415-04	B-172-SB02	SOIL	Cobalt	7.08		0.057	1.49	mg/Kg
Q1415-04	B-172-SB02	SOIL	Copper	16.3		0.47	0.99	mg/Kg
Q1415-04	B-172-SB02	SOIL	Iron	14200		2.67	4.95	mg/Kg
Q1415-04	B-172-SB02	SOIL	Lead	8.95		0.15	0.60	mg/Kg
Q1415-04	B-172-SB02	SOIL	Magnesium	2810		3.40	99.1	mg/Kg
Q1415-04	B-172-SB02	SOIL	Manganese	175		0.070	0.99	mg/Kg
Q1415-04	B-172-SB02	SOIL	Mercury	0.011	J	0.0070	0.015	mg/Kg
Q1415-04	B-172-SB02	SOIL	Nickel	14.5		0.089	1.98	mg/Kg
Q1415-04	B-172-SB02	SOIL	Potassium	929		28.4	99.1	mg/Kg
Q1415-04	B-172-SB02	SOIL	Selenium	0.45	J	0.33	0.99	mg/Kg
Q1415-04	B-172-SB02	SOIL	Sodium	76.7	J	35.8	99.1	mg/Kg
Q1415-04	B-172-SB02	SOIL	Vanadium	16.5		0.27	1.98	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1415 **Order ID:** Q1415

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1415-04	B-172-SB02	SOIL	Zinc	32.6		0.11	1.98	mg/Kg
Client ID :	**FB02222025**							
Q1415-05	FB02222025	Water	Calcium	65.6	J	33.0	1000	ug/L
Q1415-05	FB02222025	Water	Sodium	277	J	237	1000	ug/L
Q1415-05	FB02222025	Water	Zinc	3.10	J	1.75	20.0	ug/L
Client ID :	**B-173-GW01**							
Q1415-06	B-173-GW01	Water	Aluminum	42100		56.6	100	ug/L
Q1415-06	B-173-GW01	Water	Arsenic	16.1	J	6.96	20.0	ug/L
Q1415-06	B-173-GW01	Water	Barium	508		12.6	100	ug/L
Q1415-06	B-173-GW01	Water	Beryllium	3.13	J	0.26	6.00	ug/L
Q1415-06	B-173-GW01	Water	Calcium	99700		66.0	2000	ug/L
Q1415-06	B-173-GW01	Water	Chromium	187		1.32	10.0	ug/L
Q1415-06	B-173-GW01	Water	Cobalt	40.0		1.00	30.0	ug/L
Q1415-06	B-173-GW01	Water	Copper	290		14.1	20.0	ug/L
Q1415-06	B-173-GW01	Water	Iron	77800		37.0	100	ug/L
Q1415-06	B-173-GW01	Water	Lead	116		7.02	12.0	ug/L
Q1415-06	B-173-GW01	Water	Magnesium	68300		78.8	2000	ug/L
Q1415-06	B-173-GW01	Water	Manganese	2580		2.92	20.0	ug/L
Q1415-06	B-173-GW01	Water	Mercury	1.10		0.081	0.20	ug/L
Q1415-06	B-173-GW01	Water	Nickel	130		1.70	40.0	ug/L
Q1415-06	B-173-GW01	Water	Potassium	50900		1370	2000	ug/L
Q1415-06	B-173-GW01	Water	Sodium	525000		474	2000	ug/L
Q1415-06	B-173-GW01	Water	Vanadium	96.3		6.12	40.0	ug/L
Q1415-06	B-173-GW01	Water	Zinc	323		3.50	40.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6850		1	2.58	5.36	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-36-0	Antimony	0.16	UN	1	0.16	2.68	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-38-2	Arsenic	2.00		1	0.31	1.07	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-39-3	Barium	45.4		1	0.69	5.36	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-41-7	Beryllium	0.48		1	0.013	0.32	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-43-9	Cadmium	0.017	U	1	0.017	0.32	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-70-2	Calcium	978		1	3.00	107	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-47-3	Chromium	17.6		1	0.058	0.54	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-48-4	Cobalt	33.0		1	0.062	1.61	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-50-8	Copper	39.9		1	0.50	1.07	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7439-89-6	Iron	14400		1	2.88	5.36	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7439-92-1	Lead	10.6		1	0.16	0.64	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7439-95-4	Magnesium	2600		1	3.67	107	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7439-96-5	Manganese	181	N	1	0.076	1.07	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7439-97-6	Mercury	0.011	JN	1	0.0070	0.016	mg/Kg	02/25/25 13:30	02/26/25 11:36	SW7471B	
7440-02-0	Nickel	79.2		1	0.096	2.14	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-09-7	Potassium	870		1	30.7	107	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7782-49-2	Selenium	0.47	J	1	0.35	1.07	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-22-4	Silver	0.056	U	1	0.056	0.54	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-23-5	Sodium	78.7	J	1	38.7	107	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-28-0	Thallium	0.47	U	1	0.47	2.14	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-62-2	Vanadium	15.3		1	0.29	2.14	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050
7440-66-6	Zinc	34.4		1	0.12	2.14	mg/Kg	02/24/25 12:05	03/07/25 11:16	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6360		1	2.34	4.85	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.43	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-38-2	Arsenic	1.93		1	0.28	0.97	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-39-3	Barium	47.5		1	0.62	4.85	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-41-7	Beryllium	0.44		1	0.012	0.29	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.29	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-70-2	Calcium	1120		1	2.72	97.0	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-47-3	Chromium	13.8		1	0.052	0.49	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-48-4	Cobalt	7.65		1	0.056	1.46	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-50-8	Copper	19.3		1	0.46	0.97	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7439-89-6	Iron	13300		1	2.61	4.85	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7439-92-1	Lead	9.02		1	0.15	0.58	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7439-95-4	Magnesium	2670		1	3.33	97.0	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7439-96-5	Manganese	317	DN	2	0.14	1.94	mg/Kg	02/24/25 12:05	03/10/25 16:04	SW6010	SW3050
7439-97-6	Mercury	0.0070	UN	1	0.0070	0.016	mg/Kg	02/25/25 13:30	02/26/25 11:39	SW7471B	
7440-02-0	Nickel	13.9		1	0.087	1.94	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-09-7	Potassium	810		1	27.8	97.0	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7782-49-2	Selenium	0.32	U	1	0.32	0.97	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-22-4	Silver	0.050	U	1	0.050	0.49	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-23-5	Sodium	73.8	J	1	35.0	97.0	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-28-0	Thallium	0.43	U	1	0.43	1.94	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-62-2	Vanadium	24.3		1	0.26	1.94	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050
7440-66-6	Zinc	30.6		1	0.11	1.94	mg/Kg	02/24/25 12:05	03/07/25 11:20	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	72.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6050		1	2.92	6.06	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-36-0	Antimony	0.18	UN	1	0.18	3.03	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-38-2	Arsenic	3.67		1	0.35	1.21	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-39-3	Barium	34.9		1	0.78	6.06	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-41-7	Beryllium	0.46		1	0.015	0.36	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-43-9	Cadmium	0.019	U	1	0.019	0.36	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-70-2	Calcium	1220		1	3.39	121	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-47-3	Chromium	19.0		1	0.065	0.61	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-48-4	Cobalt	7.70		1	0.070	1.82	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-50-8	Copper	60.7		1	0.57	1.21	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7439-89-6	Iron	17500		1	3.26	6.06	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7439-92-1	Lead	22.3		1	0.18	0.73	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7439-95-4	Magnesium	2720		1	4.16	121	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7439-96-5	Manganese	251	N	1	0.086	1.21	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7439-97-6	Mercury	0.042	N	1	0.0080	0.019	mg/Kg	02/25/25 13:30	02/26/25 11:41	SW7471B	
7440-02-0	Nickel	17.6		1	0.11	2.42	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-09-7	Potassium	992		1	34.8	121	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7782-49-2	Selenium	0.47	J	1	0.40	1.21	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-22-4	Silver	0.063	U	1	0.063	0.61	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-23-5	Sodium	133		1	43.7	121	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-28-0	Thallium	0.53	U	1	0.53	2.42	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-62-2	Vanadium	19.0		1	0.33	2.42	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050
7440-66-6	Zinc	117		1	0.13	2.42	mg/Kg	02/24/25 12:05	03/07/25 11:24	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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J = Estimated Value
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Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7340		1	2.39	4.95	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.48	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-38-2	Arsenic	1.97		1	0.29	0.99	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-39-3	Barium	45.4		1	0.63	4.95	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-41-7	Beryllium	0.50		1	0.012	0.30	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.30	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-70-2	Calcium	869		1	2.77	99.1	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-47-3	Chromium	14.9		1	0.054	0.50	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-48-4	Cobalt	7.08		1	0.057	1.49	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-50-8	Copper	16.3		1	0.47	0.99	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7439-89-6	Iron	14200		1	2.67	4.95	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7439-92-1	Lead	8.95		1	0.15	0.60	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7439-95-4	Magnesium	2810		1	3.40	99.1	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7439-96-5	Manganese	175	N	1	0.070	0.99	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7439-97-6	Mercury	0.011	JN	1	0.0070	0.015	mg/Kg	02/25/25 13:30	02/26/25 11:43	SW7471B	
7440-02-0	Nickel	14.5		1	0.089	1.98	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-09-7	Potassium	929		1	28.4	99.1	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7782-49-2	Selenium	0.45	J	1	0.33	0.99	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-22-4	Silver	0.052	U	1	0.052	0.50	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-23-5	Sodium	76.7	J	1	35.8	99.1	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-28-0	Thallium	0.44	U	1	0.44	1.98	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-62-2	Vanadium	16.5		1	0.27	1.98	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050
7440-66-6	Zinc	32.6		1	0.11	1.98	mg/Kg	02/24/25 12:05	03/07/25 11:28	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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J = Estimated Value
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OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	28.3	U	1	28.3	50.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-36-0	Antimony	2.06	UN	1	2.06	25.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-39-3	Barium	6.28	U	1	6.28	50.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-70-2	Calcium	65.6	J	1	33.0	1000	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-47-3	Chromium	0.66	U	1	0.66	5.00	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7439-89-6	Iron	18.5	U	1	18.5	50.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7439-95-4	Magnesium	39.4	U	1	39.4	1000	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7439-96-5	Manganese	1.46	U	1	1.46	10.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	02/25/25 13:10	02/26/25 09:15	SW7470A	
7440-02-0	Nickel	0.85	U	1	0.85	20.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-09-7	Potassium	685	U	1	685	1000	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-23-5	Sodium	277	J	1	237	1000	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010
7440-66-6	Zinc	3.10	J	1	1.75	20.0	ug/L	02/25/25 09:10	03/10/25 13:17	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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OR = Over Range
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	42100		1	56.6	100	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-36-0	Antimony	4.12	UN	1	4.12	50.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-38-2	Arsenic	16.1	J	1	6.96	20.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-39-3	Barium	508		1	12.6	100	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-41-7	Beryllium	3.13	J	1	0.26	6.00	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-43-9	Cadmium	0.19	U	1	0.19	6.00	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-70-2	Calcium	99700		1	66.0	2000	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-47-3	Chromium	187		1	1.32	10.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-48-4	Cobalt	40.0		1	1.00	30.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-50-8	Copper	290		1	14.1	20.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7439-89-6	Iron	77800		1	37.0	100	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7439-92-1	Lead	116		1	7.02	12.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7439-95-4	Magnesium	68300		1	78.8	2000	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7439-96-5	Manganese	2580		1	2.92	20.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7439-97-6	Mercury	1.10		1	0.081	0.20	ug/L	02/25/25 13:10	02/26/25 09:22	SW7470A	
7440-02-0	Nickel	130		1	1.70	40.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-09-7	Potassium	50900		1	1370	2000	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7782-49-2	Selenium	11.8	U	1	11.8	20.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-22-4	Silver	1.16	U	1	1.16	10.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-23-5	Sodium	525000		1	474	2000	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-28-0	Thallium	4.64	U	1	4.64	40.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-62-2	Vanadium	96.3		1	6.12	40.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010
7440-66-6	Zinc	323		1	3.50	40.0	ug/L	02/25/25 09:10	03/11/25 14:43	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Clear	Texture:	
Color After:	Light Brown	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB17	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	08:40	LB134804

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB18	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	08:44	LB134804
CCB19	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	09:20	LB134804
CCB20	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	09:36	LB134804

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB19	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:15	LB134807

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB25	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:20	LB134807
CCB26	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:53	LB134807
CCB27	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	12:37	LB134807
CCB28	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	12:49	LB134807

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	02/26/2025	11:41	LB134813
	Antimony	50.0	+/-50.0	U	50.0	P	02/26/2025	11:41	LB134813
	Arsenic	20.0	+/-20.0	U	20.0	P	02/26/2025	11:41	LB134813
	Barium	100	+/-100	U	100	P	02/26/2025	11:41	LB134813
	Beryllium	6.00	+/-6.00	U	6.00	P	02/26/2025	11:41	LB134813
	Cadmium	6.00	+/-6.00	U	6.00	P	02/26/2025	11:41	LB134813
	Calcium	2000	+/-2000	U	2000	P	02/26/2025	11:41	LB134813
	Chromium	10.0	+/-10.0	U	10.0	P	02/26/2025	11:41	LB134813
	Cobalt	30.0	+/-30.0	U	30.0	P	02/26/2025	11:41	LB134813
	Copper	20.0	+/-20.0	U	20.0	P	02/26/2025	11:41	LB134813
	Iron	100	+/-100	U	100	P	02/26/2025	11:41	LB134813
	Lead	12.0	+/-12.0	U	12.0	P	02/26/2025	11:41	LB134813
	Magnesium	2000	+/-2000	U	2000	P	02/26/2025	11:41	LB134813
	Manganese	20.0	+/-20.0	U	20.0	P	02/26/2025	11:41	LB134813
	Nickel	40.0	+/-40.0	U	40.0	P	02/26/2025	11:41	LB134813
	Potassium	2000	+/-2000	U	2000	P	02/26/2025	11:41	LB134813
	Selenium	20.0	+/-20.0	U	20.0	P	02/26/2025	11:41	LB134813
	Silver	10.0	+/-10.0	U	10.0	P	02/26/2025	11:41	LB134813
	Sodium	2000	+/-2000	U	2000	P	02/26/2025	11:41	LB134813
	Thallium	40.0	+/-40.0	U	40.0	P	02/26/2025	11:41	LB134813
	Vanadium	40.0	+/-40.0	U	40.0	P	02/26/2025	11:41	LB134813
	Zinc	40.0	+/-40.0	U	40.0	P	02/26/2025	11:41	LB134813

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	02/26/2025	12:04	LB134813
	Antimony	50.0	+/-50.0	U	50.0	P	02/26/2025	12:04	LB134813
	Arsenic	20.0	+/-20.0	U	20.0	P	02/26/2025	12:04	LB134813
	Barium	100	+/-100	U	100	P	02/26/2025	12:04	LB134813
	Beryllium	6.00	+/-6.00	U	6.00	P	02/26/2025	12:04	LB134813
	Cadmium	6.00	+/-6.00	U	6.00	P	02/26/2025	12:04	LB134813
	Calcium	2000	+/-2000	U	2000	P	02/26/2025	12:04	LB134813
	Chromium	10.0	+/-10.0	U	10.0	P	02/26/2025	12:04	LB134813
	Cobalt	30.0	+/-30.0	U	30.0	P	02/26/2025	12:04	LB134813
	Copper	20.0	+/-20.0	U	20.0	P	02/26/2025	12:04	LB134813
	Iron	100	+/-100	U	100	P	02/26/2025	12:04	LB134813
	Lead	12.0	+/-12.0	U	12.0	P	02/26/2025	12:04	LB134813
	Magnesium	2000	+/-2000	U	2000	P	02/26/2025	12:04	LB134813
	Manganese	20.0	+/-20.0	U	20.0	P	02/26/2025	12:04	LB134813
	Nickel	40.0	+/-40.0	U	40.0	P	02/26/2025	12:04	LB134813
	Potassium	2000	+/-2000	U	2000	P	02/26/2025	12:04	LB134813
	Selenium	20.0	+/-20.0	U	20.0	P	02/26/2025	12:04	LB134813
	Silver	10.0	+/-10.0	U	10.0	P	02/26/2025	12:04	LB134813
	Sodium	2000	+/-2000	U	2000	P	02/26/2025	12:04	LB134813
	Thallium	40.0	+/-40.0	U	40.0	P	02/26/2025	12:04	LB134813
	Vanadium	40.0	+/-40.0	U	40.0	P	02/26/2025	12:04	LB134813
	Zinc	40.0	+/-40.0	U	40.0	P	02/26/2025	12:04	LB134813
CCB02	Aluminum	100	+/-100	U	100	P	02/26/2025	13:15	LB134813
	Antimony	50.0	+/-50.0	U	50.0	P	02/26/2025	13:15	LB134813
	Arsenic	20.0	+/-20.0	U	20.0	P	02/26/2025	13:15	LB134813
	Barium	100	+/-100	U	100	P	02/26/2025	13:15	LB134813
	Beryllium	6.00	+/-6.00	U	6.00	P	02/26/2025	13:15	LB134813
	Cadmium	6.00	+/-6.00	U	6.00	P	02/26/2025	13:15	LB134813
	Calcium	2000	+/-2000	U	2000	P	02/26/2025	13:15	LB134813
	Chromium	10.0	+/-10.0	U	10.0	P	02/26/2025	13:15	LB134813
	Cobalt	30.0	+/-30.0	U	30.0	P	02/26/2025	13:15	LB134813
	Copper	20.0	+/-20.0	U	20.0	P	02/26/2025	13:15	LB134813
	Iron	100	+/-100	U	100	P	02/26/2025	13:15	LB134813
	Lead	12.0	+/-12.0	U	12.0	P	02/26/2025	13:15	LB134813
	Magnesium	2000	+/-2000	U	2000	P	02/26/2025	13:15	LB134813
	Manganese	20.0	+/-20.0	U	20.0	P	02/26/2025	13:15	LB134813
	Nickel	40.0	+/-40.0	U	40.0	P	02/26/2025	13:15	LB134813
	Potassium	2000	+/-2000	U	2000	P	02/26/2025	13:15	LB134813
	Selenium	20.0	+/-20.0	U	20.0	P	02/26/2025	13:15	LB134813

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	02/26/2025	13:15	LB134813
	Sodium	2000	+/-2000	U	2000	P	02/26/2025	13:15	LB134813
	Thallium	40.0	+/-40.0	U	40.0	P	02/26/2025	13:15	LB134813
	Vanadium	40.0	+/-40.0	U	40.0	P	02/26/2025	13:15	LB134813
	Zinc	40.0	+/-40.0	U	40.0	P	02/26/2025	13:15	LB134813
CCB03	Aluminum	100	+/-100	U	100	P	02/26/2025	14:09	LB134813
	Antimony	50.0	+/-50.0	U	50.0	P	02/26/2025	14:09	LB134813
	Arsenic	20.0	+/-20.0	U	20.0	P	02/26/2025	14:09	LB134813
	Barium	100	+/-100	U	100	P	02/26/2025	14:09	LB134813
	Beryllium	6.00	+/-6.00	U	6.00	P	02/26/2025	14:09	LB134813
	Cadmium	6.00	+/-6.00	U	6.00	P	02/26/2025	14:09	LB134813
	Calcium	2000	+/-2000	U	2000	P	02/26/2025	14:09	LB134813
	Chromium	10.0	+/-10.0	U	10.0	P	02/26/2025	14:09	LB134813
	Cobalt	30.0	+/-30.0	U	30.0	P	02/26/2025	14:09	LB134813
	Copper	20.0	+/-20.0	U	20.0	P	02/26/2025	14:09	LB134813
	Iron	100	+/-100	U	100	P	02/26/2025	14:09	LB134813
	Lead	12.0	+/-12.0	U	12.0	P	02/26/2025	14:09	LB134813
	Magnesium	2000	+/-2000	U	2000	P	02/26/2025	14:09	LB134813
	Manganese	20.0	+/-20.0	U	20.0	P	02/26/2025	14:09	LB134813
	Nickel	40.0	+/-40.0	U	40.0	P	02/26/2025	14:09	LB134813
	Potassium	2000	+/-2000	U	2000	P	02/26/2025	14:09	LB134813
	Selenium	20.0	+/-20.0	U	20.0	P	02/26/2025	14:09	LB134813
	Silver	10.0	+/-10.0	U	10.0	P	02/26/2025	14:09	LB134813
	Sodium	2000	+/-2000	U	2000	P	02/26/2025	14:09	LB134813
	Thallium	40.0	+/-40.0	U	40.0	P	02/26/2025	14:09	LB134813
	Vanadium	40.0	+/-40.0	U	40.0	P	02/26/2025	14:09	LB134813
	Zinc	40.0	+/-40.0	U	40.0	P	02/26/2025	14:09	LB134813
CCB04	Aluminum	100	+/-100	U	100	P	02/26/2025	15:43	LB134813
	Antimony	50.0	+/-50.0	U	50.0	P	02/26/2025	15:43	LB134813
	Arsenic	20.0	+/-20.0	U	20.0	P	02/26/2025	15:43	LB134813
	Barium	100	+/-100	U	100	P	02/26/2025	15:43	LB134813
	Beryllium	6.00	+/-6.00	U	6.00	P	02/26/2025	15:43	LB134813
	Cadmium	6.00	+/-6.00	U	6.00	P	02/26/2025	15:43	LB134813
	Calcium	2000	+/-2000	U	2000	P	02/26/2025	15:43	LB134813
	Chromium	10.0	+/-10.0	U	10.0	P	02/26/2025	15:43	LB134813
	Cobalt	30.0	+/-30.0	U	30.0	P	02/26/2025	15:43	LB134813
	Copper	20.0	+/-20.0	U	20.0	P	02/26/2025	15:43	LB134813
	Iron	100	+/-100	U	100	P	02/26/2025	15:43	LB134813
	Lead	12.0	+/-12.0	U	12.0	P	02/26/2025	15:43	LB134813

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	02/26/2025	15:43	LB134813
	Manganese	20.0	+/-20.0	U	20.0	P	02/26/2025	15:43	LB134813
	Nickel	40.0	+/-40.0	U	40.0	P	02/26/2025	15:43	LB134813
	Potassium	2000	+/-2000	U	2000	P	02/26/2025	15:43	LB134813
	Selenium	20.0	+/-20.0	U	20.0	P	02/26/2025	15:43	LB134813
	Silver	10.0	+/-10.0	U	10.0	P	02/26/2025	15:43	LB134813
	Sodium	2000	+/-2000	U	2000	P	02/26/2025	15:43	LB134813
	Thallium	40.0	+/-40.0	U	40.0	P	02/26/2025	15:43	LB134813
	Vanadium	40.0	+/-40.0	U	40.0	P	02/26/2025	15:43	LB134813
	Zinc	40.0	+/-40.0	U	40.0	P	02/26/2025	15:43	LB134813

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/07/2025	10:20	LB134952
	Antimony	50.0	+/-50.0	U	50.0	P	03/07/2025	10:20	LB134952
	Arsenic	20.0	+/-20.0	U	20.0	P	03/07/2025	10:20	LB134952
	Barium	100	+/-100	U	100	P	03/07/2025	10:20	LB134952
	Beryllium	6.00	+/-6.00	U	6.00	P	03/07/2025	10:20	LB134952
	Cadmium	6.00	+/-6.00	U	6.00	P	03/07/2025	10:20	LB134952
	Calcium	2000	+/-2000	U	2000	P	03/07/2025	10:20	LB134952
	Chromium	10.0	+/-10.0	U	10.0	P	03/07/2025	10:20	LB134952
	Cobalt	30.0	+/-30.0	U	30.0	P	03/07/2025	10:20	LB134952
	Copper	20.0	+/-20.0	U	20.0	P	03/07/2025	10:20	LB134952
	Iron	100	+/-100	U	100	P	03/07/2025	10:20	LB134952
	Lead	12.0	+/-12.0	U	12.0	P	03/07/2025	10:20	LB134952
	Magnesium	2000	+/-2000	U	2000	P	03/07/2025	10:20	LB134952
	Manganese	20.0	+/-20.0	U	20.0	P	03/07/2025	10:20	LB134952
	Nickel	40.0	+/-40.0	U	40.0	P	03/07/2025	10:20	LB134952
	Potassium	2000	+/-2000	U	2000	P	03/07/2025	10:20	LB134952
	Selenium	20.0	+/-20.0	U	20.0	P	03/07/2025	10:20	LB134952
	Silver	10.0	+/-10.0	U	10.0	P	03/07/2025	10:20	LB134952
	Sodium	2000	+/-2000	U	2000	P	03/07/2025	10:20	LB134952
	Thallium	40.0	+/-40.0	U	40.0	P	03/07/2025	10:20	LB134952
	Vanadium	40.0	+/-40.0	U	40.0	P	03/07/2025	10:20	LB134952
	Zinc	40.0	+/-40.0	U	40.0	P	03/07/2025	10:20	LB134952

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/07/2025	11:03	LB134952
	Antimony	50.0	+/-50.0	U	50.0	P	03/07/2025	11:03	LB134952
	Arsenic	20.0	+/-20.0	U	20.0	P	03/07/2025	11:03	LB134952
	Barium	100	+/-100	U	100	P	03/07/2025	11:03	LB134952
	Beryllium	6.00	+/-6.00	U	6.00	P	03/07/2025	11:03	LB134952
	Cadmium	6.00	+/-6.00	U	6.00	P	03/07/2025	11:03	LB134952
	Calcium	2000	+/-2000	U	2000	P	03/07/2025	11:03	LB134952
	Chromium	10.0	+/-10.0	U	10.0	P	03/07/2025	11:03	LB134952
	Cobalt	30.0	+/-30.0	U	30.0	P	03/07/2025	11:03	LB134952
	Copper	20.0	+/-20.0	U	20.0	P	03/07/2025	11:03	LB134952
	Iron	100	+/-100	U	100	P	03/07/2025	11:03	LB134952
	Lead	12.0	+/-12.0	U	12.0	P	03/07/2025	11:03	LB134952
	Magnesium	2000	+/-2000	U	2000	P	03/07/2025	11:03	LB134952
	Manganese	20.0	+/-20.0	U	20.0	P	03/07/2025	11:03	LB134952
	Nickel	40.0	+/-40.0	U	40.0	P	03/07/2025	11:03	LB134952
	Potassium	2000	+/-2000	U	2000	P	03/07/2025	11:03	LB134952
	Selenium	20.0	+/-20.0	U	20.0	P	03/07/2025	11:03	LB134952
	Silver	1.18	+/-10.0	J	10.0	P	03/07/2025	11:03	LB134952
	Sodium	2000	+/-2000	U	2000	P	03/07/2025	11:03	LB134952
	Thallium	40.0	+/-40.0	U	40.0	P	03/07/2025	11:03	LB134952
	Vanadium	40.0	+/-40.0	U	40.0	P	03/07/2025	11:03	LB134952
	Zinc	40.0	+/-40.0	U	40.0	P	03/07/2025	11:03	LB134952
CCB02	Aluminum	100	+/-100	U	100	P	03/07/2025	12:03	LB134952
	Antimony	50.0	+/-50.0	U	50.0	P	03/07/2025	12:03	LB134952
	Arsenic	20.0	+/-20.0	U	20.0	P	03/07/2025	12:03	LB134952
	Barium	100	+/-100	U	100	P	03/07/2025	12:03	LB134952
	Beryllium	6.00	+/-6.00	U	6.00	P	03/07/2025	12:03	LB134952
	Cadmium	6.00	+/-6.00	U	6.00	P	03/07/2025	12:03	LB134952
	Calcium	2000	+/-2000	U	2000	P	03/07/2025	12:03	LB134952
	Chromium	10.0	+/-10.0	U	10.0	P	03/07/2025	12:03	LB134952
	Cobalt	30.0	+/-30.0	U	30.0	P	03/07/2025	12:03	LB134952
	Copper	20.0	+/-20.0	U	20.0	P	03/07/2025	12:03	LB134952
	Iron	100	+/-100	U	100	P	03/07/2025	12:03	LB134952
	Lead	12.0	+/-12.0	U	12.0	P	03/07/2025	12:03	LB134952
	Magnesium	2000	+/-2000	U	2000	P	03/07/2025	12:03	LB134952
	Manganese	20.0	+/-20.0	U	20.0	P	03/07/2025	12:03	LB134952
	Nickel	40.0	+/-40.0	U	40.0	P	03/07/2025	12:03	LB134952
	Potassium	2000	+/-2000	U	2000	P	03/07/2025	12:03	LB134952
	Selenium	20.0	+/-20.0	U	20.0	P	03/07/2025	12:03	LB134952

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/07/2025	12:03	LB134952
	Sodium	2000	+/-2000	U	2000	P	03/07/2025	12:03	LB134952
	Thallium	40.0	+/-40.0	U	40.0	P	03/07/2025	12:03	LB134952
	Vanadium	40.0	+/-40.0	U	40.0	P	03/07/2025	12:03	LB134952
	Zinc	40.0	+/-40.0	U	40.0	P	03/07/2025	12:03	LB134952

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	11:57	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	11:57	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	11:57	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	11:57	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	11:57	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	11:57	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	11:57	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	12:34	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	12:34	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	12:34	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	12:34	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	12:34	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	12:34	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	12:34	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
CCB02	Aluminum	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	13:25	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	13:25	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	13:25	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	13:25	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	13:25	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	13:25	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	13:25	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
CCB03	Aluminum	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	14:15	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	14:15	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	14:15	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	14:15	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	14:15	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	14:15	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	14:15	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
CCB04	Aluminum	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	15:05	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:05	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:05	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	15:05	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	15:05	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	15:05	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	15:05	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
CCB05	Aluminum	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	15:55	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:55	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:55	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	15:55	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	15:55	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	15:55	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	15:55	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
CCB06	Aluminum	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	16:52	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	16:52	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	16:52	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	16:52	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	16:52	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	16:52	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	16:52	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
CCB07	Aluminum	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	17:44	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	17:44	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	17:44	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	17:44	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	17:44	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	17:44	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	17:44	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
CCB08	Aluminum	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	18:33	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:33	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:33	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	18:33	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	18:33	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	18:33	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	18:33	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
CCB09	Aluminum	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	18:50	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:50	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:50	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	18:50	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	18:50	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	18:50	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	18:50	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	10:58	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	10:58	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	10:58	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	10:58	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	10:58	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	10:58	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	10:58	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	10:58	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	10:58	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	10:58	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	10:58	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	11:34	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	11:34	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	11:34	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	11:34	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	11:34	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	11:34	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	11:34	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	11:34	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	11:34	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	11:34	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	11:34	LB134987
CCB02	Aluminum	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	12:23	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	12:23	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	12:23	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	12:23	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	12:23	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	12:23	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	12:23	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	12:23	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	12:23	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	12:23	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	12:23	LB134987
CCB03	Aluminum	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	13:14	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	13:14	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	13:14	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	13:14	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	13:14	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	13:14	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	13:14	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	13:14	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	13:14	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	13:14	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	13:14	LB134987
CCB04	Aluminum	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	14:13	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	14:13	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	14:13	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	14:13	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	14:13	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	14:13	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	14:13	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	14:13	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	14:13	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	14:13	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	14:13	LB134987
CCB05	Aluminum	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	15:04	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:04	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:04	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:04	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	15:04	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	15:04	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	15:04	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:04	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	15:04	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	15:04	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	15:04	LB134987
CCB06	Aluminum	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Antimony	50.0	+/-50.0	U	50.0	P	03/11/2025	15:54	LB134987
	Arsenic	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Barium	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Beryllium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:54	LB134987
	Cadmium	6.00	+/-6.00	U	6.00	P	03/11/2025	15:54	LB134987
	Calcium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	03/11/2025	15:54	LB134987
	Cobalt	30.0	+/-30.0	U	30.0	P	03/11/2025	15:54	LB134987
	Copper	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Iron	100	+/-100	U	100	P	03/11/2025	15:54	LB134987
	Lead	12.0	+/-12.0	U	12.0	P	03/11/2025	15:54	LB134987
	Magnesium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987
	Manganese	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Nickel	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987
	Potassium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987
	Selenium	20.0	+/-20.0	U	20.0	P	03/11/2025	15:54	LB134987
	Silver	10.0	+/-10.0	U	10.0	P	03/11/2025	15:54	LB134987
	Sodium	2000	+/-2000	U	2000	P	03/11/2025	15:54	LB134987
	Thallium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987
	Vanadium	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987
	Zinc	40.0	+/-40.0	U	40.0	P	03/11/2025	15:54	LB134987

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166864BL		**SOLID**		**Batch Number:**	**PB166864**		**Prep Date:**	**02/25/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	02/26/2025	11:32	LB134807

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166869BL		**WATER**		**Batch Number:**	**PB166869**		**Prep Date:**	**02/25/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	02/26/2025	09:02	LB134804

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166834BL		**SOLID**		**Batch Number:**	**PB166834**		**Prep Date:**	**02/24/2025**	
	Aluminum	4.22	<4.22	U	4.22	P	03/07/2025	11:32	LB134952
	Antimony	2.11	<2.11	U	2.11	P	03/07/2025	11:32	LB134952
	Arsenic	0.84	<0.84	U	0.84	P	03/07/2025	11:32	LB134952
	Barium	4.22	<4.22	U	4.22	P	03/07/2025	11:32	LB134952
	Beryllium	0.25	<0.25	U	0.25	P	03/07/2025	11:32	LB134952
	Cadmium	0.25	<0.25	U	0.25	P	03/07/2025	11:32	LB134952
	Calcium	84.4	<84.4	U	84.4	P	03/07/2025	11:32	LB134952
	Chromium	0.42	<0.42	U	0.42	P	03/07/2025	11:32	LB134952
	Cobalt	1.27	<1.27	U	1.27	P	03/07/2025	11:32	LB134952
	Copper	0.84	<0.84	U	0.84	P	03/07/2025	11:32	LB134952
	Iron	4.22	<4.22	U	4.22	P	03/07/2025	11:32	LB134952
	Lead	0.51	<0.51	U	0.51	P	03/07/2025	11:32	LB134952
	Magnesium	84.4	<84.4	U	84.4	P	03/07/2025	11:32	LB134952
	Manganese	0.84	<0.84	U	0.84	P	03/07/2025	11:32	LB134952
	Nickel	1.69	<1.69	U	1.69	P	03/07/2025	11:32	LB134952
	Potassium	84.4	<84.4	U	84.4	P	03/07/2025	11:32	LB134952
	Selenium	0.84	<0.84	U	0.84	P	03/07/2025	11:32	LB134952
	Silver	0.044	<0.42	J	0.42	P	03/07/2025	11:32	LB134952
	Sodium	84.4	<84.4	U	84.4	P	03/07/2025	11:32	LB134952
	Thallium	1.69	<1.69	U	1.69	P	03/07/2025	11:32	LB134952
	Vanadium	1.69	<1.69	U	1.69	P	03/07/2025	11:32	LB134952
	Zinc	1.69	<1.69	U	1.69	P	03/07/2025	11:32	LB134952

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166859BL		**WATER**		**Batch Number:**	**PB166859**		**Prep Date:**	**02/25/2025**	
	Aluminum	50.0	<50.0	U	50.0	P	03/10/2025	17:34	LB134965
	Antimony	25.0	<25.0	U	25.0	P	03/10/2025	17:34	LB134965
	Arsenic	10.0	<10.0	U	10.0	P	03/10/2025	17:34	LB134965
	Barium	50.0	<50.0	U	50.0	P	03/10/2025	17:34	LB134965
	Beryllium	3.00	<3.00	U	3.00	P	03/10/2025	17:34	LB134965
	Cadmium	3.00	<3.00	U	3.00	P	03/10/2025	17:34	LB134965
	Calcium	1000	<1000	U	1000	P	03/10/2025	17:34	LB134965
	Chromium	5.00	<5.00	U	5.00	P	03/10/2025	17:34	LB134965
	Cobalt	15.0	<15.0	U	15.0	P	03/10/2025	17:34	LB134965
	Copper	10.0	<10.0	U	10.0	P	03/10/2025	17:34	LB134965
	Iron	50.0	<50.0	U	50.0	P	03/10/2025	17:34	LB134965
	Lead	6.00	<6.00	U	6.00	P	03/10/2025	17:34	LB134965
	Magnesium	1000	<1000	U	1000	P	03/10/2025	17:34	LB134965
	Manganese	10.0	<10.0	U	10.0	P	03/10/2025	17:34	LB134965
	Nickel	20.0	<20.0	U	20.0	P	03/10/2025	17:34	LB134965

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Instrument: P4

Potassium	1000	<1000	U	1000	P	03/10/2025	17:34	LB134965
Selenium	10.0	<10.0	U	10.0	P	03/10/2025	17:34	LB134965
Silver	5.00	<5.00	U	5.00	P	03/10/2025	17:34	LB134965
Sodium	1000	<1000	U	1000	P	03/10/2025	17:34	LB134965
Thallium	20.0	<20.0	U	20.0	P	03/10/2025	17:34	LB134965
Vanadium	20.0	<20.0	U	20.0	P	03/10/2025	17:34	LB134965
Zinc	20.0	<20.0	U	20.0	P	03/10/2025	17:34	LB134965

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV17	Mercury	4.17	4.0	104	90 - 110	CV	02/26/2025	08:35	LB134804

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV18	Mercury	5.36	5.0	107	90 - 110	CV	02/26/2025	08:42	LB134804
CCV19	Mercury	5.32	5.0	106	90 - 110	CV	02/26/2025	09:18	LB134804
CCV20	Mercury	4.78	5.0	96	90 - 110	CV	02/26/2025	09:33	LB134804

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV19	Mercury	3.63	4.0	91	90 - 110	CV	02/26/2025	11:10	LB134807

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV25	Mercury	5.01	5.0	100	90 - 110	CV	02/26/2025	11:18	LB134807
CCV26	Mercury	4.86	5.0	97	90 - 110	CV	02/26/2025	11:48	LB134807
CCV27	Mercury	4.78	5.0	96	90 - 110	CV	02/26/2025	12:30	LB134807
CCV28	Mercury	4.73	5.0	95	90 - 110	CV	02/26/2025	12:46	LB134807

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2480	2500	99	90 - 110	P	02/26/2025	11:32	LB134813
	Antimony	1060	1000	106	90 - 110	P	02/26/2025	11:32	LB134813
	Arsenic	1090	1000	108	90 - 110	P	02/26/2025	11:32	LB134813
	Barium	524	520	101	90 - 110	P	02/26/2025	11:32	LB134813
	Beryllium	502	510	98	90 - 110	P	02/26/2025	11:32	LB134813
	Cadmium	520	510	102	90 - 110	P	02/26/2025	11:32	LB134813
	Calcium	9690	10000	97	90 - 110	P	02/26/2025	11:32	LB134813
	Chromium	541	520	104	90 - 110	P	02/26/2025	11:32	LB134813
	Cobalt	522	520	100	90 - 110	P	02/26/2025	11:32	LB134813
	Copper	534	510	105	90 - 110	P	02/26/2025	11:32	LB134813
	Iron	9930	10000	99	90 - 110	P	02/26/2025	11:32	LB134813
	Lead	1040	1000	104	90 - 110	P	02/26/2025	11:32	LB134813
	Magnesium	5690	6000	95	90 - 110	P	02/26/2025	11:32	LB134813
	Manganese	487	520	94	90 - 110	P	02/26/2025	11:32	LB134813
	Nickel	523	530	99	90 - 110	P	02/26/2025	11:32	LB134813
	Potassium	9870	9900	100	90 - 110	P	02/26/2025	11:32	LB134813
	Selenium	1080	1000	108	90 - 110	P	02/26/2025	11:32	LB134813
	Silver	261	250	104	90 - 110	P	02/26/2025	11:32	LB134813
	Sodium	9500	10000	95	90 - 110	P	02/26/2025	11:32	LB134813
	Thallium	1090	1000	109	90 - 110	P	02/26/2025	11:32	LB134813
	Vanadium	508	500	102	90 - 110	P	02/26/2025	11:32	LB134813
	Zinc	1050	1000	105	90 - 110	P	02/26/2025	11:32	LB134813

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	97.4	100	97	80 - 120	P	02/26/2025	11:37	LB134813
	Antimony	51.5	50.0	103	80 - 120	P	02/26/2025	11:37	LB134813
	Arsenic	20.1	20.0	101	80 - 120	P	02/26/2025	11:37	LB134813
	Barium	88.2	100	88	80 - 120	P	02/26/2025	11:37	LB134813
	Beryllium	6.02	6.0	100	80 - 120	P	02/26/2025	11:37	LB134813
	Cadmium	5.91	6.0	98	80 - 120	P	02/26/2025	11:37	LB134813
	Calcium	1880	2000	94	80 - 120	P	02/26/2025	11:37	LB134813
	Chromium	10.0	10.0	100	80 - 120	P	02/26/2025	11:37	LB134813
	Cobalt	28.9	30.0	96	80 - 120	P	02/26/2025	11:37	LB134813
	Copper	21.3	20.0	107	80 - 120	P	02/26/2025	11:37	LB134813
	Iron	90.4	100	90	80 - 120	P	02/26/2025	11:37	LB134813
	Lead	12.8	12.0	107	80 - 120	P	02/26/2025	11:37	LB134813
	Magnesium	2010	2000	101	80 - 120	P	02/26/2025	11:37	LB134813
	Manganese	19.6	20.0	98	80 - 120	P	02/26/2025	11:37	LB134813
	Nickel	38.8	40.0	97	80 - 120	P	02/26/2025	11:37	LB134813
	Potassium	1850	2000	92	80 - 120	P	02/26/2025	11:37	LB134813
	Selenium	19.6	20.0	98	80 - 120	P	02/26/2025	11:37	LB134813
	Silver	10.4	10.0	104	80 - 120	P	02/26/2025	11:37	LB134813
	Sodium	1720	2000	86	80 - 120	P	02/26/2025	11:37	LB134813
	Thallium	37.4	40.0	93	80 - 120	P	02/26/2025	11:37	LB134813
	Vanadium	36.8	40.0	92	80 - 120	P	02/26/2025	11:37	LB134813
	Zinc	41.7	40.0	104	80 - 120	P	02/26/2025	11:37	LB134813

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9640	10000	96	90 - 110	P	02/26/2025	11:59	LB134813
	Antimony	5000	5000	100	90 - 110	P	02/26/2025	11:59	LB134813
	Arsenic	4990	5000	100	90 - 110	P	02/26/2025	11:59	LB134813
	Barium	9460	10000	95	90 - 110	P	02/26/2025	11:59	LB134813
	Beryllium	248	250	99	90 - 110	P	02/26/2025	11:59	LB134813
	Cadmium	2460	2500	98	90 - 110	P	02/26/2025	11:59	LB134813
	Calcium	23800	25000	95	90 - 110	P	02/26/2025	11:59	LB134813
	Chromium	1000	1000	100	90 - 110	P	02/26/2025	11:59	LB134813
	Cobalt	2450	2500	98	90 - 110	P	02/26/2025	11:59	LB134813
	Copper	1250	1250	100	90 - 110	P	02/26/2025	11:59	LB134813
	Iron	4740	5000	95	90 - 110	P	02/26/2025	11:59	LB134813
	Lead	4940	5000	99	90 - 110	P	02/26/2025	11:59	LB134813
	Magnesium	23900	25000	96	90 - 110	P	02/26/2025	11:59	LB134813
	Manganese	2340	2500	94	90 - 110	P	02/26/2025	11:59	LB134813
	Nickel	2460	2500	98	90 - 110	P	02/26/2025	11:59	LB134813
	Potassium	24000	25000	96	90 - 110	P	02/26/2025	11:59	LB134813
	Selenium	5020	5000	100	90 - 110	P	02/26/2025	11:59	LB134813
	Silver	1240	1250	100	90 - 110	P	02/26/2025	11:59	LB134813
	Sodium	23600	25000	94	90 - 110	P	02/26/2025	11:59	LB134813
	Thallium	5180	5000	104	90 - 110	P	02/26/2025	11:59	LB134813
	Vanadium	2390	2500	96	90 - 110	P	02/26/2025	11:59	LB134813
	Zinc	2500	2500	100	90 - 110	P	02/26/2025	11:59	LB134813
CCV02	Aluminum	9630	10000	96	90 - 110	P	02/26/2025	13:11	LB134813
	Antimony	4900	5000	98	90 - 110	P	02/26/2025	13:11	LB134813
	Arsenic	4830	5000	97	90 - 110	P	02/26/2025	13:11	LB134813
	Barium	9290	10000	93	90 - 110	P	02/26/2025	13:11	LB134813
	Beryllium	239	250	96	90 - 110	P	02/26/2025	13:11	LB134813
	Cadmium	2360	2500	94	90 - 110	P	02/26/2025	13:11	LB134813
	Calcium	23300	25000	93	90 - 110	P	02/26/2025	13:11	LB134813
	Chromium	980	1000	98	90 - 110	P	02/26/2025	13:11	LB134813
	Cobalt	2380	2500	95	90 - 110	P	02/26/2025	13:11	LB134813
	Copper	1220	1250	98	90 - 110	P	02/26/2025	13:11	LB134813
	Iron	5130	5000	102	90 - 110	P	02/26/2025	13:11	LB134813
	Lead	4770	5000	95	90 - 110	P	02/26/2025	13:11	LB134813

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23000	25000	92	90 - 110	P	02/26/2025	13:11	LB134813
	Manganese	2260	2500	90	90 - 110	P	02/26/2025	13:11	LB134813
	Nickel	2360	2500	94	90 - 110	P	02/26/2025	13:11	LB134813
	Potassium	23400	25000	94	90 - 110	P	02/26/2025	13:11	LB134813
	Selenium	4830	5000	97	90 - 110	P	02/26/2025	13:11	LB134813
	Silver	1210	1250	97	90 - 110	P	02/26/2025	13:11	LB134813
	Sodium	22800	25000	91	90 - 110	P	02/26/2025	13:11	LB134813
	Thallium	4830	5000	97	90 - 110	P	02/26/2025	13:11	LB134813
	Vanadium	2350	2500	94	90 - 110	P	02/26/2025	13:11	LB134813
	Zinc	2430	2500	97	90 - 110	P	02/26/2025	13:11	LB134813
CCV03	Aluminum	9830	10000	98	90 - 110	P	02/26/2025	14:03	LB134813
	Antimony	5090	5000	102	90 - 110	P	02/26/2025	14:03	LB134813
	Arsenic	5040	5000	101	90 - 110	P	02/26/2025	14:03	LB134813
	Barium	9420	10000	94	90 - 110	P	02/26/2025	14:03	LB134813
	Beryllium	233	250	93	90 - 110	P	02/26/2025	14:03	LB134813
	Cadmium	2430	2500	97	90 - 110	P	02/26/2025	14:03	LB134813
	Calcium	23600	25000	95	90 - 110	P	02/26/2025	14:03	LB134813
	Chromium	1000	1000	100	90 - 110	P	02/26/2025	14:03	LB134813
	Cobalt	2440	2500	98	90 - 110	P	02/26/2025	14:03	LB134813
	Copper	1250	1250	100	90 - 110	P	02/26/2025	14:03	LB134813
	Iron	4950	5000	99	90 - 110	P	02/26/2025	14:03	LB134813
	Lead	4900	5000	98	90 - 110	P	02/26/2025	14:03	LB134813
	Magnesium	23600	25000	94	90 - 110	P	02/26/2025	14:03	LB134813
	Manganese	2320	2500	93	90 - 110	P	02/26/2025	14:03	LB134813
	Nickel	2430	2500	97	90 - 110	P	02/26/2025	14:03	LB134813
	Potassium	24900	25000	100	90 - 110	P	02/26/2025	14:03	LB134813
	Selenium	5070	5000	101	90 - 110	P	02/26/2025	14:03	LB134813
	Silver	1240	1250	99	90 - 110	P	02/26/2025	14:03	LB134813
	Sodium	24300	25000	97	90 - 110	P	02/26/2025	14:03	LB134813
	Thallium	5120	5000	102	90 - 110	P	02/26/2025	14:03	LB134813
	Vanadium	2410	2500	96	90 - 110	P	02/26/2025	14:03	LB134813
	Zinc	2510	2500	100	90 - 110	P	02/26/2025	14:03	LB134813
CCV04	Aluminum	9480	10000	95	90 - 110	P	02/26/2025	15:39	LB134813
	Antimony	5000	5000	100	90 - 110	P	02/26/2025	15:39	LB134813

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4950	5000	99	90 - 110	P	02/26/2025	15:39	LB134813
	Barium	9110	10000	91	90 - 110	P	02/26/2025	15:39	LB134813
	Beryllium	241	250	96	90 - 110	P	02/26/2025	15:39	LB134813
	Cadmium	2420	2500	97	90 - 110	P	02/26/2025	15:39	LB134813
	Calcium	23100	25000	92	90 - 110	P	02/26/2025	15:39	LB134813
	Chromium	996	1000	100	90 - 110	P	02/26/2025	15:39	LB134813
	Cobalt	2430	2500	97	90 - 110	P	02/26/2025	15:39	LB134813
	Copper	1250	1250	100	90 - 110	P	02/26/2025	15:39	LB134813
	Iron	4650	5000	93	90 - 110	P	02/26/2025	15:39	LB134813
	Lead	4880	5000	98	90 - 110	P	02/26/2025	15:39	LB134813
	Magnesium	23200	25000	93	90 - 110	P	02/26/2025	15:39	LB134813
	Manganese	2250	2500	90	90 - 110	P	02/26/2025	15:39	LB134813
	Nickel	2410	2500	97	90 - 110	P	02/26/2025	15:39	LB134813
	Potassium	23400	25000	94	90 - 110	P	02/26/2025	15:39	LB134813
	Selenium	4940	5000	99	90 - 110	P	02/26/2025	15:39	LB134813
	Silver	1230	1250	98	90 - 110	P	02/26/2025	15:39	LB134813
	Sodium	22900	25000	92	90 - 110	P	02/26/2025	15:39	LB134813
	Thallium	4910	5000	98	90 - 110	P	02/26/2025	15:39	LB134813
	Vanadium	2340	2500	94	90 - 110	P	02/26/2025	15:39	LB134813
	Zinc	2430	2500	97	90 - 110	P	02/26/2025	15:39	LB134813

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	03/07/2025	10:08	LB134952
	Antimony	1030	1000	103	90 - 110	P	03/07/2025	10:08	LB134952
	Arsenic	1060	1000	106	90 - 110	P	03/07/2025	10:08	LB134952
	Barium	512	520	98	90 - 110	P	03/07/2025	10:08	LB134952
	Beryllium	534	510	105	90 - 110	P	03/07/2025	10:08	LB134952
	Cadmium	501	510	98	90 - 110	P	03/07/2025	10:08	LB134952
	Calcium	9630	10000	96	90 - 110	P	03/07/2025	10:08	LB134952
	Chromium	544	520	105	90 - 110	P	03/07/2025	10:08	LB134952
	Cobalt	508	520	98	90 - 110	P	03/07/2025	10:08	LB134952
	Copper	531	510	104	90 - 110	P	03/07/2025	10:08	LB134952
	Iron	9840	10000	98	90 - 110	P	03/07/2025	10:08	LB134952
	Lead	1010	1000	101	90 - 110	P	03/07/2025	10:08	LB134952
	Magnesium	5710	6000	95	90 - 110	P	03/07/2025	10:08	LB134952
	Manganese	488	520	94	90 - 110	P	03/07/2025	10:08	LB134952
	Nickel	509	530	96	90 - 110	P	03/07/2025	10:08	LB134952
	Potassium	9660	9900	98	90 - 110	P	03/07/2025	10:08	LB134952
	Selenium	1050	1000	105	90 - 110	P	03/07/2025	10:08	LB134952
	Silver	257	250	103	90 - 110	P	03/07/2025	10:08	LB134952
	Sodium	9480	10000	95	90 - 110	P	03/07/2025	10:08	LB134952
	Thallium	1050	1000	105	90 - 110	P	03/07/2025	10:08	LB134952
	Vanadium	509	500	102	90 - 110	P	03/07/2025	10:08	LB134952
	Zinc	1040	1000	104	90 - 110	P	03/07/2025	10:08	LB134952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	102	100	102	80 - 120	P	03/07/2025	10:13	LB134952
	Antimony	50.7	50.0	102	80 - 120	P	03/07/2025	10:13	LB134952
	Arsenic	21.2	20.0	106	80 - 120	P	03/07/2025	10:13	LB134952
	Barium	90.8	100	91	80 - 120	P	03/07/2025	10:13	LB134952
	Beryllium	5.68	6.0	95	80 - 120	P	03/07/2025	10:13	LB134952
	Cadmium	5.85	6.0	98	80 - 120	P	03/07/2025	10:13	LB134952
	Calcium	1930	2000	96	80 - 120	P	03/07/2025	10:13	LB134952
	Chromium	10.6	10.0	106	80 - 120	P	03/07/2025	10:13	LB134952
	Cobalt	29.3	30.0	98	80 - 120	P	03/07/2025	10:13	LB134952
	Copper	22.8	20.0	114	80 - 120	P	03/07/2025	10:13	LB134952
	Iron	93.5	100	94	80 - 120	P	03/07/2025	10:13	LB134952
	Lead	11.3	12.0	94	80 - 120	P	03/07/2025	10:13	LB134952
	Magnesium	2040	2000	102	80 - 120	P	03/07/2025	10:13	LB134952
	Manganese	18.9	20.0	94	80 - 120	P	03/07/2025	10:13	LB134952
	Nickel	39.3	40.0	98	80 - 120	P	03/07/2025	10:13	LB134952
	Potassium	1890	2000	94	80 - 120	P	03/07/2025	10:13	LB134952
	Selenium	21.8	20.0	109	80 - 120	P	03/07/2025	10:13	LB134952
	Silver	11.0	10.0	110	80 - 120	P	03/07/2025	10:13	LB134952
	Sodium	1840	2000	92	80 - 120	P	03/07/2025	10:13	LB134952
	Thallium	40.1	40.0	100	80 - 120	P	03/07/2025	10:13	LB134952
	Vanadium	37.4	40.0	93	80 - 120	P	03/07/2025	10:13	LB134952
	Zinc	42.4	40.0	106	80 - 120	P	03/07/2025	10:13	LB134952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10100	10000	101	90 - 110	P	03/07/2025	10:57	LB134952
	Antimony	5340	5000	107	90 - 110	P	03/07/2025	10:57	LB134952
	Arsenic	5310	5000	106	90 - 110	P	03/07/2025	10:57	LB134952
	Barium	9330	10000	93	90 - 110	P	03/07/2025	10:57	LB134952
	Beryllium	232	250	93	90 - 110	P	03/07/2025	10:57	LB134952
	Cadmium	2460	2500	98	90 - 110	P	03/07/2025	10:57	LB134952
	Calcium	23500	25000	94	90 - 110	P	03/07/2025	10:57	LB134952
	Chromium	1100	1000	110	90 - 110	P	03/07/2025	10:57	LB134952
	Cobalt	2460	2500	98	90 - 110	P	03/07/2025	10:57	LB134952
	Copper	1310	1250	105	90 - 110	P	03/07/2025	10:57	LB134952
	Iron	4960	5000	99	90 - 110	P	03/07/2025	10:57	LB134952
	Lead	5000	5000	100	90 - 110	P	03/07/2025	10:57	LB134952
	Magnesium	23500	25000	94	90 - 110	P	03/07/2025	10:57	LB134952
	Manganese	2250	2500	90	90 - 110	P	03/07/2025	10:57	LB134952
	Nickel	2450	2500	98	90 - 110	P	03/07/2025	10:57	LB134952
	Potassium	25600	25000	102	90 - 110	P	03/07/2025	10:57	LB134952
	Selenium	5190	5000	104	90 - 110	P	03/07/2025	10:57	LB134952
	Silver	1280	1250	102	90 - 110	P	03/07/2025	10:57	LB134952
	Sodium	26200	25000	105	90 - 110	P	03/07/2025	10:57	LB134952
	Thallium	5100	5000	102	90 - 110	P	03/07/2025	10:57	LB134952
	Vanadium	2410	2500	96	90 - 110	P	03/07/2025	10:57	LB134952
	Zinc	2600	2500	104	90 - 110	P	03/07/2025	10:57	LB134952
CCV02	Aluminum	9500	10000	95	90 - 110	P	03/07/2025	11:59	LB134952
	Antimony	5110	5000	102	90 - 110	P	03/07/2025	11:59	LB134952
	Arsenic	5140	5000	103	90 - 110	P	03/07/2025	11:59	LB134952
	Barium	10300	10000	103	90 - 110	P	03/07/2025	11:59	LB134952
	Beryllium	230	250	92	90 - 110	P	03/07/2025	11:59	LB134952
	Cadmium	2400	2500	96	90 - 110	P	03/07/2025	11:59	LB134952
	Calcium	26300	25000	105	90 - 110	P	03/07/2025	11:59	LB134952
	Chromium	1070	1000	107	90 - 110	P	03/07/2025	11:59	LB134952
	Cobalt	2390	2500	96	90 - 110	P	03/07/2025	11:59	LB134952
	Copper	1270	1250	102	90 - 110	P	03/07/2025	11:59	LB134952
	Iron	4730	5000	95	90 - 110	P	03/07/2025	11:59	LB134952
	Lead	4870	5000	98	90 - 110	P	03/07/2025	11:59	LB134952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	22700	25000	91	90 - 110	P	03/07/2025	11:59	LB134952
	Manganese	2610	2500	104	90 - 110	P	03/07/2025	11:59	LB134952
	Nickel	2380	2500	95	90 - 110	P	03/07/2025	11:59	LB134952
	Potassium	24700	25000	99	90 - 110	P	03/07/2025	11:59	LB134952
	Selenium	5050	5000	101	90 - 110	P	03/07/2025	11:59	LB134952
	Silver	1240	1250	100	90 - 110	P	03/07/2025	11:59	LB134952
	Sodium	24900	25000	100	90 - 110	P	03/07/2025	11:59	LB134952
	Thallium	5010	5000	100	90 - 110	P	03/07/2025	11:59	LB134952
	Vanadium	2290	2500	91	90 - 110	P	03/07/2025	11:59	LB134952
	Zinc	2520	2500	101	90 - 110	P	03/07/2025	11:59	LB134952

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2500	2500	100	95 - 105	P	03/10/2025	11:48	LB134965
	Antimony	1010	1000	100	95 - 105	P	03/10/2025	11:48	LB134965
	Arsenic	1030	1000	103	95 - 105	P	03/10/2025	11:48	LB134965
	Barium	537	520	103	95 - 105	P	03/10/2025	11:48	LB134965
	Beryllium	517	510	101	95 - 105	P	03/10/2025	11:48	LB134965
	Cadmium	503	510	99	95 - 105	P	03/10/2025	11:48	LB134965
	Calcium	9910	10000	99	95 - 105	P	03/10/2025	11:48	LB134965
	Chromium	531	520	102	95 - 105	P	03/10/2025	11:48	LB134965
	Cobalt	510	520	98	95 - 105	P	03/10/2025	11:48	LB134965
	Copper	524	510	103	95 - 105	P	03/10/2025	11:48	LB134965
	Iron	10400	10000	104	95 - 105	P	03/10/2025	11:48	LB134965
	Lead	1010	1000	101	95 - 105	P	03/10/2025	11:48	LB134965
	Magnesium	5800	6000	97	95 - 105	P	03/10/2025	11:48	LB134965
	Manganese	503	520	97	95 - 105	P	03/10/2025	11:48	LB134965
	Nickel	513	530	97	95 - 105	P	03/10/2025	11:48	LB134965
	Potassium	10200	9900	103	95 - 105	P	03/10/2025	11:48	LB134965
	Selenium	1040	1000	104	95 - 105	P	03/10/2025	11:48	LB134965
	Silver	257	250	103	95 - 105	P	03/10/2025	11:48	LB134965
	Sodium	9760	10000	98	95 - 105	P	03/10/2025	11:48	LB134965
	Thallium	1040	1000	104	95 - 105	P	03/10/2025	11:48	LB134965
	Vanadium	513	500	103	95 - 105	P	03/10/2025	11:48	LB134965
	Zinc	1040	1000	104	95 - 105	P	03/10/2025	11:48	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	03/10/2025	11:52	LB134965
	Antimony	49.7	50.0	99	80 - 120	P	03/10/2025	11:52	LB134965
	Arsenic	17.9	20.0	90	80 - 120	P	03/10/2025	11:52	LB134965
	Barium	90.3	100	90	80 - 120	P	03/10/2025	11:52	LB134965
	Beryllium	5.54	6.0	92	80 - 120	P	03/10/2025	11:52	LB134965
	Cadmium	5.56	6.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Calcium	1900	2000	95	80 - 120	P	03/10/2025	11:52	LB134965
	Chromium	9.58	10.0	96	80 - 120	P	03/10/2025	11:52	LB134965
	Cobalt	28.0	30.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Copper	21.2	20.0	106	80 - 120	P	03/10/2025	11:52	LB134965
	Iron	108	100	108	80 - 120	P	03/10/2025	11:52	LB134965
	Lead	11.7	12.0	97	80 - 120	P	03/10/2025	11:52	LB134965
	Magnesium	1970	2000	99	80 - 120	P	03/10/2025	11:52	LB134965
	Manganese	19.2	20.0	96	80 - 120	P	03/10/2025	11:52	LB134965
	Nickel	37.4	40.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Potassium	1930	2000	97	80 - 120	P	03/10/2025	11:52	LB134965
	Selenium	18.2	20.0	91	80 - 120	P	03/10/2025	11:52	LB134965
	Silver	9.78	10.0	98	80 - 120	P	03/10/2025	11:52	LB134965
	Sodium	1800	2000	90	80 - 120	P	03/10/2025	11:52	LB134965
	Thallium	40.0	40.0	100	80 - 120	P	03/10/2025	11:52	LB134965
	Vanadium	35.7	40.0	89	80 - 120	P	03/10/2025	11:52	LB134965
	Zinc	40.5	40.0	101	80 - 120	P	03/10/2025	11:52	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9760	10000	98	90 - 110	P	03/10/2025	12:27	LB134965
	Antimony	5060	5000	101	90 - 110	P	03/10/2025	12:27	LB134965
	Arsenic	4990	5000	100	90 - 110	P	03/10/2025	12:27	LB134965
	Barium	9500	10000	95	90 - 110	P	03/10/2025	12:27	LB134965
	Beryllium	247	250	99	90 - 110	P	03/10/2025	12:27	LB134965
	Cadmium	2440	2500	97	90 - 110	P	03/10/2025	12:27	LB134965
	Calcium	26100	25000	104	90 - 110	P	03/10/2025	12:27	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	12:27	LB134965
	Cobalt	2430	2500	97	90 - 110	P	03/10/2025	12:27	LB134965
	Copper	1240	1250	99	90 - 110	P	03/10/2025	12:27	LB134965
	Iron	4820	5000	96	90 - 110	P	03/10/2025	12:27	LB134965
	Lead	4900	5000	98	90 - 110	P	03/10/2025	12:27	LB134965
	Magnesium	25900	25000	104	90 - 110	P	03/10/2025	12:27	LB134965
	Manganese	2620	2500	105	90 - 110	P	03/10/2025	12:27	LB134965
	Nickel	2440	2500	98	90 - 110	P	03/10/2025	12:27	LB134965
	Potassium	24200	25000	97	90 - 110	P	03/10/2025	12:27	LB134965
	Selenium	5030	5000	101	90 - 110	P	03/10/2025	12:27	LB134965
	Silver	1220	1250	98	90 - 110	P	03/10/2025	12:27	LB134965
	Sodium	24100	25000	96	90 - 110	P	03/10/2025	12:27	LB134965
	Thallium	4960	5000	99	90 - 110	P	03/10/2025	12:27	LB134965
	Vanadium	2410	2500	96	90 - 110	P	03/10/2025	12:27	LB134965
	Zinc	2470	2500	99	90 - 110	P	03/10/2025	12:27	LB134965
CCV02	Aluminum	9920	10000	99	90 - 110	P	03/10/2025	13:21	LB134965
	Antimony	5190	5000	104	90 - 110	P	03/10/2025	13:21	LB134965
	Arsenic	5090	5000	102	90 - 110	P	03/10/2025	13:21	LB134965
	Barium	10200	10000	102	90 - 110	P	03/10/2025	13:21	LB134965
	Beryllium	231	250	93	90 - 110	P	03/10/2025	13:21	LB134965
	Cadmium	2470	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Calcium	24300	25000	97	90 - 110	P	03/10/2025	13:21	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	13:21	LB134965
	Cobalt	2480	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Copper	1270	1250	102	90 - 110	P	03/10/2025	13:21	LB134965
	Iron	5220	5000	104	90 - 110	P	03/10/2025	13:21	LB134965
	Lead	4950	5000	99	90 - 110	P	03/10/2025	13:21	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24000	25000	96	90 - 110	P	03/10/2025	13:21	LB134965
	Manganese	2420	2500	97	90 - 110	P	03/10/2025	13:21	LB134965
	Nickel	2490	2500	100	90 - 110	P	03/10/2025	13:21	LB134965
	Potassium	26700	25000	107	90 - 110	P	03/10/2025	13:21	LB134965
	Selenium	5150	5000	103	90 - 110	P	03/10/2025	13:21	LB134965
	Silver	1260	1250	101	90 - 110	P	03/10/2025	13:21	LB134965
	Sodium	26400	25000	106	90 - 110	P	03/10/2025	13:21	LB134965
	Thallium	5050	5000	101	90 - 110	P	03/10/2025	13:21	LB134965
	Vanadium	2470	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Zinc	2550	2500	102	90 - 110	P	03/10/2025	13:21	LB134965
CCV03	Aluminum	10000	10000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Antimony	5250	5000	105	90 - 110	P	03/10/2025	14:11	LB134965
	Arsenic	5180	5000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Barium	10200	10000	102	90 - 110	P	03/10/2025	14:11	LB134965
	Beryllium	239	250	96	90 - 110	P	03/10/2025	14:11	LB134965
	Cadmium	2500	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Calcium	24500	25000	98	90 - 110	P	03/10/2025	14:11	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Cobalt	2510	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Copper	1300	1250	104	90 - 110	P	03/10/2025	14:11	LB134965
	Iron	5200	5000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Lead	5010	5000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Magnesium	24300	25000	97	90 - 110	P	03/10/2025	14:11	LB134965
	Manganese	2420	2500	97	90 - 110	P	03/10/2025	14:11	LB134965
	Nickel	2520	2500	101	90 - 110	P	03/10/2025	14:11	LB134965
	Potassium	26600	25000	106	90 - 110	P	03/10/2025	14:11	LB134965
	Selenium	5240	5000	105	90 - 110	P	03/10/2025	14:11	LB134965
	Silver	1280	1250	102	90 - 110	P	03/10/2025	14:11	LB134965
	Sodium	25900	25000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Thallium	5010	5000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Vanadium	2500	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Zinc	2590	2500	104	90 - 110	P	03/10/2025	14:11	LB134965
CCV04	Aluminum	9730	10000	97	90 - 110	P	03/10/2025	15:01	LB134965
	Antimony	5120	5000	102	90 - 110	P	03/10/2025	15:01	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5010	5000	100	90 - 110	P	03/10/2025	15:01	LB134965
	Barium	9950	10000	100	90 - 110	P	03/10/2025	15:01	LB134965
	Beryllium	226	250	90	90 - 110	P	03/10/2025	15:01	LB134965
	Cadmium	2420	2500	97	90 - 110	P	03/10/2025	15:01	LB134965
	Calcium	24000	25000	96	90 - 110	P	03/10/2025	15:01	LB134965
	Chromium	993	1000	99	90 - 110	P	03/10/2025	15:01	LB134965
	Cobalt	2440	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	15:01	LB134965
	Iron	5240	5000	105	90 - 110	P	03/10/2025	15:01	LB134965
	Lead	4860	5000	97	90 - 110	P	03/10/2025	15:01	LB134965
	Magnesium	23700	25000	95	90 - 110	P	03/10/2025	15:01	LB134965
	Manganese	2360	2500	94	90 - 110	P	03/10/2025	15:01	LB134965
	Nickel	2440	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Potassium	26800	25000	107	90 - 110	P	03/10/2025	15:01	LB134965
	Selenium	5050	5000	101	90 - 110	P	03/10/2025	15:01	LB134965
	Silver	1250	1250	100	90 - 110	P	03/10/2025	15:01	LB134965
	Sodium	26100	25000	104	90 - 110	P	03/10/2025	15:01	LB134965
	Thallium	4780	5000	96	90 - 110	P	03/10/2025	15:01	LB134965
	Vanadium	2450	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Zinc	2510	2500	100	90 - 110	P	03/10/2025	15:01	LB134965
CCV05	Aluminum	9800	10000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Antimony	5090	5000	102	90 - 110	P	03/10/2025	15:51	LB134965
	Arsenic	5000	5000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Barium	9730	10000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Beryllium	239	250	96	90 - 110	P	03/10/2025	15:51	LB134965
	Cadmium	2420	2500	97	90 - 110	P	03/10/2025	15:51	LB134965
	Calcium	23800	25000	95	90 - 110	P	03/10/2025	15:51	LB134965
	Chromium	983	1000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Cobalt	2440	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	15:51	LB134965
	Iron	4890	5000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Lead	4850	5000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Magnesium	24000	25000	96	90 - 110	P	03/10/2025	15:51	LB134965
	Manganese	2360	2500	94	90 - 110	P	03/10/2025	15:51	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2450	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Potassium	25000	25000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Selenium	5020	5000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Silver	1250	1250	100	90 - 110	P	03/10/2025	15:51	LB134965
	Sodium	24100	25000	96	90 - 110	P	03/10/2025	15:51	LB134965
	Thallium	4850	5000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Vanadium	2450	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Zinc	2500	2500	100	90 - 110	P	03/10/2025	15:51	LB134965
CCV06	Aluminum	9600	10000	96	90 - 110	P	03/10/2025	16:48	LB134965
	Antimony	5090	5000	102	90 - 110	P	03/10/2025	16:48	LB134965
	Arsenic	4980	5000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Barium	9720	10000	97	90 - 110	P	03/10/2025	16:48	LB134965
	Beryllium	268	250	107	90 - 110	P	03/10/2025	16:48	LB134965
	Cadmium	2410	2500	96	90 - 110	P	03/10/2025	16:48	LB134965
	Calcium	23700	25000	95	90 - 110	P	03/10/2025	16:48	LB134965
	Chromium	977	1000	98	90 - 110	P	03/10/2025	16:48	LB134965
	Cobalt	2430	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	16:48	LB134965
	Iron	5100	5000	102	90 - 110	P	03/10/2025	16:48	LB134965
	Lead	4830	5000	96	90 - 110	P	03/10/2025	16:48	LB134965
	Magnesium	23600	25000	94	90 - 110	P	03/10/2025	16:48	LB134965
	Manganese	2680	2500	107	90 - 110	P	03/10/2025	16:48	LB134965
	Nickel	2440	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Potassium	26100	25000	104	90 - 110	P	03/10/2025	16:48	LB134965
	Selenium	5020	5000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Silver	1240	1250	100	90 - 110	P	03/10/2025	16:48	LB134965
	Sodium	24900	25000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Thallium	4890	5000	98	90 - 110	P	03/10/2025	16:48	LB134965
	Vanadium	2420	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Zinc	2500	2500	100	90 - 110	P	03/10/2025	16:48	LB134965
CCV07	Aluminum	9380	10000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Antimony	5010	5000	100	90 - 110	P	03/10/2025	17:39	LB134965
	Arsenic	4890	5000	98	90 - 110	P	03/10/2025	17:39	LB134965
	Barium	9380	10000	94	90 - 110	P	03/10/2025	17:39	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	259	250	104	90 - 110	P	03/10/2025	17:39	LB134965
	Cadmium	2350	2500	94	90 - 110	P	03/10/2025	17:39	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	17:39	LB134965
	Chromium	942	1000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Cobalt	2370	2500	95	90 - 110	P	03/10/2025	17:39	LB134965
	Copper	1220	1250	98	90 - 110	P	03/10/2025	17:39	LB134965
	Iron	4820	5000	96	90 - 110	P	03/10/2025	17:39	LB134965
	Lead	4710	5000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Magnesium	23000	25000	92	90 - 110	P	03/10/2025	17:39	LB134965
	Manganese	2580	2500	103	90 - 110	P	03/10/2025	17:39	LB134965
	Nickel	2380	2500	95	90 - 110	P	03/10/2025	17:39	LB134965
	Potassium	24600	25000	98	90 - 110	P	03/10/2025	17:39	LB134965
	Selenium	4950	5000	99	90 - 110	P	03/10/2025	17:39	LB134965
	Silver	1190	1250	95	90 - 110	P	03/10/2025	17:39	LB134965
	Sodium	23300	25000	93	90 - 110	P	03/10/2025	17:39	LB134965
	Thallium	4820	5000	96	90 - 110	P	03/10/2025	17:39	LB134965
	Vanadium	2350	2500	94	90 - 110	P	03/10/2025	17:39	LB134965
	Zinc	2410	2500	96	90 - 110	P	03/10/2025	17:39	LB134965
CCV08	Aluminum	9210	10000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Antimony	4880	5000	98	90 - 110	P	03/10/2025	18:29	LB134965
	Arsenic	4780	5000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Barium	9560	10000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Beryllium	259	250	103	90 - 110	P	03/10/2025	18:29	LB134965
	Cadmium	2320	2500	93	90 - 110	P	03/10/2025	18:29	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Chromium	933	1000	93	90 - 110	P	03/10/2025	18:29	LB134965
	Cobalt	2340	2500	94	90 - 110	P	03/10/2025	18:29	LB134965
	Copper	1200	1250	96	90 - 110	P	03/10/2025	18:29	LB134965
	Iron	4930	5000	99	90 - 110	P	03/10/2025	18:29	LB134965
	Lead	4630	5000	93	90 - 110	P	03/10/2025	18:29	LB134965
	Magnesium	22900	25000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Manganese	2610	2500	104	90 - 110	P	03/10/2025	18:29	LB134965
	Nickel	2350	2500	94	90 - 110	P	03/10/2025	18:29	LB134965
	Potassium	25100	25000	100	90 - 110	P	03/10/2025	18:29	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	4800	5000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Silver	1200	1250	96	90 - 110	P	03/10/2025	18:29	LB134965
	Sodium	23800	25000	95	90 - 110	P	03/10/2025	18:29	LB134965
	Thallium	4760	5000	95	90 - 110	P	03/10/2025	18:29	LB134965
	Vanadium	2330	2500	93	90 - 110	P	03/10/2025	18:29	LB134965
	Zinc	2410	2500	96	90 - 110	P	03/10/2025	18:29	LB134965
CCV09	Aluminum	9210	10000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Antimony	4910	5000	98	90 - 110	P	03/10/2025	18:46	LB134965
	Arsenic	4800	5000	96	90 - 110	P	03/10/2025	18:46	LB134965
	Barium	9700	10000	97	90 - 110	P	03/10/2025	18:46	LB134965
	Beryllium	253	250	101	90 - 110	P	03/10/2025	18:46	LB134965
	Cadmium	2320	2500	93	90 - 110	P	03/10/2025	18:46	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Chromium	923	1000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Cobalt	2340	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Copper	1210	1250	97	90 - 110	P	03/10/2025	18:46	LB134965
	Iron	4910	5000	98	90 - 110	P	03/10/2025	18:46	LB134965
	Lead	4630	5000	93	90 - 110	P	03/10/2025	18:46	LB134965
	Magnesium	22700	25000	91	90 - 110	P	03/10/2025	18:46	LB134965
	Manganese	2540	2500	102	90 - 110	P	03/10/2025	18:46	LB134965
	Nickel	2350	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Potassium	25300	25000	101	90 - 110	P	03/10/2025	18:46	LB134965
	Selenium	4840	5000	97	90 - 110	P	03/10/2025	18:46	LB134965
	Silver	1180	1250	95	90 - 110	P	03/10/2025	18:46	LB134965
	Sodium	24000	25000	96	90 - 110	P	03/10/2025	18:46	LB134965
	Thallium	4750	5000	95	90 - 110	P	03/10/2025	18:46	LB134965
	Vanadium	2340	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Zinc	2360	2500	94	90 - 110	P	03/10/2025	18:46	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	95 - 105	P	03/11/2025	10:50	LB134987
	Antimony	1010	1000	101	95 - 105	P	03/11/2025	10:50	LB134987
	Arsenic	1040	1000	104	95 - 105	P	03/11/2025	10:50	LB134987
	Barium	543	520	104	95 - 105	P	03/11/2025	10:50	LB134987
	Beryllium	507	510	99	95 - 105	P	03/11/2025	10:50	LB134987
	Cadmium	511	510	100	95 - 105	P	03/11/2025	10:50	LB134987
	Calcium	10000	10000	100	95 - 105	P	03/11/2025	10:50	LB134987
	Chromium	527	520	101	95 - 105	P	03/11/2025	10:50	LB134987
	Cobalt	520	520	100	95 - 105	P	03/11/2025	10:50	LB134987
	Copper	532	510	104	95 - 105	P	03/11/2025	10:50	LB134987
	Iron	10200	10000	102	95 - 105	P	03/11/2025	10:50	LB134987
	Lead	1020	1000	102	95 - 105	P	03/11/2025	10:50	LB134987
	Magnesium	5970	6000	100	95 - 105	P	03/11/2025	10:50	LB134987
	Manganese	515	520	99	95 - 105	P	03/11/2025	10:50	LB134987
	Nickel	517	530	98	95 - 105	P	03/11/2025	10:50	LB134987
	Potassium	9820	9900	99	95 - 105	P	03/11/2025	10:50	LB134987
	Selenium	1040	1000	104	95 - 105	P	03/11/2025	10:50	LB134987
	Silver	259	250	104	95 - 105	P	03/11/2025	10:50	LB134987
	Sodium	9690	10000	97	95 - 105	P	03/11/2025	10:50	LB134987
	Thallium	1030	1000	103	95 - 105	P	03/11/2025	10:50	LB134987
	Vanadium	524	500	105	95 - 105	P	03/11/2025	10:50	LB134987
	Zinc	1040	1000	104	95 - 105	P	03/11/2025	10:50	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	102	100	102	80 - 120	P	03/11/2025	10:54	LB134987
	Antimony	53.0	50.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Arsenic	21.2	20.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Barium	94.6	100	95	80 - 120	P	03/11/2025	10:54	LB134987
	Beryllium	6.23	6.0	104	80 - 120	P	03/11/2025	10:54	LB134987
	Cadmium	5.80	6.0	97	80 - 120	P	03/11/2025	10:54	LB134987
	Calcium	2010	2000	100	80 - 120	P	03/11/2025	10:54	LB134987
	Chromium	10.2	10.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Cobalt	29.3	30.0	98	80 - 120	P	03/11/2025	10:54	LB134987
	Copper	22.1	20.0	110	80 - 120	P	03/11/2025	10:54	LB134987
	Iron	93.9	100	94	80 - 120	P	03/11/2025	10:54	LB134987
	Lead	12.0	12.0	100	80 - 120	P	03/11/2025	10:54	LB134987
	Magnesium	2130	2000	107	80 - 120	P	03/11/2025	10:54	LB134987
	Manganese	21.2	20.0	106	80 - 120	P	03/11/2025	10:54	LB134987
	Nickel	38.4	40.0	96	80 - 120	P	03/11/2025	10:54	LB134987
	Potassium	1780	2000	89	80 - 120	P	03/11/2025	10:54	LB134987
	Selenium	20.5	20.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Silver	10.4	10.0	104	80 - 120	P	03/11/2025	10:54	LB134987
	Sodium	1850	2000	92	80 - 120	P	03/11/2025	10:54	LB134987
	Thallium	40.9	40.0	102	80 - 120	P	03/11/2025	10:54	LB134987
	Vanadium	39.7	40.0	99	80 - 120	P	03/11/2025	10:54	LB134987
	Zinc	33.7	40.0	84	80 - 120	P	03/11/2025	10:54	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Antimony	5040	5000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Arsenic	5010	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Barium	10200	10000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Beryllium	253	250	101	90 - 110	P	03/11/2025	11:29	LB134987
	Cadmium	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Calcium	25200	25000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Chromium	1010	1000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Cobalt	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Copper	1280	1250	102	90 - 110	P	03/11/2025	11:29	LB134987
	Iron	5080	5000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Lead	5030	5000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Magnesium	25200	25000	101	90 - 110	P	03/11/2025	11:29	LB134987
	Manganese	2520	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Nickel	2510	2500	100	90 - 110	P	03/11/2025	11:29	LB134987
	Potassium	25100	25000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Selenium	4990	5000	100	90 - 110	P	03/11/2025	11:29	LB134987
	Silver	1270	1250	101	90 - 110	P	03/11/2025	11:29	LB134987
	Sodium	24700	25000	99	90 - 110	P	03/11/2025	11:29	LB134987
	Thallium	5090	5000	102	90 - 110	P	03/11/2025	11:29	LB134987
	Vanadium	2530	2500	101	90 - 110	P	03/11/2025	11:29	LB134987
	Zinc	2560	2500	102	90 - 110	P	03/11/2025	11:29	LB134987
CCV02	Aluminum	10300	10000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Antimony	5160	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Arsenic	5150	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Barium	9970	10000	100	90 - 110	P	03/11/2025	12:19	LB134987
	Beryllium	269	250	108	90 - 110	P	03/11/2025	12:19	LB134987
	Cadmium	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Calcium	25300	25000	101	90 - 110	P	03/11/2025	12:19	LB134987
	Chromium	1040	1000	104	90 - 110	P	03/11/2025	12:19	LB134987
	Cobalt	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Copper	1300	1250	104	90 - 110	P	03/11/2025	12:19	LB134987
	Iron	4920	5000	98	90 - 110	P	03/11/2025	12:19	LB134987
	Lead	5120	5000	102	90 - 110	P	03/11/2025	12:19	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	25400	25000	102	90 - 110	P	03/11/2025	12:19	LB134987
	Manganese	2570	2500	103	90 - 110	P	03/11/2025	12:19	LB134987
	Nickel	2550	2500	102	90 - 110	P	03/11/2025	12:19	LB134987
	Potassium	24500	25000	98	90 - 110	P	03/11/2025	12:19	LB134987
	Selenium	5170	5000	103	90 - 110	P	03/11/2025	12:19	LB134987
	Silver	1300	1250	104	90 - 110	P	03/11/2025	12:19	LB134987
	Sodium	25000	25000	100	90 - 110	P	03/11/2025	12:19	LB134987
	Thallium	5220	5000	104	90 - 110	P	03/11/2025	12:19	LB134987
	Vanadium	2540	2500	102	90 - 110	P	03/11/2025	12:19	LB134987
	Zinc	2620	2500	105	90 - 110	P	03/11/2025	12:19	LB134987
CCV03	Aluminum	9640	10000	96	90 - 110	P	03/11/2025	13:10	LB134987
	Antimony	4890	5000	98	90 - 110	P	03/11/2025	13:10	LB134987
	Arsenic	4860	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Barium	9710	10000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Beryllium	251	250	100	90 - 110	P	03/11/2025	13:10	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	13:10	LB134987
	Calcium	23800	25000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Chromium	964	1000	96	90 - 110	P	03/11/2025	13:10	LB134987
	Cobalt	2440	2500	98	90 - 110	P	03/11/2025	13:10	LB134987
	Copper	1250	1250	100	90 - 110	P	03/11/2025	13:10	LB134987
	Iron	4750	5000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Lead	4830	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Magnesium	23800	25000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Manganese	2410	2500	96	90 - 110	P	03/11/2025	13:10	LB134987
	Nickel	2410	2500	96	90 - 110	P	03/11/2025	13:10	LB134987
	Potassium	23700	25000	95	90 - 110	P	03/11/2025	13:10	LB134987
	Selenium	4840	5000	97	90 - 110	P	03/11/2025	13:10	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	13:10	LB134987
	Sodium	23200	25000	93	90 - 110	P	03/11/2025	13:10	LB134987
	Thallium	4890	5000	98	90 - 110	P	03/11/2025	13:10	LB134987
	Vanadium	2420	2500	97	90 - 110	P	03/11/2025	13:10	LB134987
	Zinc	2480	2500	99	90 - 110	P	03/11/2025	13:10	LB134987
CCV04	Aluminum	9730	10000	97	90 - 110	P	03/11/2025	14:08	LB134987
	Antimony	4950	5000	99	90 - 110	P	03/11/2025	14:08	LB134987

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4940	5000	99	90 - 110	P	03/11/2025	14:08	LB134987
	Barium	10100	10000	101	90 - 110	P	03/11/2025	14:08	LB134987
	Beryllium	248	250	99	90 - 110	P	03/11/2025	14:08	LB134987
	Cadmium	2470	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Calcium	24100	25000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Chromium	965	1000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Cobalt	2480	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Copper	1260	1250	101	90 - 110	P	03/11/2025	14:08	LB134987
	Iron	4970	5000	100	90 - 110	P	03/11/2025	14:08	LB134987
	Lead	4880	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
	Magnesium	24200	25000	97	90 - 110	P	03/11/2025	14:08	LB134987
	Manganese	2450	2500	98	90 - 110	P	03/11/2025	14:08	LB134987
	Nickel	2430	2500	97	90 - 110	P	03/11/2025	14:08	LB134987
	Potassium	24900	25000	100	90 - 110	P	03/11/2025	14:08	LB134987
	Selenium	4920	5000	98	90 - 110	P	03/11/2025	14:08	LB134987
	Silver	1240	1250	100	90 - 110	P	03/11/2025	14:08	LB134987
	Sodium	23900	25000	96	90 - 110	P	03/11/2025	14:08	LB134987
	Thallium	5060	5000	101	90 - 110	P	03/11/2025	14:08	LB134987
	Vanadium	2460	2500	99	90 - 110	P	03/11/2025	14:08	LB134987
	Zinc	2530	2500	101	90 - 110	P	03/11/2025	14:08	LB134987
CCV05	Aluminum	9370	10000	94	90 - 110	P	03/11/2025	15:00	LB134987
	Antimony	4830	5000	97	90 - 110	P	03/11/2025	15:00	LB134987
	Arsenic	4810	5000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Barium	9610	10000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Beryllium	237	250	95	90 - 110	P	03/11/2025	15:00	LB134987
	Cadmium	2400	2500	96	90 - 110	P	03/11/2025	15:00	LB134987
	Calcium	23000	25000	92	90 - 110	P	03/11/2025	15:00	LB134987
	Chromium	934	1000	93	90 - 110	P	03/11/2025	15:00	LB134987
	Cobalt	2420	2500	97	90 - 110	P	03/11/2025	15:00	LB134987
	Copper	1240	1250	99	90 - 110	P	03/11/2025	15:00	LB134987
	Iron	4750	5000	95	90 - 110	P	03/11/2025	15:00	LB134987
	Lead	4760	5000	95	90 - 110	P	03/11/2025	15:00	LB134987
	Magnesium	23200	25000	93	90 - 110	P	03/11/2025	15:00	LB134987
	Manganese	2370	2500	95	90 - 110	P	03/11/2025	15:00	LB134987

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2360	2500	94	90 - 110	P	03/11/2025	15:00	LB134987
	Potassium	24000	25000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Selenium	4790	5000	96	90 - 110	P	03/11/2025	15:00	LB134987
	Silver	1190	1250	96	90 - 110	P	03/11/2025	15:00	LB134987
	Sodium	23000	25000	92	90 - 110	P	03/11/2025	15:00	LB134987
	Thallium	4860	5000	97	90 - 110	P	03/11/2025	15:00	LB134987
	Vanadium	2370	2500	95	90 - 110	P	03/11/2025	15:00	LB134987
	Zinc	2430	2500	97	90 - 110	P	03/11/2025	15:00	LB134987
CCV06	Aluminum	9590	10000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Antimony	4830	5000	97	90 - 110	P	03/11/2025	15:50	LB134987
	Arsenic	4820	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Barium	9620	10000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Beryllium	254	250	101	90 - 110	P	03/11/2025	15:50	LB134987
	Cadmium	2430	2500	97	90 - 110	P	03/11/2025	15:50	LB134987
	Calcium	23500	25000	94	90 - 110	P	03/11/2025	15:50	LB134987
	Chromium	956	1000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Cobalt	2440	2500	98	90 - 110	P	03/11/2025	15:50	LB134987
	Copper	1240	1250	99	90 - 110	P	03/11/2025	15:50	LB134987
	Iron	4680	5000	94	90 - 110	P	03/11/2025	15:50	LB134987
	Lead	4800	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Magnesium	23700	25000	95	90 - 110	P	03/11/2025	15:50	LB134987
	Manganese	2420	2500	97	90 - 110	P	03/11/2025	15:50	LB134987
	Nickel	2390	2500	95	90 - 110	P	03/11/2025	15:50	LB134987
	Potassium	23500	25000	94	90 - 110	P	03/11/2025	15:50	LB134987
	Selenium	4770	5000	96	90 - 110	P	03/11/2025	15:50	LB134987
	Silver	1230	1250	98	90 - 110	P	03/11/2025	15:50	LB134987
	Sodium	22800	25000	91	90 - 110	P	03/11/2025	15:50	LB134987
	Thallium	4880	5000	98	90 - 110	P	03/11/2025	15:50	LB134987
	Vanadium	2410	2500	96	90 - 110	P	03/11/2025	15:50	LB134987
	Zinc	2490	2500	100	90 - 110	P	03/11/2025	15:50	LB134987

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.16	0.2	82	40 - 160	CV	02/26/2025	08:52	LB134804
CRA	Mercury	0.17	0.2	86	40 - 160	CV	02/26/2025	11:22	LB134807
CRI01	Aluminum	98.4	100	98	40 - 160	P	02/26/2025	11:45	LB134813
	Antimony	52.2	50.0	104	40 - 160	P	02/26/2025	11:45	LB134813
	Arsenic	22.2	20.0	111	40 - 160	P	02/26/2025	11:45	LB134813
	Barium	87.7	100	88	40 - 160	P	02/26/2025	11:45	LB134813
	Beryllium	6.08	6.0	101	40 - 160	P	02/26/2025	11:45	LB134813
	Cadmium	6.00	6.0	100	40 - 160	P	02/26/2025	11:45	LB134813
	Calcium	1890	2000	94	40 - 160	P	02/26/2025	11:45	LB134813
	Chromium	9.73	10.0	97	40 - 160	P	02/26/2025	11:45	LB134813
	Cobalt	28.8	30.0	96	40 - 160	P	02/26/2025	11:45	LB134813
	Copper	21.2	20.0	106	40 - 160	P	02/26/2025	11:45	LB134813
	Iron	90.4	100	90	40 - 160	P	02/26/2025	11:45	LB134813
	Lead	12.3	12.0	102	40 - 160	P	02/26/2025	11:45	LB134813
	Magnesium	2000	2000	100	40 - 160	P	02/26/2025	11:45	LB134813
	Manganese	19.1	20.0	95	40 - 160	P	02/26/2025	11:45	LB134813
	Nickel	38.6	40.0	97	40 - 160	P	02/26/2025	11:45	LB134813
	Potassium	1820	2000	91	40 - 160	P	02/26/2025	11:45	LB134813
	Selenium	20.8	20.0	104	40 - 160	P	02/26/2025	11:45	LB134813
	Silver	10.5	10.0	105	40 - 160	P	02/26/2025	11:45	LB134813
	Sodium	1700	2000	85	40 - 160	P	02/26/2025	11:45	LB134813
	Thallium	36.0	40.0	90	40 - 160	P	02/26/2025	11:45	LB134813
	Vanadium	37.0	40.0	92	40 - 160	P	02/26/2025	11:45	LB134813
	Zinc	41.7	40.0	104	40 - 160	P	02/26/2025	11:45	LB134813
CRI01	Aluminum	98.9	100	99	40 - 160	P	03/07/2025	10:24	LB134952
	Antimony	52.3	50.0	104	40 - 160	P	03/07/2025	10:24	LB134952
	Arsenic	19.9	20.0	100	40 - 160	P	03/07/2025	10:24	LB134952
	Barium	88.5	100	88	40 - 160	P	03/07/2025	10:24	LB134952
	Beryllium	5.72	6.0	95	40 - 160	P	03/07/2025	10:24	LB134952
	Cadmium	5.71	6.0	95	40 - 160	P	03/07/2025	10:24	LB134952
	Calcium	1900	2000	95	40 - 160	P	03/07/2025	10:24	LB134952
	Chromium	10.6	10.0	106	40 - 160	P	03/07/2025	10:24	LB134952
	Cobalt	28.9	30.0	96	40 - 160	P	03/07/2025	10:24	LB134952
	Copper	22.7	20.0	114	40 - 160	P	03/07/2025	10:24	LB134952
	Iron	91.1	100	91	40 - 160	P	03/07/2025	10:24	LB134952

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	11.3	12.0	94	40 - 160	P	03/07/2025	10:24	LB134952
	Magnesium	2020	2000	101	40 - 160	P	03/07/2025	10:24	LB134952
	Manganese	18.7	20.0	93	40 - 160	P	03/07/2025	10:24	LB134952
	Nickel	38.6	40.0	96	40 - 160	P	03/07/2025	10:24	LB134952
	Potassium	1780	2000	89	40 - 160	P	03/07/2025	10:24	LB134952
	Selenium	21.0	20.0	105	40 - 160	P	03/07/2025	10:24	LB134952
	Silver	11.0	10.0	110	40 - 160	P	03/07/2025	10:24	LB134952
	Sodium	1760	2000	88	40 - 160	P	03/07/2025	10:24	LB134952
	Thallium	41.0	40.0	102	40 - 160	P	03/07/2025	10:24	LB134952
	Vanadium	40.2	40.0	101	40 - 160	P	03/07/2025	10:24	LB134952
	Zinc	41.1	40.0	103	40 - 160	P	03/07/2025	10:24	LB134952
CRI01	Aluminum	98.3	100	98	40 - 160	P	03/10/2025	12:01	LB134965
	Antimony	49.7	50.0	100	40 - 160	P	03/10/2025	12:01	LB134965
	Arsenic	18.2	20.0	91	40 - 160	P	03/10/2025	12:01	LB134965
	Barium	90.9	100	91	40 - 160	P	03/10/2025	12:01	LB134965
	Beryllium	5.47	6.0	91	40 - 160	P	03/10/2025	12:01	LB134965
	Cadmium	5.67	6.0	94	40 - 160	P	03/10/2025	12:01	LB134965
	Calcium	1900	2000	95	40 - 160	P	03/10/2025	12:01	LB134965
	Chromium	10.4	10.0	104	40 - 160	P	03/10/2025	12:01	LB134965
	Cobalt	28.3	30.0	94	40 - 160	P	03/10/2025	12:01	LB134965
	Copper	21.4	20.0	107	40 - 160	P	03/10/2025	12:01	LB134965
	Iron	111	100	111	40 - 160	P	03/10/2025	12:01	LB134965
	Lead	12.0	12.0	100	40 - 160	P	03/10/2025	12:01	LB134965
	Magnesium	1980	2000	99	40 - 160	P	03/10/2025	12:01	LB134965
	Manganese	19.3	20.0	96	40 - 160	P	03/10/2025	12:01	LB134965
	Nickel	37.9	40.0	95	40 - 160	P	03/10/2025	12:01	LB134965
	Potassium	1950	2000	97	40 - 160	P	03/10/2025	12:01	LB134965
	Selenium	21.0	20.0	105	40 - 160	P	03/10/2025	12:01	LB134965
	Silver	10.2	10.0	102	40 - 160	P	03/10/2025	12:01	LB134965
	Sodium	1810	2000	91	40 - 160	P	03/10/2025	12:01	LB134965
	Thallium	39.5	40.0	99	40 - 160	P	03/10/2025	12:01	LB134965
	Vanadium	36.7	40.0	92	40 - 160	P	03/10/2025	12:01	LB134965
	Zinc	41.3	40.0	103	40 - 160	P	03/10/2025	12:01	LB134965
CRI01	Aluminum	99.1	100	99	40 - 160	P	03/11/2025	11:02	LB134987
	Antimony	52.5	50.0	105	40 - 160	P	03/11/2025	11:02	LB134987
	Arsenic	19.0	20.0	95	40 - 160	P	03/11/2025	11:02	LB134987
	Barium	95.1	100	95	40 - 160	P	03/11/2025	11:02	LB134987
	Beryllium	5.91	6.0	98	40 - 160	P	03/11/2025	11:02	LB134987

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Cadmium	5.81	6.0	97	40 - 160	P	03/11/2025	11:02	LB134987
	Calcium	2000	2000	100	40 - 160	P	03/11/2025	11:02	LB134987
	Chromium	9.83	10.0	98	40 - 160	P	03/11/2025	11:02	LB134987
	Cobalt	29.2	30.0	97	40 - 160	P	03/11/2025	11:02	LB134987
	Copper	22.1	20.0	110	40 - 160	P	03/11/2025	11:02	LB134987
	Iron	89.9	100	90	40 - 160	P	03/11/2025	11:02	LB134987
	Lead	11.9	12.0	99	40 - 160	P	03/11/2025	11:02	LB134987
	Magnesium	2130	2000	106	40 - 160	P	03/11/2025	11:02	LB134987
	Manganese	21.6	20.0	108	40 - 160	P	03/11/2025	11:02	LB134987
	Nickel	38.2	40.0	96	40 - 160	P	03/11/2025	11:02	LB134987
	Potassium	1860	2000	93	40 - 160	P	03/11/2025	11:02	LB134987
	Selenium	21.9	20.0	110	40 - 160	P	03/11/2025	11:02	LB134987
	Silver	10.3	10.0	103	40 - 160	P	03/11/2025	11:02	LB134987
	Sodium	1940	2000	97	40 - 160	P	03/11/2025	11:02	LB134987
	Thallium	41.5	40.0	104	40 - 160	P	03/11/2025	11:02	LB134987
	Vanadium	39.1	40.0	98	40 - 160	P	03/11/2025	11:02	LB134987
	Zinc	33.2	40.0	83	40 - 160	P	03/11/2025	11:02	LB134987

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	238000	255000	93	216000	294000	02/26/2025	11:50	LB134813
	Antimony	-0.14			-50	50	02/26/2025	11:50	LB134813
	Arsenic	3.32			-20	20	02/26/2025	11:50	LB134813
	Barium	1.39	6.0	23	-94	106	02/26/2025	11:50	LB134813
	Beryllium	1.56			-6	6	02/26/2025	11:50	LB134813
	Cadmium	0.23	1.0	22	-5	7	02/26/2025	11:50	LB134813
	Calcium	223000	245000	91	208000	282000	02/26/2025	11:50	LB134813
	Chromium	57.4	52.0	110	42	62	02/26/2025	11:50	LB134813
	Cobalt	2.01			-30	30	02/26/2025	11:50	LB134813
	Copper	13.8	2.0	690	-18	22	02/26/2025	11:50	LB134813
	Iron	98700	101000	98	85600	116500	02/26/2025	11:50	LB134813
	Lead	7.92			-12	12	02/26/2025	11:50	LB134813
	Magnesium	242000	255000	95	216000	294000	02/26/2025	11:50	LB134813
	Manganese	0.96	7.0	14	-13	27	02/26/2025	11:50	LB134813
	Nickel	1.59	2.0	80	-38	42	02/26/2025	11:50	LB134813
	Potassium	8.26			0	0	02/26/2025	11:50	LB134813
	Selenium	-13.4			-20	20	02/26/2025	11:50	LB134813
	Silver	-0.70			-10	10	02/26/2025	11:50	LB134813
	Sodium	52.6			0	0	02/26/2025	11:50	LB134813
	Thallium	-5.93			-40	40	02/26/2025	11:50	LB134813
	Vanadium	7.83			-40	40	02/26/2025	11:50	LB134813
	Zinc	5.63			-40	40	02/26/2025	11:50	LB134813
ICSAB01	Aluminum	240000	247000	97	209000	285000	02/26/2025	11:54	LB134813
	Antimony	628	618	102	525	711	02/26/2025	11:54	LB134813
	Arsenic	114	104	110	88.4	120	02/26/2025	11:54	LB134813
	Barium	460	537	86	437	637	02/26/2025	11:54	LB134813
	Beryllium	480	495	97	420	570	02/26/2025	11:54	LB134813
	Cadmium	1000	972	103	826	1120	02/26/2025	11:54	LB134813
	Calcium	223000	235000	95	199000	271000	02/26/2025	11:54	LB134813
	Chromium	566	542	104	460	624	02/26/2025	11:54	LB134813
	Cobalt	504	476	106	404	548	02/26/2025	11:54	LB134813
	Copper	501	511	98	434	588	02/26/2025	11:54	LB134813
	Iron	96100	99300	97	84400	114500	02/26/2025	11:54	LB134813
	Lead	55.8	49.0	114	37	61	02/26/2025	11:54	LB134813
	Magnesium	242000	248000	98	210000	286000	02/26/2025	11:54	LB134813
	Manganese	445	507	88	430	584	02/26/2025	11:54	LB134813
	Nickel	993	954	104	810	1100	02/26/2025	11:54	LB134813
	Potassium	2.36			0	0	02/26/2025	11:54	LB134813
	Selenium	37.9	46.0	82	26	66	02/26/2025	11:54	LB134813
	Silver	219	201	109	170	232	02/26/2025	11:54	LB134813
	Sodium	44.2			0	0	02/26/2025	11:54	LB134813
	Thallium	96.0	108	89	68	148	02/26/2025	11:54	LB134813

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	460	491	94	417	565	02/26/2025	11:54	LB134813
	Zinc	1050	952	110	809	1095	02/26/2025	11:54	LB134813
ICSA01	Aluminum	245000	255000	96	216000	294000	03/07/2025	10:28	LB134952
	Antimony	-4.94			-50	50	03/07/2025	10:28	LB134952
	Arsenic	4.35			-20	20	03/07/2025	10:28	LB134952
	Barium	1.40	6.0	23	-94	106	03/07/2025	10:28	LB134952
	Beryllium	1.23			-6	6	03/07/2025	10:28	LB134952
	Cadmium	-2.65	1.0	265	-5	7	03/07/2025	10:28	LB134952
	Calcium	219000	245000	89	208000	282000	03/07/2025	10:28	LB134952
	Chromium	60.2	52.0	116	42	62	03/07/2025	10:28	LB134952
	Cobalt	2.23			-30	30	03/07/2025	10:28	LB134952
	Copper	17.5	2.0	875	-18	22	03/07/2025	10:28	LB134952
	Iron	97000	101000	96	85600	116500	03/07/2025	10:28	LB134952
	Lead	3.61			-12	12	03/07/2025	10:28	LB134952
	Magnesium	238000	255000	93	216000	294000	03/07/2025	10:28	LB134952
	Manganese	11.2	7.0	160	-13	27	03/07/2025	10:28	LB134952
	Nickel	1.71	2.0	86	-38	42	03/07/2025	10:28	LB134952
	Potassium	-49.0			0	0	03/07/2025	10:28	LB134952
	Selenium	1.45			-20	20	03/07/2025	10:28	LB134952
	Silver	-1.84			-10	10	03/07/2025	10:28	LB134952
	Sodium	2.32			0	0	03/07/2025	10:28	LB134952
	Thallium	6.66			-40	40	03/07/2025	10:28	LB134952
	Vanadium	3.78			-40	40	03/07/2025	10:28	LB134952
	Zinc	4.59			-40	40	03/07/2025	10:28	LB134952
ICSAB01	Aluminum	247000	247000	100	209000	285000	03/07/2025	10:33	LB134952
	Antimony	635	618	103	525	711	03/07/2025	10:33	LB134952
	Arsenic	118	104	114	88.4	120	03/07/2025	10:33	LB134952
	Barium	445	537	83	437	637	03/07/2025	10:33	LB134952
	Beryllium	447	495	90	420	570	03/07/2025	10:33	LB134952
	Cadmium	971	972	100	826	1120	03/07/2025	10:33	LB134952
	Calcium	217000	235000	92	199000	271000	03/07/2025	10:33	LB134952
	Chromium	596	542	110	460	624	03/07/2025	10:33	LB134952
	Cobalt	491	476	103	404	548	03/07/2025	10:33	LB134952
	Copper	518	511	101	434	588	03/07/2025	10:33	LB134952
	Iron	97200	99300	98	84400	114500	03/07/2025	10:33	LB134952
	Lead	50.3	49.0	103	37	61	03/07/2025	10:33	LB134952
	Magnesium	235000	248000	95	210000	286000	03/07/2025	10:33	LB134952
	Manganese	436	507	86	430	584	03/07/2025	10:33	LB134952
	Nickel	964	954	101	810	1100	03/07/2025	10:33	LB134952
	Potassium	-48.8			0	0	03/07/2025	10:33	LB134952
	Selenium	55.9	46.0	122	26	66	03/07/2025	10:33	LB134952
	Silver	215	201	107	170	232	03/07/2025	10:33	LB134952

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	24.0			0	0	03/07/2025	10:33	LB134952
	Thallium	104	108	96	68	148	03/07/2025	10:33	LB134952
	Vanadium	450	491	92	417	565	03/07/2025	10:33	LB134952
	Zinc	1060	952	111	809	1095	03/07/2025	10:33	LB134952
ICSA	Aluminum	251000	255000	98	216000	294000	03/07/2025	10:37	LB134952
	Antimony	-23.4			-50	50	03/07/2025	10:37	LB134952
	Arsenic	-24.1			-20	20	03/07/2025	10:37	LB134952
	Barium	-54.2	6.0	903	-94	106	03/07/2025	10:37	LB134952
	Beryllium	2.78			-6	6	03/07/2025	10:37	LB134952
	Cadmium	-3.30	1.0	330	-5	7	03/07/2025	10:37	LB134952
	Calcium	234000	245000	96	208000	282000	03/07/2025	10:37	LB134952
	Chromium	62.9	52.0	121	42	62	03/07/2025	10:37	LB134952
	Cobalt	4.81			-30	30	03/07/2025	10:37	LB134952
	Copper	11.4	2.0	570	-18	22	03/07/2025	10:37	LB134952
	Iron	96900	101000	96	85600	116500	03/07/2025	10:37	LB134952
	Lead	-19.7			-12	12	03/07/2025	10:37	LB134952
	Magnesium	242000	255000	95	216000	294000	03/07/2025	10:37	LB134952
	Manganese	3.27	7.0	47	-13	27	03/07/2025	10:37	LB134952
	Nickel	2.56	2.0	128	-38	42	03/07/2025	10:37	LB134952
	Potassium	-2580			0	0	03/07/2025	10:37	LB134952
	Selenium	-13.7			-20	20	03/07/2025	10:37	LB134952
	Silver	11.0			-10	10	03/07/2025	10:37	LB134952
	Sodium	-1280			0	0	03/07/2025	10:37	LB134952
	Thallium	-19.9			-40	40	03/07/2025	10:37	LB134952
	Vanadium	19.8			-40	40	03/07/2025	10:37	LB134952
	Zinc	58.4			-40	40	03/07/2025	10:37	LB134952
ICSAB	Aluminum	244000	247000	99	209000	285000	03/07/2025	10:41	LB134952
	Antimony	599	618	97	525	711	03/07/2025	10:41	LB134952
	Arsenic	73.0	104	70	88.4	120	03/07/2025	10:41	LB134952
	Barium	400	537	74	437	637	03/07/2025	10:41	LB134952
	Beryllium	485	495	98	420	570	03/07/2025	10:41	LB134952
	Cadmium	971	972	100	826	1120	03/07/2025	10:41	LB134952
	Calcium	229000	235000	97	199000	271000	03/07/2025	10:41	LB134952
	Chromium	618	542	114	460	624	03/07/2025	10:41	LB134952
	Cobalt	489	476	103	404	548	03/07/2025	10:41	LB134952
	Copper	545	511	107	434	588	03/07/2025	10:41	LB134952
	Iron	96000	99300	97	84400	114500	03/07/2025	10:41	LB134952
	Lead	41.5	49.0	85	37	61	03/07/2025	10:41	LB134952
	Magnesium	238000	248000	96	210000	286000	03/07/2025	10:41	LB134952
	Manganese	460	507	91	430	584	03/07/2025	10:41	LB134952
	Nickel	977	954	102	810	1100	03/07/2025	10:41	LB134952
	Potassium	-2130			0	0	03/07/2025	10:41	LB134952

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Selenium	78.7	46.0	171	26	66	03/07/2025	10:41	LB134952
	Silver	222	201	110	170	232	03/07/2025	10:41	LB134952
	Sodium	-1110			0	0	03/07/2025	10:41	LB134952
	Thallium	100	108	93	68	148	03/07/2025	10:41	LB134952
	Vanadium	489	491	100	417	565	03/07/2025	10:41	LB134952
	Zinc	1050	952	110	809	1095	03/07/2025	10:41	LB134952
ICSA01	Aluminum	249000	255000	98	216000	294000	03/10/2025	12:05	LB134965
	Antimony	-1.69			-50	50	03/10/2025	12:05	LB134965
	Arsenic	3.58			-20	20	03/10/2025	12:05	LB134965
	Barium	1.50	6.0	25	-94	106	03/10/2025	12:05	LB134965
	Beryllium	1.23			-6	6	03/10/2025	12:05	LB134965
	Cadmium	-4.00	1.0	400	-5	7	03/10/2025	12:05	LB134965
	Calcium	230000	245000	94	208000	282000	03/10/2025	12:05	LB134965
	Chromium	59.3	52.0	114	42	62	03/10/2025	12:05	LB134965
	Cobalt	1.96			-30	30	03/10/2025	12:05	LB134965
	Copper	9.85	2.0	492	-18	22	03/10/2025	12:05	LB134965
	Iron	101000	101000	100	85600	116500	03/10/2025	12:05	LB134965
	Lead	6.57			-12	12	03/10/2025	12:05	LB134965
	Magnesium	246000	255000	96	216000	294000	03/10/2025	12:05	LB134965
	Manganese	3.05	7.0	44	-13	27	03/10/2025	12:05	LB134965
	Nickel	2.12	2.0	106	-38	42	03/10/2025	12:05	LB134965
	Potassium	80.0			0	0	03/10/2025	12:05	LB134965
	Selenium	-12.1			-20	20	03/10/2025	12:05	LB134965
	Silver	-0.43			-10	10	03/10/2025	12:05	LB134965
	Sodium	30.5			0	0	03/10/2025	12:05	LB134965
	Thallium	7.69			-40	40	03/10/2025	12:05	LB134965
	Vanadium	4.01			-40	40	03/10/2025	12:05	LB134965
	Zinc	2.96			-40	40	03/10/2025	12:05	LB134965
ICSAB01	Aluminum	248000	247000	100	209000	285000	03/10/2025	12:10	LB134965
	Antimony	630	618	102	525	711	03/10/2025	12:10	LB134965
	Arsenic	110	104	106	88.4	120	03/10/2025	12:10	LB134965
	Barium	483	537	90	437	637	03/10/2025	12:10	LB134965
	Beryllium	489	495	99	420	570	03/10/2025	12:10	LB134965
	Cadmium	1020	972	105	826	1120	03/10/2025	12:10	LB134965
	Calcium	233000	235000	99	199000	271000	03/10/2025	12:10	LB134965
	Chromium	581	542	107	460	624	03/10/2025	12:10	LB134965
	Cobalt	516	476	108	404	548	03/10/2025	12:10	LB134965
	Copper	518	511	101	434	588	03/10/2025	12:10	LB134965
	Iron	102000	99300	103	84400	114500	03/10/2025	12:10	LB134965
	Lead	56.3	49.0	115	37	61	03/10/2025	12:10	LB134965
	Magnesium	250000	248000	101	210000	286000	03/10/2025	12:10	LB134965
	Manganese	475	507	94	430	584	03/10/2025	12:10	LB134965

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Nickel	1020	954	107	810	1100	03/10/2025	12:10	LB134965
	Potassium	87.8			0	0	03/10/2025	12:10	LB134965
	Selenium	34.1	46.0	74	26	66	03/10/2025	12:10	LB134965
	Silver	221	201	110	170	232	03/10/2025	12:10	LB134965
	Sodium	58.9			0	0	03/10/2025	12:10	LB134965
	Thallium	108	108	100	68	148	03/10/2025	12:10	LB134965
	Vanadium	471	491	96	417	565	03/10/2025	12:10	LB134965
	Zinc	1070	952	112	809	1095	03/10/2025	12:10	LB134965
ICSA	Aluminum	251000	255000	98	216000	294000	03/10/2025	12:14	LB134965
	Antimony	20.2			-50	50	03/10/2025	12:14	LB134965
	Arsenic	-14.7			-20	20	03/10/2025	12:14	LB134965
	Barium	-43.1	6.0	718	-94	106	03/10/2025	12:14	LB134965
	Beryllium	2.64			-6	6	03/10/2025	12:14	LB134965
	Cadmium	-4.52	1.0	452	-5	7	03/10/2025	12:14	LB134965
	Calcium	247000	245000	101	208000	282000	03/10/2025	12:14	LB134965
	Chromium	70.6	52.0	136	42	62	03/10/2025	12:14	LB134965
	Cobalt	-0.080			-30	30	03/10/2025	12:14	LB134965
	Copper	3.14	2.0	157	-18	22	03/10/2025	12:14	LB134965
	Iron	102000	101000	101	85600	116500	03/10/2025	12:14	LB134965
	Lead	-1.76			-12	12	03/10/2025	12:14	LB134965
	Magnesium	256000	255000	100	216000	294000	03/10/2025	12:14	LB134965
	Manganese	0.42	7.0	6	-13	27	03/10/2025	12:14	LB134965
	Nickel	0.77	2.0	38	-38	42	03/10/2025	12:14	LB134965
	Potassium	574			0	0	03/10/2025	12:14	LB134965
	Selenium	12.6			-20	20	03/10/2025	12:14	LB134965
	Silver	-0.060			-10	10	03/10/2025	12:14	LB134965
	Sodium	-62.5			0	0	03/10/2025	12:14	LB134965
	Thallium	21.0			-40	40	03/10/2025	12:14	LB134965
	Vanadium	-1.84			-40	40	03/10/2025	12:14	LB134965
	Zinc	49.6			-40	40	03/10/2025	12:14	LB134965
ICSAB	Aluminum	248000	247000	100	209000	285000	03/10/2025	12:18	LB134965
	Antimony	618	618	100	525	711	03/10/2025	12:18	LB134965
	Arsenic	78.1	104	75	88.4	120	03/10/2025	12:18	LB134965
	Barium	450	537	84	437	637	03/10/2025	12:18	LB134965
	Beryllium	509	495	103	420	570	03/10/2025	12:18	LB134965
	Cadmium	1010	972	104	826	1120	03/10/2025	12:18	LB134965
	Calcium	245000	235000	104	199000	271000	03/10/2025	12:18	LB134965
	Chromium	600	542	111	460	624	03/10/2025	12:18	LB134965
	Cobalt	508	476	107	404	548	03/10/2025	12:18	LB134965
	Copper	531	511	104	434	588	03/10/2025	12:18	LB134965
	Iron	103000	99300	104	84400	114500	03/10/2025	12:18	LB134965
	Lead	48.2	49.0	98	37	61	03/10/2025	12:18	LB134965

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Magnesium	253000	248000	102	210000	286000	03/10/2025	12:18	LB134965
	Manganese	505	507	100	430	584	03/10/2025	12:18	LB134965
	Nickel	1020	954	107	810	1100	03/10/2025	12:18	LB134965
	Potassium	795			0	0	03/10/2025	12:18	LB134965
	Selenium	19.5	46.0	42	26	66	03/10/2025	12:18	LB134965
	Silver	211	201	105	170	232	03/10/2025	12:18	LB134965
	Sodium	-210			0	0	03/10/2025	12:18	LB134965
	Thallium	96.1	108	89	68	148	03/10/2025	12:18	LB134965
	Vanadium	478	491	97	417	565	03/10/2025	12:18	LB134965
	Zinc	1060	952	111	809	1095	03/10/2025	12:18	LB134965
ICSA01	Aluminum	248000	255000	97	216000	294000	03/11/2025	11:06	LB134987
	Antimony	-2.80			-50	50	03/11/2025	11:06	LB134987
	Arsenic	6.46			-20	20	03/11/2025	11:06	LB134987
	Barium	5.32	6.0	89	-94	106	03/11/2025	11:06	LB134987
	Beryllium	1.26			-6	6	03/11/2025	11:06	LB134987
	Cadmium	-2.31	1.0	231	-5	7	03/11/2025	11:06	LB134987
	Calcium	237000	245000	97	208000	282000	03/11/2025	11:06	LB134987
	Chromium	58.2	52.0	112	42	62	03/11/2025	11:06	LB134987
	Cobalt	1.96			-30	30	03/11/2025	11:06	LB134987
	Copper	6.76	2.0	338	-18	22	03/11/2025	11:06	LB134987
	Iron	102000	101000	101	85600	116500	03/11/2025	11:06	LB134987
	Lead	3.81			-12	12	03/11/2025	11:06	LB134987
	Magnesium	258000	255000	101	216000	294000	03/11/2025	11:06	LB134987
	Manganese	5.00	7.0	71	-13	27	03/11/2025	11:06	LB134987
	Nickel	1.76	2.0	88	-38	42	03/11/2025	11:06	LB134987
	Potassium	-40.0			0	0	03/11/2025	11:06	LB134987
	Selenium	-16.3			-20	20	03/11/2025	11:06	LB134987
	Silver	-0.94			-10	10	03/11/2025	11:06	LB134987
	Sodium	60.3			0	0	03/11/2025	11:06	LB134987
	Thallium	9.64			-40	40	03/11/2025	11:06	LB134987
	Vanadium	3.52			-40	40	03/11/2025	11:06	LB134987
	Zinc	-3.79			-40	40	03/11/2025	11:06	LB134987
ICSAB01	Aluminum	249000	247000	101	209000	285000	03/11/2025	11:11	LB134987
	Antimony	612	618	99	525	711	03/11/2025	11:11	LB134987
	Arsenic	114	104	110	88.4	120	03/11/2025	11:11	LB134987
	Barium	487	537	91	437	637	03/11/2025	11:11	LB134987
	Beryllium	521	495	105	420	570	03/11/2025	11:11	LB134987
	Cadmium	1020	972	105	826	1120	03/11/2025	11:11	LB134987
	Calcium	235000	235000	100	199000	271000	03/11/2025	11:11	LB134987
	Chromium	567	542	105	460	624	03/11/2025	11:11	LB134987
	Cobalt	518	476	109	404	548	03/11/2025	11:11	LB134987
	Copper	507	511	99	434	588	03/11/2025	11:11	LB134987

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Iron	97400	99300	98	84400	114500	03/11/2025	11:11	LB134987
	Lead	55.7	49.0	114	37	61	03/11/2025	11:11	LB134987
	Magnesium	256000	248000	103	210000	286000	03/11/2025	11:11	LB134987
	Manganese	489	507	96	430	584	03/11/2025	11:11	LB134987
	Nickel	1020	954	107	810	1100	03/11/2025	11:11	LB134987
	Potassium	-41.6			0	0	03/11/2025	11:11	LB134987
	Selenium	32.4	46.0	70	26	66	03/11/2025	11:11	LB134987
	Silver	220	201	110	170	232	03/11/2025	11:11	LB134987
	Sodium	56.3			0	0	03/11/2025	11:11	LB134987
	Thallium	105	108	97	68	148	03/11/2025	11:11	LB134987
	Vanadium	478	491	97	417	565	03/11/2025	11:11	LB134987
	Zinc	1070	952	112	809	1095	03/11/2025	11:11	LB134987
ICSA	Aluminum	249000	255000	98	216000	294000	03/11/2025	11:15	LB134987
	Antimony	17.0			-50	50	03/11/2025	11:15	LB134987
	Arsenic	-14.8			-20	20	03/11/2025	11:15	LB134987
	Barium	21.6	6.0	360	-94	106	03/11/2025	11:15	LB134987
	Beryllium	0.62			-6	6	03/11/2025	11:15	LB134987
	Cadmium	-2.80	1.0	280	-5	7	03/11/2025	11:15	LB134987
	Calcium	248000	245000	101	208000	282000	03/11/2025	11:15	LB134987
	Chromium	54.3	52.0	104	42	62	03/11/2025	11:15	LB134987
	Cobalt	2.27			-30	30	03/11/2025	11:15	LB134987
	Copper	2.78	2.0	139	-18	22	03/11/2025	11:15	LB134987
	Iron	101000	101000	100	85600	116500	03/11/2025	11:15	LB134987
	Lead	-10.6			-12	12	03/11/2025	11:15	LB134987
	Magnesium	256000	255000	100	216000	294000	03/11/2025	11:15	LB134987
	Manganese	15.2	7.0	217	-13	27	03/11/2025	11:15	LB134987
	Nickel	0.028	2.0	1	-38	42	03/11/2025	11:15	LB134987
	Potassium	-1270			0	0	03/11/2025	11:15	LB134987
	Selenium	11.4			-20	20	03/11/2025	11:15	LB134987
	Silver	-0.14			-10	10	03/11/2025	11:15	LB134987
	Sodium	393			0	0	03/11/2025	11:15	LB134987
	Thallium	-21.7			-40	40	03/11/2025	11:15	LB134987
	Vanadium	-9.26			-40	40	03/11/2025	11:15	LB134987
	Zinc	-177			-40	40	03/11/2025	11:15	LB134987
ICSAB	Aluminum	253000	247000	102	209000	285000	03/11/2025	11:19	LB134987
	Antimony	626	618	101	525	711	03/11/2025	11:19	LB134987
	Arsenic	77.1	104	74	88.4	120	03/11/2025	11:19	LB134987
	Barium	468	537	87	437	637	03/11/2025	11:19	LB134987
	Beryllium	545	495	110	420	570	03/11/2025	11:19	LB134987
	Cadmium	1020	972	105	826	1120	03/11/2025	11:19	LB134987
	Calcium	249000	235000	106	199000	271000	03/11/2025	11:19	LB134987
	Chromium	596	542	110	460	624	03/11/2025	11:19	LB134987

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB	Cobalt	516	476	108	404	548	03/11/2025	11:19	LB134987
	Copper	543	511	106	434	588	03/11/2025	11:19	LB134987
	Iron	96400	99300	97	84400	114500	03/11/2025	11:19	LB134987
	Lead	71.4	49.0	146	37	61	03/11/2025	11:19	LB134987
	Magnesium	257000	248000	104	210000	286000	03/11/2025	11:19	LB134987
	Manganese	547	507	108	430	584	03/11/2025	11:19	LB134987
	Nickel	1020	954	107	810	1100	03/11/2025	11:19	LB134987
	Potassium	-1050			0	0	03/11/2025	11:19	LB134987
	Selenium	32.7	46.0	71	26	66	03/11/2025	11:19	LB134987
	Silver	214	201	106	170	232	03/11/2025	11:19	LB134987
	Sodium	303			0	0	03/11/2025	11:19	LB134987
	Thallium	82.2	108	76	68	148	03/11/2025	11:19	LB134987
	Vanadium	530	491	108	417	565	03/11/2025	11:19	LB134987
	Zinc	906	952	95	809	1095	03/11/2025	11:19	LB134987

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Water **sample id:** Q1409-01 **client id:** SURFACE-WATER-1MS

Percent Solids for Sample: NA **Spiked ID:** Q1409-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.72		0.20	U	4.0	93		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Water **sample id:** Q1409-01 **client id:** SURFACE-WATER-1MSD

Percent Solids for Sample: NA **Spiked ID:** Q1409-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.74		0.20	U	4.0	94		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Solid **sample id:** Q1413-01 **client id:** BU-2-022125MS

Percent Solids for Sample: 94.4 **Spiked ID:** Q1413-01MS **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1350		1020		91.7	354		P
Antimony	mg/Kg	75 - 125	22.8		2.26	U	36.7	62	N	P
Arsenic	mg/Kg	75 - 125	33.2		1.26		36.7	87		P
Barium	mg/Kg	75 - 125	13.0		5.31		9.2	84		P
Beryllium	mg/Kg	75 - 125	8.31		0.21	J	9.2	88		P
Cadmium	mg/Kg	75 - 125	8.20		0.27	U	9.2	89		P
Calcium	mg/Kg	75 - 125	3010		1330		45.9	3653		P
Chromium	mg/Kg	75 - 125	24.3		6.38		18.3	98		P
Cobalt	mg/Kg	75 - 125	9.23		0.76	J	9.2	92		P
Copper	mg/Kg	75 - 125	16.8		4.10		13.8	92		P
Iron	mg/Kg	75 - 125	6040		5440		140	431		P
Lead	mg/Kg	75 - 125	47.9		6.42		45.9	90		P
Magnesium	mg/Kg	75 - 125	714		645		91.7	75		P
Manganese	mg/Kg	75 - 125	37.8		27.6		9.2	111		P
Nickel	mg/Kg	75 - 125	22.5		1.62	J	22.9	91		P
Potassium	mg/Kg	75 - 125	805		294		460	111		P
Selenium	mg/Kg	75 - 125	71.6		0.91	U	91.7	78		P
Silver	mg/Kg	75 - 125	3.14		0.45	U	3.4	92		P
Sodium	mg/Kg	75 - 125	253		130		140	88		P
Thallium	mg/Kg	75 - 125	78.1		1.81	U	91.7	85		P
Vanadium	mg/Kg	75 - 125	18.5		6.24		13.8	89		P
Zinc	mg/Kg	75 - 125	17.8		8.39		9.2	102		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Solid **sample id:** Q1413-01 **client id:** BU-2-022125MSD

Percent Solids for Sample: 94.4 **Spiked ID:** Q1413-01MSD **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	1460		1020		99.5	441		P
Antimony	mg/Kg	75 - 125	24.9		2.26	U	39.8	63	N	P
Arsenic	mg/Kg	75 - 125	36.1		1.26		39.8	88		P
Barium	mg/Kg	75 - 125	14.0		5.31		9.9	87		P
Beryllium	mg/Kg	75 - 125	9.15		0.21	J	9.9	90		P
Cadmium	mg/Kg	75 - 125	8.92		0.27	U	9.9	90		P
Calcium	mg/Kg	75 - 125	3220		1330		49.7	3796		P
Chromium	mg/Kg	75 - 125	26.2		6.38		19.9	100		P
Cobalt	mg/Kg	75 - 125	9.96		0.76	J	9.9	93		P
Copper	mg/Kg	75 - 125	18.4		4.10		14.9	96		P
Iron	mg/Kg	75 - 125	6290		5440		150	568		P
Lead	mg/Kg	75 - 125	51.5		6.42		49.7	91		P
Magnesium	mg/Kg	75 - 125	763		645		99.5	119		P
Manganese	mg/Kg	75 - 125	40.2		27.6		9.9	127	N	P
Nickel	mg/Kg	75 - 125	24.3		1.62	J	24.9	91		P
Potassium	mg/Kg	75 - 125	862		294		500	114		P
Selenium	mg/Kg	75 - 125	78.5		0.91	U	99.5	79		P
Silver	mg/Kg	75 - 125	3.34		0.45	U	3.7	90		P
Sodium	mg/Kg	75 - 125	270		130		150	94		P
Thallium	mg/Kg	75 - 125	87.4		1.81	U	99.5	88		P
Vanadium	mg/Kg	75 - 125	19.8		6.24		14.9	91		P
Zinc	mg/Kg	75 - 125	19.5		8.39		9.9	112		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Water **sample id:** Q1415-06 **client id:** B-173-GW01MS

Percent Solids for Sample: NA **Spiked ID:** Q1415-06MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	45300		42100		2000	161		P
Antimony	ug/L	75 - 125	533		50.0	U	800	67	N	P
Arsenic	ug/L	75 - 125	829		16.1	J	800	102		P
Barium	ug/L	75 - 125	721		508		200	107		P
Beryllium	ug/L	75 - 125	192		3.13	J	200	95		P
Cadmium	ug/L	75 - 125	213		6.00	U	200	106		P
Calcium	ug/L	75 - 125	105000		99700		1000	562		P
Chromium	ug/L	75 - 125	575		187		400	97		P
Cobalt	ug/L	75 - 125	257		40.0		200	109		P
Copper	ug/L	75 - 125	598		290		300	103		P
Iron	ug/L	75 - 125	85200		77800		3000	244		P
Lead	ug/L	75 - 125	1140		116		1000	102		P
Magnesium	ug/L	75 - 125	72500		68300		2000	210		P
Manganese	ug/L	75 - 125	2930		2580		200	174		P
Nickel	ug/L	75 - 125	662		130		500	107		P
Potassium	ug/L	75 - 125	61300		50900		10000	104		P
Selenium	ug/L	75 - 125	1820		20.0	U	2000	91		P
Silver	ug/L	75 - 125	75.2		10.0	U	75.0	100		P
Sodium	ug/L	75 - 125	547000		525000		3000	749		P
Thallium	ug/L	75 - 125	1910		40.0	U	2000	96		P
Vanadium	ug/L	75 - 125	374		96.3		300	93		P
Zinc	ug/L	75 - 125	552		323		200	114		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Water **sample id:** Q1415-06 **client id:** B-173-GW01MSD

Percent Solids for Sample: NA **Spiked ID:** Q1415-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	45100		42100		2000	150		P
Antimony	ug/L	75 - 125	529		50.0	U	800	66	N	P
Arsenic	ug/L	75 - 125	819		16.1	J	800	100		P
Barium	ug/L	75 - 125	698		508		200	95		P
Beryllium	ug/L	75 - 125	211		3.13	J	200	104		P
Cadmium	ug/L	75 - 125	214		6.00	U	200	107		P
Calcium	ug/L	75 - 125	105000		99700		1000	537		P
Chromium	ug/L	75 - 125	565		187		400	95		P
Cobalt	ug/L	75 - 125	258		40.0		200	109		P
Copper	ug/L	75 - 125	597		290		300	103		P
Iron	ug/L	75 - 125	77900		77800		3000	3		P
Lead	ug/L	75 - 125	1140		116		1000	103		P
Magnesium	ug/L	75 - 125	73000		68300		2000	234		P
Manganese	ug/L	75 - 125	2910		2580		200	166		P
Nickel	ug/L	75 - 125	662		130		500	106		P
Potassium	ug/L	75 - 125	55300		50900		10000	44		P
Selenium	ug/L	75 - 125	1790		20.0	U	2000	90		P
Silver	ug/L	75 - 125	75.1		10.0	U	75.0	100		P
Sodium	ug/L	75 - 125	508000		525000		3000	-563		P
Thallium	ug/L	75 - 125	1930		40.0	U	2000	96		P
Vanadium	ug/L	75 - 125	372		96.3		300	92		P
Zinc	ug/L	75 - 125	532		323		200	104		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Solid **sample id:** Q1421-01 **client id:** P001-CLAY-CF01-01MS

Percent Solids for Sample: 70.3 **Spiked ID:** Q1421-02 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.52		0.030		0.4	122	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1415

contract: PORT06 **lab code:** CHEM **case no.:** Q1415 **sas no.:** Q1415

matrix: Solid **sample id:** Q1421-01 **client id:** P001-CLAY-CF01-01MSD

Percent Solids for Sample: 70.3 **Spiked ID:** Q1421-03 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.48		0.030		0.38	117		CV

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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Solid **Level:** LOW **Client ID:** BU-2-022125A

Sample ID: Q1413-01 **Spiked ID:** Q1413-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	22.9		2.26	U	36.2	63		P
Manganese	mg/Kg	75 - 125	37.1		27.6		9.10	104		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Water **Level:** LOW **Client ID:** B-173-GW01A

Sample ID: Q1415-06 **Spiked ID:** Q1415-06A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	522		50.0	U	800	65		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Solid **Level:** LOW **Client ID:** P001-CLAY-CF01-01A

Sample ID: Q1421-01 **Spiked ID:** Q1421-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.47		0.030		0.40	109		CV

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Water **Sample ID:** Q1409-01 **Client ID:** SURFACE-WATER-1DUP

Percent Solids for Sample: NA **Duplicate ID** Q1409-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Water **Sample ID:** Q1409-01MS **Client ID:** SURFACE-WATER-1MSD

Percent Solids for Sample: NA **Duplicate ID** Q1409-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.72		3.74		1		CV

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Solid **Sample ID:** Q1413-01 **Client ID:** BU-2-022125DUP

Percent Solids for Sample: 94.4 **Duplicate ID** Q1413-01DUP **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1020		1060		4		P
Antimony	mg/Kg	20	2.26	U	2.36	U			P
Arsenic	mg/Kg	20	1.26		1.32		5		P
Barium	mg/Kg	20	5.31		5.49		3		P
Beryllium	mg/Kg	20	0.21	J	0.22	J	4		P
Cadmium	mg/Kg	20	0.27	U	0.28	U			P
Calcium	mg/Kg	20	1330		1380		4		P
Chromium	mg/Kg	20	6.38		6.63		4		P
Cobalt	mg/Kg	20	0.76	J	0.79	J	4		P
Copper	mg/Kg	20	4.10		4.23		3		P
Iron	mg/Kg	20	5440		5680		4		P
Lead	mg/Kg	20	6.42		6.65		4		P
Magnesium	mg/Kg	20	645		671		4		P
Manganese	mg/Kg	20	27.6		28.6		4		P
Nickel	mg/Kg	20	1.62	J	1.71	J	5		P
Potassium	mg/Kg	20	294		304		3		P
Selenium	mg/Kg	20	0.91	U	0.95	U			P
Silver	mg/Kg	20	0.45	U	0.47	U			P
Sodium	mg/Kg	20	130		133		2		P
Thallium	mg/Kg	20	1.81	U	1.89	U			P
Vanadium	mg/Kg	20	6.24		6.49		4		P
Zinc	mg/Kg	20	8.39		8.68		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Solid **Sample ID:** Q1413-01MS **Client ID:** BU-2-022125MSD

Percent Solids for Sample: 94.4 **Duplicate ID** Q1413-01MSD **Percent Solids for Spike Sample:** 94.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	1350		1460		8		P
Antimony	mg/Kg	20	22.8		24.9		9		P
Arsenic	mg/Kg	20	33.2		36.1		8		P
Barium	mg/Kg	20	13.0		14.0		7		P
Beryllium	mg/Kg	20	8.31		9.15		10		P
Cadmium	mg/Kg	20	8.20		8.92		8		P
Calcium	mg/Kg	20	3010		3220		7		P
Chromium	mg/Kg	20	24.3		26.2		8		P
Cobalt	mg/Kg	20	9.23		9.96		8		P
Copper	mg/Kg	20	16.8		18.4		9		P
Iron	mg/Kg	20	6040		6290		4		P
Lead	mg/Kg	20	47.9		51.5		7		P
Magnesium	mg/Kg	20	714		763		7		P
Manganese	mg/Kg	20	37.8		40.2		6		P
Nickel	mg/Kg	20	22.5		24.3		8		P
Potassium	mg/Kg	20	805		862		7		P
Selenium	mg/Kg	20	71.6		78.5		9		P
Silver	mg/Kg	20	3.14		3.34		6		P
Sodium	mg/Kg	20	253		270		7		P
Thallium	mg/Kg	20	78.1		87.4		11		P
Vanadium	mg/Kg	20	18.5		19.8		7		P
Zinc	mg/Kg	20	17.8		19.5		9		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Water **Sample ID:** Q1415-06 **Client ID:** B-173-GW01DUP

Percent Solids for Sample: NA **Duplicate ID** Q1415-06DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	42100		38700		8		P
Antimony	ug/L	20	50.0	U	50.0	U			P
Arsenic	ug/L	20	16.1	J	14.8	J	8		P
Barium	ug/L	20	508		473		7		P
Beryllium	ug/L	20	3.13	J	3.12	J	0		P
Cadmium	ug/L	20	6.00	U	6.00	U			P
Calcium	ug/L	20	99700		98800		1		P
Chromium	ug/L	20	187		182		3		P
Cobalt	ug/L	20	40.0		39.1		2		P
Copper	ug/L	20	290		288		1		P
Iron	ug/L	20	77800		70800		9		P
Lead	ug/L	20	116		114		2		P
Magnesium	ug/L	20	68300		67700		1		P
Manganese	ug/L	20	2580		2560		1		P
Nickel	ug/L	20	130		128		2		P
Potassium	ug/L	20	50900		46100		10		P
Selenium	ug/L	20	20.0	U	20.0	U			P
Silver	ug/L	20	10.0	U	10.0	U			P
Sodium	ug/L	20	525000		499000		5		P
Thallium	ug/L	20	40.0	U	40.0	U			P
Vanadium	ug/L	20	96.3		91.1		6		P
Zinc	ug/L	20	323		313		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Water **Sample ID:** Q1415-06MS **Client ID:** B-173-GW01MSD

Percent Solids for Sample: NA **Duplicate ID** Q1415-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	45300		45100		0		P
Antimony	ug/L	20	533		529		1		P
Arsenic	ug/L	20	829		819		1		P
Barium	ug/L	20	721		698		3		P
Beryllium	ug/L	20	192		211		9		P
Cadmium	ug/L	20	213		214		0		P
Calcium	ug/L	20	105000		105000		0		P
Chromium	ug/L	20	575		565		2		P
Cobalt	ug/L	20	257		258		0		P
Copper	ug/L	20	598		597		0		P
Iron	ug/L	20	85200		77900		9		P
Lead	ug/L	20	1140		1140		0		P
Magnesium	ug/L	20	72500		73000		1		P
Manganese	ug/L	20	2930		2910		1		P
Nickel	ug/L	20	662		662		0		P
Potassium	ug/L	20	61300		55300		10		P
Selenium	ug/L	20	1820		1790		2		P
Silver	ug/L	20	75.2		75.1		0		P
Sodium	ug/L	20	547000		508000		7		P
Thallium	ug/L	20	1910		1930		1		P
Vanadium	ug/L	20	374		372		1		P
Zinc	ug/L	20	552		532		4		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Solid **Sample ID:** Q1421-01 **Client ID:** P001-CLAY-CF01-01DUP

Percent Solids for Sample: 70.3 **Duplicate ID** Q1421-01DUP **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.030		0.028		7		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Matrix: Solid **Sample ID:** Q1421-02 **Client ID:** P001-CLAY-CF01-01MSD

Percent Solids for Sample: 70.3 **Duplicate ID** Q1421-03 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.52		0.48		8		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166834BS							
Aluminum	mg/Kg	88.9	84.8		95	80 - 120	P
Antimony	mg/Kg	35.6	35.6		100	80 - 120	P
Arsenic	mg/Kg	35.6	36.1		101	80 - 120	P
Barium	mg/Kg	8.9	7.38		83	80 - 120	P
Beryllium	mg/Kg	8.9	8.14		92	80 - 120	P
Cadmium	mg/Kg	8.9	8.14		92	80 - 120	P
Calcium	mg/Kg	44.4	40.4	J	91	80 - 120	P
Chromium	mg/Kg	17.8	19.0		107	80 - 120	P
Cobalt	mg/Kg	8.9	8.25		93	80 - 120	P
Copper	mg/Kg	13.3	13.7		103	80 - 120	P
Iron	mg/Kg	130	124		95	80 - 120	P
Lead	mg/Kg	44.4	41.8		94	80 - 120	P
Magnesium	mg/Kg	88.9	78.8	J	89	80 - 120	P
Manganese	mg/Kg	8.9	7.65		86	80 - 120	P
Nickel	mg/Kg	22.2	20.5		92	80 - 120	P
Potassium	mg/Kg	440	400		91	80 - 120	P
Selenium	mg/Kg	88.9	86.7		98	80 - 120	P
Silver	mg/Kg	3.3	3.35		102	80 - 120	P
Sodium	mg/Kg	130	117		90	80 - 120	P
Thallium	mg/Kg	88.9	86.2		97	80 - 120	P
Vanadium	mg/Kg	13.3	12.1		91	80 - 120	P
Zinc	mg/Kg	8.9	9.02		101	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166859BS							
Aluminum	ug/L	1000	927		93	80 - 120	P
Antimony	ug/L	400	398		100	80 - 120	P
Arsenic	ug/L	400	391		98	80 - 120	P
Barium	ug/L	100	89.2		89	80 - 120	P
Beryllium	ug/L	100	103		103	80 - 120	P
Cadmium	ug/L	100	90.9		91	80 - 120	P
Calcium	ug/L	500	470	J	94	80 - 120	P
Chromium	ug/L	200	191		96	80 - 120	P
Cobalt	ug/L	100	93.5		94	80 - 120	P
Copper	ug/L	150	151		101	80 - 120	P
Iron	ug/L	1500	1460		97	80 - 120	P
Lead	ug/L	500	463		93	80 - 120	P
Magnesium	ug/L	1000	901	J	90	80 - 120	P
Manganese	ug/L	100	105		105	80 - 120	P
Nickel	ug/L	250	236		94	80 - 120	P
Potassium	ug/L	5000	4870		97	80 - 120	P
Selenium	ug/L	1000	960		96	80 - 120	P
Silver	ug/L	37.5	36.2		96	80 - 120	P
Sodium	ug/L	1500	1340		89	80 - 120	P
Thallium	ug/L	1000	951		95	80 - 120	P
Vanadium	ug/L	150	139		93	80 - 120	P
Zinc	ug/L	100	97.7		98	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166864BS							
Mercury	mg/Kg	0.26	0.24		90	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166869BS							
Mercury	ug/L	4.0	3.98		100	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

SURFACE-WATER-1L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134804 **Lab Sample ID :** Q1409-01L **SDG No.:** Q1415

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

BU-2-022125L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134813 **Lab Sample ID :** Q1413-01L **SDG No.:** Q1415

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	1020		1080		6		P
Antimony	2.26	U	11.3	U			P
Arsenic	1.26		1.46	J	16		P
Barium	5.31		4.75	J	11		P
Beryllium	0.21	J	0.24	J	14		P
Cadmium	0.27	U	1.36	U			P
Calcium	1330		1400		5		P
Chromium	6.38		6.59		3		P
Cobalt	0.76	J	0.76	J	1		P
Copper	4.10		4.15	J	1		P
Iron	5440		5710		5		P
Lead	6.42		6.64		4		P
Magnesium	645		676		5		P
Manganese	27.6		29.2		6		P
Nickel	1.62	J	1.63	J	0		P
Potassium	294		300	J	2		P
Selenium	0.91	U	4.53	U			P
Silver	0.45	U	2.26	U			P
Sodium	130		453	U	100.0		P
Thallium	1.81	U	9.05	U			P
Vanadium	6.24		6.58	J	5		P
Zinc	8.39		8.69	J	4		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

B-173-GW01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134987 **Lab Sample ID :** Q1415-06L **SDG No.:** Q1415

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	42100		41600		1		P
Antimony	50.0	U	250	U			P
Arsenic	16.1	J	100	U	100.0		P
Barium	508		507		0		P
Beryllium	3.13	J	3.33	J	6		P
Cadmium	6.00	U	30.0	U			P
Calcium	99700		111000		11		P
Chromium	187		200		7		P
Cobalt	40.0		39.5	J	1		P
Copper	290		327		13		P
Iron	77800		77700		0		P
Lead	116		113		2		P
Magnesium	68300		74500		9		P
Manganese	2580		2930		14		P
Nickel	130		129	J	0		P
Potassium	50900		46100		9		P
Selenium	20.0	U	100	U			P
Silver	10.0	U	50.0	U			P
Sodium	525000		535000		2		P
Thallium	40.0	U	200	U			P
Vanadium	96.3		101	J	5		P
Zinc	323		292		10		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

P001-CLAY-CF01-01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134807 **Lab Sample ID :** Q1421-01L **SDG No.:** Q1415

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.030		0.10	U	100.0		CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1415 **Sas no.:** Q1415 **Sdg no.:** Q1415

Instrument id number: **Method:** **Run number:** LB134804

Start date: 02/26/2025 **End date:** 02/26/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0821	HG
S0.2	S0.2	1	0823	HG
S2.5	S2.5	1	0825	HG
S5	S5	1	0827	HG
S7.5	S7.5	1	0830	HG
S10	S10	1	0832	HG
ICV17	ICV17	1	0835	HG
ICB17	ICB17	1	0840	HG
CCV18	CCV18	1	0842	HG
CCB18	CCB18	1	0844	HG
CRA	CRA	1	0852	HG
PB166869BL	PB166869BL	1	0902	HG
PB166869BS	PB166869BS	1	0904	HG
Q1409-01DUP	SURFACE-WATER-1DUP	1	0909	HG
Q1409-01MS	SURFACE-WATER-1MS	1	0911	HG
Q1409-01MSD	SURFACE-WATER-1MSD	1	0913	HG
Q1415-05	FB02222025	1	0915	HG
CCV19	CCV19	1	0918	HG
CCB19	CCB19	1	0920	HG
Q1415-06	B-173-GW01	1	0922	HG
Q1409-01L	SURFACE-WATER-1L	5	0925	HG
CCV20	CCV20	1	0933	HG
CCB20	CCB20	1	0936	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1415 **Sas no.:** Q1415 **Sdg no.:** Q1415

Instrument id number: **Method:** **Run number:** LB134807

Start date: 02/26/2025 **End date:** 02/26/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1052	HG
S0.2	S0.2	1	1054	HG
S2.5	S2.5	1	1058	HG
S5	S5	1	1100	HG
S7.5	S7.5	1	1102	HG
S10	S10	1	1107	HG
ICV19	ICV19	1	1110	HG
ICB19	ICB19	1	1115	HG
CCV25	CCV25	1	1118	HG
CCB25	CCB25	1	1120	HG
CRA	CRA	1	1122	HG
PB166864BL	PB166864BL	1	1132	HG
PB166864BS	PB166864BS	1	1134	HG
Q1415-01	B-163-SB01	1	1136	HG
Q1415-02	B-172-SB01	1	1139	HG
Q1415-03	B-163-SB02	1	1141	HG
Q1415-04	B-172-SB02	1	1143	HG
CCV26	CCV26	1	1148	HG
CCB26	CCB26	1	1153	HG
Q1421-01DUP	P001-CLAY-CF01-01DUP	1	1207	HG
Q1421-02	P001-CLAY-CF01-01MS	1	1216	HG
Q1421-03	P001-CLAY-CF01-01MSD	1	1221	HG
CCV27	CCV27	1	1230	HG
CCB27	CCB27	1	1237	HG
Q1421-01L	P001-CLAY-CF01-01L	5	1242	HG
Q1421-01A	P001-CLAY-CF01-01A	1	1244	HG
CCV28	CCV28	1	1246	HG
CCB28	CCB28	1	1249	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1415 **Sas no.:** Q1415 **Sdg no.:** Q1415

Instrument id number: **Method:** **Run number:** LB134813

Start date: 02/26/2025 **End date:** 02/26/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1107	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1111	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1116	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1120	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1124	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1128	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1132	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1137	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1141	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1145	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1150	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1154	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1159	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1204	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1413-01DUP	BU-2-022125DUP	1	1237	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1413-01L	BU-2-022125L	5	1241	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1413-01MS	BU-2-022125MS	1	1245	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1311	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1315	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1413-01MSD	BU-2-022125MSD	1	1320	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1413-01A	BU-2-022125A	1	1324	Mn,Sb
CCV03	CCV03	1	1403	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1539	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1543	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1415 **Sas no.:** Q1415 **Sdg no.:** Q1415

Instrument id number: **Method:** **Run number:** LB134952

Start date: 03/07/2025 **End date:** 03/07/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0942	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	0947	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	0951	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	0955	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1000	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1004	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1008	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1013	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1020	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1024	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1028	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1033	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1103	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-01	B-163-SB01	1	1116	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-02	B-172-SB01	1	1120	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-03	B-163-SB02	1	1124	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-04	B-172-SB02	1	1128	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166834BL	PB166834BL	1	1132	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166834BS	PB166834BS	1	1136	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1159	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1203	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1415 **Sas no.:** Q1415 **Sdg no.:** Q1415

Instrument id number: **Method:** **Run number:** LB134965

Start date: 03/10/2025 **End date:** 03/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1117	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1122	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1126	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1130	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1134	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1148	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1152	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1157	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1201	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1205	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1210	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1214	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1218	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1227	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1234	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-05	FB02222025	1	1317	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1321	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1501	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1551	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-02	B-172-SB01	2	1604	Mn
CCV06	CCV06	1	1648	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166859BL	PB166859BL	1	1734	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1739	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1744	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166859BS	PB166859BS	1	1748	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1829	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1833	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	1846	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	1850	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1415 **Sas no.:** Q1415 **Sdg no.:** Q1415

Instrument id number: **Method:** **Run number:** LB134987

Start date: 03/11/2025 **End date:** 03/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1019	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1024	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1028	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1032	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1036	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1050	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1054	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1058	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1102	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1106	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1111	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA	ICSA	20	1115	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB	ICSAB	20	1119	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1134	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1219	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1223	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1310	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1314	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1408	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1413	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-06	B-173-GW01	1	1443	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-06DUP	B-173-GW01DUP	1	1447	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-06L	B-173-GW01L	5	1452	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-06MS	B-173-GW01MS	1	1456	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1500	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1504	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-06MSD	B-173-GW01MSD	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1415-06A	B-173-GW01A	1	1513	Sb
CCV06	CCV06	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1554	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals

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LINEAR RANGES

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1415 **SAS No.:** Q1415

Instrument ID: P4 **Date:** 01/04/2018

Analyte	Integration Time (sec)	LDR ug/L
Aluminum	10	1980000
Antimony	10	90000
Arsenic	10	81000
Barium	10	90000
Beryllium	10	9000
Cadmium	10	9000
Calcium	10	2520000
Chromium	10	90000
Cobalt	10	81000
Copper	10	333000
Iron	10	900000
Lead	10	225000
Magnesium	10	3600000
Manganese	10	58500
Nickel	10	90000
Potassium	10	1800000
Selenium	10	90000
Silver	10	9000
Sodium	10	2520000
Thallium	10	90000
Vanadium	10	90000
Zinc	10	45000

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LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/24/25	03/07/25	
Q1415-02	**B-172-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/24/25	03/07/25	
			Metals ICP-TAL	6010D		02/24/25	03/10/25	
Q1415-03	**B-163-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/24/25	03/07/25	
Q1415-04	**B-172-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/24/25	03/07/25	
Q1415-05	**FB02222025**	**Water**			**02/22/25**			**02/24/25**
			Mercury	7470A		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/25/25	03/10/25	
Q1415-06	**B-173-GW01**	**Water**			**02/22/25**			**02/24/25**
			Mercury	7470A		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/25/25	03/11/25	

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1415 **SAS No.:** Q1415

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166834**						
PB166834BL	PB166834BL	MB	SOLID	02/24/2025	2.37	100.0	100.00
PB166834BS	PB166834BS	LCS	SOLID	02/24/2025	2.25	100.0	100.00
Q1413-01DUP	BU-2-022125DUP	DUP	SOLID	02/24/2025	2.24	100.0	94.40
Q1413-01MS	BU-2-022125MS	MS	SOLID	02/24/2025	2.31	100.0	94.40
Q1413-01MSD	BU-2-022125MSD	MSD	SOLID	02/24/2025	2.13	100.0	94.40
Q1415-01	B-163-SB01	SAM	SOLID	02/24/2025	2.11	100.0	88.50
Q1415-02	B-172-SB01	SAM	SOLID	02/24/2025	2.38	100.0	86.60
Q1415-03	B-163-SB02	SAM	SOLID	02/24/2025	2.28	100.0	72.40
Q1415-04	B-172-SB02	SAM	SOLID	02/24/2025	2.25	100.0	89.70

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1415 **SAS No.:** Q1415

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166859**						
PB166859BL	PB166859BL	MB	WATER	02/25/2025	50.0	25.0	
PB166859BS	PB166859BS	LCS	WATER	02/25/2025	50.0	25.0	
Q1415-05	FB02222025	SAM	WATER	02/25/2025	50.0	25.0	
Q1415-06	B-173-GW01	SAM	WATER	02/25/2025	50.0	50.0	
Q1415-06DUP	B-173-GW01DUP	DUP	WATER	02/25/2025	50.0	50.0	
Q1415-06MS	B-173-GW01MS	MS	WATER	02/25/2025	50.0	50.0	
Q1415-06MSD	B-173-GW01MSD	MSD	WATER	02/25/2025	50.0	50.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1415 **SAS No.:** Q1415

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166864**						
PB166864BL	PB166864BL	MB	SOLID	02/25/2025	0.56	35.0	100.00
PB166864BS	PB166864BS	LCS	SOLID	02/25/2025	0.54	35.0	100.00
Q1415-01	B-163-SB01	SAM	SOLID	02/25/2025	0.50	35.0	88.50
Q1415-02	B-172-SB01	SAM	SOLID	02/25/2025	0.51	35.0	86.60
Q1415-03	B-163-SB02	SAM	SOLID	02/25/2025	0.52	35.0	72.40
Q1415-04	B-172-SB02	SAM	SOLID	02/25/2025	0.51	35.0	89.70
Q1421-01DUP	P001-CLAY-CF01-01DUP	DUP	SOLID	02/25/2025	0.51	35.0	70.30
Q1421-02	P001-CLAY-CF01-01MS	MS	SOLID	02/25/2025	0.50	35.0	70.30
Q1421-03	P001-CLAY-CF01-01MSD	MSD	SOLID	02/25/2025	0.52	35.0	70.30

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1415 **SAS No.:** Q1415

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166869**						
PB166869BL	PB166869BL	MB	WATER	02/25/2025	30.0	30.0	
PB166869BS	PB166869BS	LCS	WATER	02/25/2025	30.0	30.0	
Q1409-01DUP	SURFACE-WATER-1DUP	DUP	WATER	02/25/2025	30.0	30.0	
Q1409-01MS	SURFACE-WATER-1MS	MS	WATER	02/25/2025	30.0	30.0	
Q1409-01MSD	SURFACE-WATER-1MSD	MSD	WATER	02/25/2025	30.0	30.0	
Q1415-05	FB02222025	SAM	WATER	02/25/2025	30.0	30.0	
Q1415-06	B-173-GW01	SAM	WATER	02/25/2025	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134804

Review By	Mohan	Review On	3/4/2025 8:30:18 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/26/25 08:21		Mohan	OK
2	S0.2	S0.2	CAL2	02/26/25 08:23		Mohan	OK
3	S2.5	S2.5	CAL3	02/26/25 08:25		Mohan	OK
4	S5	S5	CAL4	02/26/25 08:27		Mohan	OK
5	S7.5	S7.5	CAL5	02/26/25 08:30		Mohan	OK
6	S10	S10	CAL6	02/26/25 08:32		Mohan	OK
7	ICV17	ICV17	ICV	02/26/25 08:35		Mohan	OK
8	ICB17	ICB17	ICB	02/26/25 08:40		Mohan	OK
9	CCV18	CCV18	CCV	02/26/25 08:42		Mohan	OK
10	CCB18	CCB18	CCB	02/26/25 08:44		Mohan	OK
11	CRA	CRA	CRDL	02/26/25 08:52		Mohan	OK
12	HighStd	HighStd	HIGH STD	02/26/25 08:54		Mohan	OK
13	ChkStd	ChkStd	SAM	02/26/25 08:57		Mohan	OK
14	PB166869BL	PB166869BL	MB	02/26/25 09:02		Mohan	OK
15	PB166869BS	PB166869BS	LCS	02/26/25 09:04		Mohan	OK
16	Q1409-01	SURFACE-WATER-1	SAM	02/26/25 09:06		Mohan	OK
17	Q1409-01DUP	SURFACE-WATER-1[illegible]	DUP	02/26/25 09:09		Mohan	OK
18	Q1409-01MS	SURFACE-WATER-1[illegible]	MS	02/26/25 09:11		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134804

Review By	Mohan	Review On	3/4/2025 8:30:18 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:35 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

19	Q1409-01MSD	SURFACE-WATER-1M	MSD	02/26/25 09:13		Mohan	OK
20	Q1415-05	FB02222025	SAM	02/26/25 09:15		Mohan	OK
21	CCV19	CCV19	CCV	02/26/25 09:18		Mohan	OK
22	CCB19	CCB19	CCB	02/26/25 09:20		Mohan	OK
23	Q1415-06	B-173-GW01	SAM	02/26/25 09:22		Mohan	OK
24	Q1409-01L	SURFACE-WATER-1L	SD	02/26/25 09:25		Mohan	OK
25	Q1409-01A	SURFACE-WATER-1A	PS	02/26/25 09:31		Mohan	OK
26	CCV20	CCV20	CCV	02/26/25 09:33		Mohan	OK
27	CCB20	CCB20	CCB	02/26/25 09:36		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/26/25 10:52		Mohan	OK
2	S0.2	S0.2	CAL2	02/26/25 10:54		Mohan	OK
3	S2.5	S2.5	CAL3	02/26/25 10:58		Mohan	OK
4	S5	S5	CAL4	02/26/25 11:00		Mohan	OK
5	S7.5	S7.5	CAL5	02/26/25 11:02		Mohan	OK
6	S10	S10	CAL6	02/26/25 11:07		Mohan	OK
7	ICV19	ICV19	ICV	02/26/25 11:10		Mohan	OK
8	ICB19	ICB19	ICB	02/26/25 11:15		Mohan	OK
9	CCV25	CCV25	CCV	02/26/25 11:18		Mohan	OK
10	CCB25	CCB25	CCB	02/26/25 11:20		Mohan	OK
11	CRA	CRA	CRDL	02/26/25 11:22		Mohan	OK
12	HighStd	HighStd	HIGH STD	02/26/25 11:24		Mohan	OK
13	ChkStd	ChkStd	SAM	02/26/25 11:27		Mohan	OK
14	PB166864BL	PB166864BL	MB	02/26/25 11:32		Mohan	OK
15	PB166864BS	PB166864BS	LCS	02/26/25 11:34		Mohan	OK
16	Q1415-01	B-163-SB01	SAM	02/26/25 11:36		Mohan	OK
17	Q1415-02	B-172-SB01	SAM	02/26/25 11:39		Mohan	OK
18	Q1415-03	B-163-SB02	SAM	02/26/25 11:41		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

19	Q1415-04	B-172-SB02	SAM	02/26/25 11:43		Mohan	OK
20	Q1416-01	OK-01-022425	SAM	02/26/25 11:46		Mohan	OK
21	CCV26	CCV26	CCV	02/26/25 11:48		Mohan	OK
22	CCB26	CCB26	CCB	02/26/25 11:53		Mohan	OK
23	Q1418-01	TR-06-02242025	SAM	02/26/25 11:55		Mohan	OK
24	Q1420-01	TP-1-WC	SAM	02/26/25 11:57		Mohan	OK
25	Q1420-05	TP-2-WC	SAM	02/26/25 12:00		Mohan	OK
26	Q1421-01	P001-CLAY-CF01-01	SAM	02/26/25 12:02		Mohan	OK
27	Q1421-01DUP	P001-CLAY-CF01-01D	DUP	02/26/25 12:07		Mohan	OK
28	Q1421-02	P001-CLAY-CF01-01M	MS	02/26/25 12:16		Mohan	OK
29	Q1421-03	P001-CLAY-CF01-01M	MSD	02/26/25 12:21		Mohan	OK
30	Q1421-07	P001-CLAY-CF01-02	SAM	02/26/25 12:23		Mohan	OK
31	Q1421-09	P001-CLAY-CF02-01	SAM	02/26/25 12:26		Mohan	OK
32	Q1422-01	B-154-SB01	SAM	02/26/25 12:28		Mohan	OK
33	CCV27	CCV27	CCV	02/26/25 12:30		Mohan	OK
34	CCB27	CCB27	CCB	02/26/25 12:37		Mohan	OK
35	Q1422-02	B-154-SB02	SAM	02/26/25 12:40		Mohan	OK
36	Q1421-01L	P001-CLAY-CF01-01L	SD	02/26/25 12:42		Mohan	OK
37	Q1421-01A	P001-CLAY-CF01-01A	PS	02/26/25 12:44		Mohan	OK
38	CCV28	CCV28	CCV	02/26/25 12:46		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

39	CCB28	CCB28	CCB	02/26/25 12:49		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134813

Review By	kareem	Review On	2/27/2025 6:15:01 PM
Supervise By	JANVI	Supervise On	3/5/2025 12:24:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84645
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/26/25 11:07		Kareem	OK
2	S1	S1	CAL2	02/26/25 11:11		Kareem	OK
3	S2	S2	CAL3	02/26/25 11:16		Kareem	OK
4	S3	S3	CAL4	02/26/25 11:20		Kareem	OK
5	S4	S4	CAL5	02/26/25 11:24		Kareem	OK
6	S5	S5	CAL6	02/26/25 11:28		Kareem	OK
7	ICV01	ICV01	ICV	02/26/25 11:32		Kareem	OK
8	LLICV01	LLICV01	LLICV	02/26/25 11:37		Kareem	OK
9	ICB01	ICB01	ICB	02/26/25 11:41		Kareem	OK
10	CRI01	CRI01	CRDL	02/26/25 11:45		Kareem	OK
11	ICSA01	ICSA01	ICSA	02/26/25 11:50		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	02/26/25 11:54		Kareem	OK
13	CCV01	CCV01	CCV	02/26/25 11:59		Kareem	OK
14	CCB01	CCB01	CCB	02/26/25 12:04		Kareem	OK
15	Q1409-01	SURFACE-WATER-1	SAM	02/26/25 12:08		Kareem	OK
16	Q1409-01DUP	SURFACE-WATER-1[illegible]	DUP	02/26/25 12:12		Kareem	OK
17	Q1409-01L	SURFACE-WATER-1[illegible]	SD	02/26/25 12:17		Kareem	OK
18	Q1409-01MS	SURFACE-WATER-1[illegible]	MS	02/26/25 12:21	0.1 ML M6010 AND M6001 WERE ADDED TO 10ML SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134813

Review By	kareem	Review On	2/27/2025 6:15:01 PM
Supervise By	JANVI	Supervise On	3/5/2025 12:24:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84645
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1409-01MSD	SURFACE-WATER-1M	MSD	02/26/25 12:25	0.1 ML M6010 AND M6001 WERE ADDED TO 10ML SAMPLE	Kareem	OK
20	Q1409-01A	SURFACE-WATER-1A	PS	02/26/25 12:29	0.1 ML M6010 AND M6001 WERE ADDED TO 10ML SAMPLE	Kareem	OK
21	Q1413-01	BU-2-022125	SAM	02/26/25 12:33		Kareem	OK
22	Q1413-01DUP	BU-2-022125DUP	DUP	02/26/25 12:37		Kareem	OK
23	Q1413-01L	BU-2-022125L	SD	02/26/25 12:41		Kareem	OK
24	Q1413-01MS	BU-2-022125MS	MS	02/26/25 12:45	0.1 ML M6010 AND M6001 WERE ADDED TO 10ML SAMPLE	Kareem	OK
25	CCV02	CCV02	CCV	02/26/25 13:11		Kareem	OK
26	CCB02	CCB02	CCB	02/26/25 13:15		Kareem	OK
27	Q1413-01MSD	BU-2-022125MSD	MSD	02/26/25 13:20	0.1 ML M6010 AND M6001 WERE ADDED TO 10ML SAMPLE	Kareem	OK
28	Q1413-01A	BU-2-022125A	PS	02/26/25 13:24	0.1 ML M6010 AND M6001 WERE ADDED TO 10ML SAMPLE	Kareem	OK
29	Q1418-01	TR-06-02242025	SAM	02/26/25 13:28		Kareem	OK
30	PB166835BL	PB166835BL	MB	02/26/25 13:32		Kareem	OK
31	PB166835BS	PB166835BS	LCS	02/26/25 13:36	0.1 ML M6010 AND M6001 WERE ADDED TO 10ML SAMPLE	Kareem	OK
32	PB166834BL	PB166834BL	MB	02/26/25 13:40	Not Use	Kareem	Not Ok
33	PB166834BS	PB166834BS	LCS	02/26/25 13:45	Not Use	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134813

Review By	kareem	Review On	2/27/2025 6:15:01 PM
Supervise By	JANVI	Supervise On	3/5/2025 12:24:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84645
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

34	PB166858BL	PB166858BL	MB	02/26/25 13:49	NOT USE	Kareem	Not Ok
35	PB166858BS	PB166858BS	LCS	02/26/25 13:53	NOT USE	Kareem	Not Ok
36	CCV03	CCV03	CCV	02/26/25 14:03		Kareem	OK
37	CCB03	CCB03	CCB	02/26/25 14:09		Kareem	OK
38	LR1	LR1	HIGH STD	02/26/25 15:30		Kareem	OK
39	LR2	LR2	HIGH STD	02/26/25 15:35		Kareem	OK
40	CCV04	CCV04	CCV	02/26/25 15:39		Kareem	OK
41	CCB04	CCB04	CCB	02/26/25 15:43		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134952

Review By	kareem	Review On	3/10/2025 2:20:36 PM
Supervise By	jaswal	Supervise On	3/11/2025 8:57:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/07/25 09:42		Kareem	OK
2	S1	S1	CAL2	03/07/25 09:47		Kareem	OK
3	S2	S2	CAL3	03/07/25 09:51		Kareem	OK
4	S3	S3	CAL4	03/07/25 09:55		Kareem	OK
5	S4	S4	CAL5	03/07/25 10:00		Kareem	OK
6	S5	S5	CAL6	03/07/25 10:04		Kareem	OK
7	ICV01	ICV01	ICV	03/07/25 10:08		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/07/25 10:13		Kareem	OK
9	ICB01	ICB01	ICB	03/07/25 10:20		Kareem	OK
10	CRI01	CRI01	CRDL	03/07/25 10:24		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/07/25 10:28		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/07/25 10:33		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/07/25 10:37		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/07/25 10:41		Kareem	OK
15	CCV01	CCV01	CCV	03/07/25 10:57		Kareem	OK
16	CCB01	CCB01	CCB	03/07/25 11:03		Kareem	OK
17	Q1415-01	B-163-SB01	SAM	03/07/25 11:16		Kareem	OK
18	Q1415-02	B-172-SB01	SAM	03/07/25 11:20	Mn high	Kareem	Dilution

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134952

Review By	kareem	Review On	3/10/2025 2:20:36 PM
Supervise By	jaswal	Supervise On	3/11/2025 8:57:20 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1415-03	B-163-SB02	SAM	03/07/25 11:24		Kareem	OK
20	Q1415-04	B-172-SB02	SAM	03/07/25 11:28		Kareem	OK
21	PB166834BL	PB166834BL	MB	03/07/25 11:32		Kareem	OK
22	PB166834BS	PB166834BS	LCS	03/07/25 11:36	0.1 ML M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
23	Q1481-02	WC-K1311	SAM	03/07/25 11:40		Kareem	OK
24	Q1489-04	TP-1	SAM	03/07/25 11:45	Need to confirm TCLP for Ba,Zn	Kareem	OK
25	Q1489-08	TP-2	SAM	03/07/25 11:49		Kareem	OK
26	LR1	LR1	HIGH STD	03/07/25 11:54		Kareem	OK
27	CCV02	CCV02	CCV	03/07/25 11:59		Kareem	OK
28	CCB02	CCB02	CCB	03/07/25 12:03		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/10/25 11:17		Kareem	OK
2	S1	S1	CAL2	03/10/25 11:22		Kareem	OK
3	S2	S2	CAL3	03/10/25 11:26		Kareem	OK
4	S3	S3	CAL4	03/10/25 11:30		Kareem	OK
5	S4	S4	CAL5	03/10/25 11:34		Kareem	OK
6	S5	S5	CAL6	03/10/25 11:38		Kareem	OK
7	ICV01	ICV01	ICV	03/10/25 11:48		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/10/25 11:52		Kareem	OK
9	ICB01	ICB01	ICB	03/10/25 11:57		Kareem	OK
10	CRI01	CRI01	CRDL	03/10/25 12:01		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/10/25 12:05		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/10/25 12:10		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/10/25 12:14		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/10/25 12:18		Kareem	OK
15	CCV01	CCV01	CCV	03/10/25 12:27		Kareem	OK
16	CCB01	CCB01	CCB	03/10/25 12:34		Kareem	OK
17	Q1489-16MSD	TP-4MSD	MSD	03/10/25 12:38		Kareem	OK
18	Q1489-16A	TP-4A	PS	03/10/25 12:42		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1478-13	IDW-SO-COMP-0228	SAM	03/10/25 12:46		Kareem	OK
20	Q1481-01	WC-K1311	SAM	03/10/25 12:51		Kareem	OK
21	Q1489-12	TP-3	SAM	03/10/25 12:55		Kareem	OK
22	Q1489-16	TP-4	SAM	03/10/25 12:59		Kareem	OK
23	Q1489-16DUP	TP-4DUP	DUP	03/10/25 13:04		Kareem	OK
24	Q1489-16L	TP-4L	SD	03/10/25 13:08		Kareem	OK
25	Q1489-16MS	TP-4MS	MS	03/10/25 13:12		Kareem	OK
26	Q1415-05	FB02222025	SAM	03/10/25 13:17		Kareem	OK
27	CCV02	CCV02	CCV	03/10/25 13:21		Kareem	OK
28	CCB02	CCB02	CCB	03/10/25 13:25		Kareem	OK
29	Q1415-05DUP	FB02222025DUP	DUP	03/10/25 13:29	NOT USE	Kareem	Not Ok
30	Q1415-05L	FB02222025L	SD	03/10/25 13:34	NOT USE	Kareem	Not Ok
31	Q1415-05MS	FB02222025MS	MS	03/10/25 13:38	NOT USE	Kareem	Not Ok
32	Q1415-05MSD	FB02222025MSD	MSD	03/10/25 13:42	NOT USE	Kareem	Not Ok
33	Q1415-05A	FB02222025A	PS	03/10/25 13:46	NOT USE	Kareem	Not Ok
34	Q1415-06	B-173-GW01	SAM	03/10/25 13:50	NOT USE	Kareem	Not Ok
35	Q1421-04	P001-CLAY-CF01-01	SAM	03/10/25 13:55	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
36	Q1421-04DUP	P001-CLAY-CF01-01D	DUP	03/10/25 13:59	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
37	Q1421-04L	P001-CLAY-CF01-01L	SD	03/10/25 14:03	MS/MSD fail for more than 50% parameters	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

38	Q1421-05	P001-CLAY-CF01-01M	MS	03/10/25 14:07	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
39	CCV03	CCV03	CCV	03/10/25 14:11		Kareem	OK
40	CCB03	CCB03	CCB	03/10/25 14:15		Kareem	OK
41	Q1421-06	P001-CLAY-CF01-01M	MSD	03/10/25 14:20	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
42	Q1421-04A	P001-CLAY-CF01-01A	PS	03/10/25 14:24	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
43	Q1421-08	P001-CLAY-CF01-02	SAM	03/10/25 14:28		Kareem	OK
44	Q1421-10	P001-CLAY-CF02-01	SAM	03/10/25 14:32		Kareem	OK
45	Q1421-01	P001-CLAY-CF01-01	SAM	03/10/25 14:36	Fe high	Kareem	Dilution
46	Q1421-01DUP	P001-CLAY-CF01-01D	DUP	03/10/25 14:41	Fe high	Kareem	Dilution
47	Q1421-01L	P001-CLAY-CF01-01L	SD	03/10/25 14:45		Kareem	OK
48	Q1421-02	P001-CLAY-CF01-01M	MS	03/10/25 14:49	Fe high	Kareem	Dilution
49	Q1421-03	P001-CLAY-CF01-01M	MSD	03/10/25 14:53	Fe high	Kareem	Dilution
50	Q1421-01A	P001-CLAY-CF01-01A	PS	03/10/25 14:57		Kareem	OK
51	CCV04	CCV04	CCV	03/10/25 15:01		Kareem	OK
52	CCB04	CCB04	CCB	03/10/25 15:05		Kareem	OK
53	Q1421-07	P001-CLAY-CF01-02	SAM	03/10/25 15:10	Fe high, Ag (oversaturated)	Kareem	Dilution
54	Q1421-09	P001-CLAY-CF02-01	SAM	03/10/25 15:14		Kareem	OK
55	Q1422-01	B-154-SB01	SAM	03/10/25 15:18		Kareem	OK
56	Q1422-02	B-154-SB02	SAM	03/10/25 15:22		Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

57	Q1429-01	OUTFALL-DSN-001	SAM	03/10/25 15:26		Kareem	OK
58	Q1429-01DUP	OUTFALL-DSN-001D	DUP	03/10/25 15:31		Kareem	OK
59	Q1429-01L	OUTFALL-DSN-001L	SD	03/10/25 15:35		Kareem	OK
60	Q1429-01MS	OUTFALL-DSN-001M	MS	03/10/25 15:39		Kareem	OK
61	Q1429-01MSD	OUTFALL-DSN-001M	MSD	03/10/25 15:43		Kareem	OK
62	Q1429-01A	OUTFALL-DSN-001A	PS	03/10/25 15:47		Kareem	OK
63	CCV05	CCV05	CCV	03/10/25 15:51		Kareem	OK
64	CCB05	CCB05	CCB	03/10/25 15:55		Kareem	OK
65	Q1429-02	OUTFALL-DSN-002	SAM	03/10/25 16:00		Kareem	OK
66	Q1415-02DL	B-172-SB01DL	SAM	03/10/25 16:04	2x for Mn	Kareem	Confirms
67	PB166968TB	PB166968TB	MB	03/10/25 16:08		Kareem	OK
68	PB166990BL	PB166990BL	MB	03/10/25 16:12		Kareem	OK
69	PB166990BS	PB166990BS	LCS	03/10/25 16:17		Kareem	OK
70	PB166878TB	PB166878TB	MB	03/10/25 16:21		Kareem	OK
71	PB166878BL	PB166878BL	MB	03/10/25 16:25		Kareem	OK
72	PB166878BS	PB166878BS	LCS	03/10/25 16:29		Kareem	OK
73	PB166858BL	PB166858BL	MB	03/10/25 16:33		Kareem	OK
74	PB166858BS	PB166858BS	LCS	03/10/25 16:44		Kareem	OK
75	CCV06	CCV06	CCV	03/10/25 16:48		Kareem	OK
76	CCB06	CCB06	CCB	03/10/25 16:52		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

77	Q1421-01DL	P001-CLAY-CF01-01D	SAM	03/10/25 16:56	2x for Fe	Kareem	Confirms
78	Q1421-01DUPDL	P001-CLAY-CF01-01D	DUP	03/10/25 17:00	2x for Fe	Kareem	Confirms
79	Q1421-01LDL	P001-CLAY-CF01-01L	SD	03/10/25 17:05	NOT REQUIRED	Kareem	Not Ok
80	Q1421-02DL	P001-CLAY-CF01-01M	MS	03/10/25 17:09	2x for Fe	Kareem	Confirms
81	Q1421-03DL	P001-CLAY-CF01-01M	MSD	03/10/25 17:13	2x for Fe	Kareem	Confirms
82	Q1421-01ADL	P001-CLAY-CF01-01A	PS	03/10/25 17:17	NOT REQUIRED	Kareem	Not Ok
83	Q1421-07DL	P001-CLAY-CF01-02D	SAM	03/10/25 17:21	2x for Fe,Ag	Kareem	Confirms
84	Q1421-09DL	P001-CLAY-CF02-01D	SAM	03/10/25 17:26	NOT USE	Kareem	Not Ok
85	PB166927TB	PB166927TB	MB	03/10/25 17:30		Kareem	OK
86	PB166859BL	PB166859BL	MB	03/10/25 17:34		Kareem	OK
87	CCV07	CCV07	CCV	03/10/25 17:39		Kareem	OK
88	CCB07	CCB07	CCB	03/10/25 17:44		Kareem	OK
89	PB166859BS	PB166859BS	LCS	03/10/25 17:48		Kareem	OK
90	Q1524-01	72-11930-343-COMP	SAM	03/10/25 17:52		Kareem	OK
91	Q1524-01DUP	72-11930-343-COMPD	DUP	03/10/25 17:56		Kareem	OK
92	Q1524-01L	72-11930-343-COMPL	SD	03/10/25 18:00		Kareem	OK
93	Q1524-01MS	72-11930-343-COMPM	MS	03/10/25 18:04		Kareem	OK
94	Q1524-01MSD	72-11930-343-COMPM	MSD	03/10/25 18:08		Kareem	OK
95	Q1524-01A	72-11930-343-COMPA	PS	03/10/25 18:12		Kareem	OK
96	Q1524-02	VNJ-241	SAM	03/10/25 18:16		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

97	PB167039BL	PB167039BL	MB	03/10/25 18:20		Kareem	OK
98	PB167039BS	PB167039BS	LCS	03/10/25 18:25		Kareem	OK
99	CCV08	CCV08	CCV	03/10/25 18:29		Kareem	OK
100	CCB08	CCB08	CCB	03/10/25 18:33		Kareem	OK
101	LR1	LR1	HIGH STD	03/10/25 18:37		Kareem	OK
102	LR2	LR2	HIGH STD	03/10/25 18:42		Kareem	OK
103	CCV09	CCV09	CCV	03/10/25 18:46		Kareem	OK
104	CCB09	CCB09	CCB	03/10/25 18:50		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

Review By	kareem	Review On	3/11/2025 3:30:40 PM
Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/11/25 10:19		Kareem	OK
2	S1	S1	CAL2	03/11/25 10:24		Kareem	OK
3	S2	S2	CAL3	03/11/25 10:28		Kareem	OK
4	S3	S3	CAL4	03/11/25 10:32		Kareem	OK
5	S4	S4	CAL5	03/11/25 10:36		Kareem	OK
6	S5	S5	CAL6	03/11/25 10:41		Kareem	OK
7	ICV01	ICV01	ICV	03/11/25 10:50		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/11/25 10:54		Kareem	OK
9	ICB01	ICB01	ICB	03/11/25 10:58		Kareem	OK
10	CRI01	CRI01	CRDL	03/11/25 11:02		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/11/25 11:06		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/11/25 11:11		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/11/25 11:15		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/11/25 11:19		Kareem	OK
15	CCV01	CCV01	CCV	03/11/25 11:29		Kareem	OK
16	CCB01	CCB01	CCB	03/11/25 11:34		Kareem	OK
17	Q1421-04	P001-CLAY-CF01-01	SAM	03/11/25 11:38		Kareem	OK
18	Q1421-04DUP	P001-CLAY-CF01-01D	DUP	03/11/25 11:42		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

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Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1421-04L	P001-CLAY-CF01-01L	SD	03/11/25 11:46		Kareem	OK
20	Q1421-05	P001-CLAY-CF01-01M	MS	03/11/25 11:51		Kareem	OK
21	Q1421-06	P001-CLAY-CF01-01M	MSD	03/11/25 11:55		Kareem	OK
22	Q1421-04A	P001-CLAY-CF01-01A	PS	03/11/25 11:59		Kareem	OK
23	Q1490-01	MS	SAM	03/11/25 12:02		Kareem	OK
24	Q1490-02	MS	SAM	03/11/25 12:07		Kareem	OK
25	Q1494-03	ASPHALT-SOIL	SAM	03/11/25 12:11		Kareem	OK
26	Q1494-05	SOIL	SAM	03/11/25 12:15		Kareem	OK
27	CCV02	CCV02	CCV	03/11/25 12:19		Kareem	OK
28	CCB02	CCB02	CCB	03/11/25 12:23		Kareem	OK
29	Q1494-07	SOIL-COMP	SAM	03/11/25 12:28		Kareem	OK
30	Q1494-07DUP	SOIL-COMPDUP	DUP	03/11/25 12:32		Kareem	OK
31	Q1494-07L	SOIL-COMPL	SD	03/11/25 12:36		Kareem	OK
32	Q1494-07MS	SOIL-COMPMS	MS	03/11/25 12:40		Kareem	OK
33	Q1494-07MSD	SOIL-COMPMSD	MSD	03/11/25 12:44		Kareem	OK
34	Q1494-07A	SOIL-COMPA	PS	03/11/25 12:48		Kareem	OK
35	Q1494-04	ASPHALT-SOIL	SAM	03/11/25 12:52		Kareem	OK
36	Q1494-06	SOIL	SAM	03/11/25 12:57		Kareem	OK
37	Q1494-08	SOIL-COMP	SAM	03/11/25 13:01		Kareem	OK
38	PB167004BL	PB167004BL	MB	03/11/25 13:05		Kareem	OK

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Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

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ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

39	CCV03	CCV03	CCV	03/11/25 13:10		Kareem	OK
40	CCB03	CCB03	CCB	03/11/25 13:14		Kareem	OK
41	PB167004BS	PB167004BS	LCS	03/11/25 13:18		Kareem	OK
42	Q1494-01	PURGE-WATER	SAM	03/11/25 13:22		Kareem	OK
43	Q1494-01DUP	PURGE-WATERDUP	DUP	03/11/25 13:26		Kareem	OK
44	Q1494-01L	PURGE-WATERL	SD	03/11/25 13:31		Kareem	OK
45	Q1494-01MS	PURGE-WATERMS	MS	03/11/25 13:35		Kareem	OK
46	Q1494-01MSD	PURGE-WATERMSD	MSD	03/11/25 13:39		Kareem	OK
47	Q1494-01A	PURGE-WATERA	PS	03/11/25 13:43		Kareem	OK
48	PB167002BL	PB167002BL	MB	03/11/25 13:55		Kareem	OK
49	PB167002BS	PB167002BS	LCS	03/11/25 14:00		Kareem	OK
50	Q1499-01	402	SAM	03/11/25 14:04		Kareem	OK
51	CCV04	CCV04	CCV	03/11/25 14:08		Kareem	OK
52	CCB04	CCB04	CCB	03/11/25 14:13		Kareem	OK
53	Q1499-01DUP	402DUP	DUP	03/11/25 14:17		Kareem	OK
54	Q1499-01L	402L	SD	03/11/25 14:21		Kareem	OK
55	Q1499-01MS	402MS	MS	03/11/25 14:26		Kareem	OK
56	Q1499-01MSD	402MSD	MSD	03/11/25 14:30		Kareem	OK
57	Q1499-01A	402A	PS	03/11/25 14:34		Kareem	OK
58	Q1488-02	ENV-101-SB01	SAM	03/11/25 14:38		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134987

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Supervise By	jaswal	Supervise On	3/11/2025 3:32:56 PM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84846
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84846
LCS Standard	
Chk Standard	MP84649,MP84650

59	Q1415-06	B-173-GW01	SAM	03/11/25 14:43		Kareem	OK
60	Q1415-06DUP	B-173-GW01DUP	DUP	03/11/25 14:47		Kareem	OK
61	Q1415-06L	B-173-GW01L	SD	03/11/25 14:52		Kareem	OK
62	Q1415-06MS	B-173-GW01MS	MS	03/11/25 14:56		Kareem	OK
63	CCV05	CCV05	CCV	03/11/25 15:00		Kareem	OK
64	CCB05	CCB05	CCB	03/11/25 15:04		Kareem	OK
65	Q1415-06MSD	B-173-GW01MSD	MSD	03/11/25 15:09		Kareem	OK
66	Q1415-06A	B-173-GW01A	PS	03/11/25 15:13		Kareem	OK
67	Q1534-01	OR-363-COMP-16	SAM	03/11/25 15:17		Kareem	OK
68	Q1534-07	OR-363-COMP-17	SAM	03/11/25 15:21		Kareem	OK
69	Q1534-13	OR-363-COMP-18	SAM	03/11/25 15:25		Kareem	OK
70	Q1534-19	OR-363-COMP-19	SAM	03/11/25 15:29		Kareem	OK
71	Q1535-01	SU-03-03102025	SAM	03/11/25 15:33		Kareem	OK
72	Q1535-01DUP	SU-03-03102025DUP	DUP	03/11/25 15:37		Kareem	OK
73	Q1535-01L	SU-03-03102025L	SD	03/11/25 15:41		Kareem	OK
74	Q1535-01MS	SU-03-03102025MS	MS	03/11/25 15:46		Kareem	OK
75	CCV06	CCV06	CCV	03/11/25 15:50		Kareem	OK
76	CCB06	CCB06	CCB	03/11/25 15:54		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166834

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #5 2. N/A

Start Digest Date: 02/24/2025 **Time :** 12:05 **Temp :** 96 °C

End Digest Date: 02/24/2025 **Time :** 14:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: SLG.

Supervisor Signature: MB

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6002
LFS-2	1.00	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP84041
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 5 CELL 35 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/24/25 15:10	SLG.met.dig	MB metal lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166834

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166834BL	PBS834	N/A	2.37	100	Colorless	Colorless	Fine	N/A	N/A	1
PB166834BS	LCS834	N/A	2.25	100	Colorless	Colorless	Fine	N/A	M6002,M6011	2
Q1413-01MS	BU-2-022125MS	N/A	2.31	100	Brown	Yellow	Medium	N/A	M6002,M6011	5
Q1413-01MSD	BU-2-022125MSD	N/A	2.13	100	Brown	Yellow	Medium	N/A	M6002,M6011	6
Q1413-01DUP	BU-2-022125DUP	N/A	2.24	100	Brown	Yellow	Medium	N/A	N/A	4
Q1413-01	BU-2-022125	N/A	2.34	100	Brown	Yellow	Medium	N/A	N/A	3
Q1415-01	B-163-SB01	N/A	2.11	100	Brown	Yellow	Medium	N/A	N/A	7
Q1415-02	B-172-SB01	N/A	2.38	100	Brown	Yellow	Medium	N/A	N/A	8
Q1415-03	B-163-SB02	N/A	2.28	100	Brown	Yellow	Medium	N/A	N/A	9
Q1415-04	B-172-SB02	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	10
DOC-1	DOC Study	N/A	2.19	100	colorless	colorless	fine	N/A	M6002, M6011	11
DOC-2	DOC Study	N/A	2.35	100	colorless	colorless	fine	N/A	M6002, M6011	12
DOC-3	DOC Study	N/A	2.40	100	colorless	colorless	fine	N/A	M6002, M6011	13
DOC-4	DOC Study	N/A	2.10	100	colorless	colorless	fine	N/A	M6002, M6011	14

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166859

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 02/25/2025 **Time :** 09:10 **Temp :** 96 °C

End Digest Date: 02/25/2025 **Time :** 12:15 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SLB.

Supervisor Signature: JP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6002
LFS-1	0.25	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6126
1:1 HCL	5.00	MP84297
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 1 CELL 55 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/25/25 13:15	SLB. met-Lab.	JP Mehnij
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB166859

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB166859BL	PBW859	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	1
PB166859BS	LCS859	<2	50	25	Colorless	Colorless	Clear	Clear	M6002,M6011	2
Q1415-05	FB02222025	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	3
Q1415-06	B-173-GW01	<2	50	50	Brown	Light Brown	Clear	Clear	N/A	7
Q1415-06MS	B-173-GW01MS	<2	50	50	Brown	Light Brown	Clear	Clear	M6002,M6011	5
Q1415-06MSD	B-173-GW01MSD	<2	50	50	Brown	Light Brown	Clear	Clear	M6002,M6011	6
Q1415-06DUP	B-173-GW01DUP	<2	50	50	Brown	Light Brown	Clear	Clear	N/A	4

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166864

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 02/25/2025 **Time :** 13:30 **Temp :** 95 °C

End Digest Date: 02/25/2025 **Time :** 14:00 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JV

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84626
CCV	30mL	MP84628
CRA	30mL	MP84630
Blank Spike	0.48mL	MP84619
Matrix Spike	0.48mL	MP84619

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP84632
KMnO4 (5%)	4.5mL	MP84564
Hydroxylamine HCL (12%)	2.0mL	MP84565
PTFE Boiling Stones	----------	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP84620
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84621
2.5 ppb	S2.5	30mL	MP84622
5.0 ppb	S5.0	30mL	MP84623
7.5 ppb	S7.5	30mL	MP84624
10.0 ppb	S10.0	30mL	MP84625
ICV	ICV	30mL	MP84626
ICB	ICB	30mL	MP84627
CCV	CCV	30mL	MP84628
CCB	CCB	30mL	MP84629
CRI	CRI	30mL	MP84630
CHK STD	CHK STD	30mL	MP84631

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25 @ 14:40	MB- Dig. Lab	MB- Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166864

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB166864BL	PBS864	0.56	35	NA	N/A	N/A
PB166864BS	LCS864	0.54	35	NA	MP84619	N/A
Q1415-01	B-163-SB01	0.50	35	NA	N/A	N/A
Q1415-02	B-172-SB01	0.51	35	NA	N/A	N/A
Q1415-03	B-163-SB02	0.52	35	NA	N/A	N/A
Q1415-04	B-172-SB02	0.51	35	NA	N/A	N/A
Q1416-01	OK-01-022425	0.53	35	NA	N/A	N/A
Q1418-01	TR-06-02242025	0.50	35	NA	N/A	N/A
Q1420-01	TP-1-WC	0.50	35	NA	N/A	N/A
Q1420-05	TP-2-WC	0.54	35	NA	N/A	N/A
Q1421-01	P001-CLAY-CF01-01	0.50	35	NA	N/A	N/A
Q1421-01DUP	P001-CLAY-CF01-01DUP	0.51	35	NA	N/A	N/A
Q1421-02	Q1421-01MS	0.50	35	NA	MP84619	N/A
Q1421-03	Q1421-01MSD	0.52	35	NA	MP84619	N/A
Q1421-07	P001-CLAY-CF01-02	0.52	35	NA	N/A	N/A
Q1421-09	P001-CLAY-CF02-01	0.54	35	NA	N/A	N/A
Q1422-01	B-154-SB01	0.50	35	NA	N/A	N/A
Q1422-02	B-154-SB02	0.54	35	NA	N/A	N/A

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166869

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 02/25/2025 **Time :** 13:10 **Temp :** 94 °C

End Digest Date: 02/25/2025 **Time :** 15:10 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: [signature]

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84626
CCV	30mL	MP84628
CRA	30mL	MP84630
Blank Spike	0.48mL	MP84619
Matrix Spike	0.48mL	MP84619

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP84620
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84621
2.5 ppb	S2.5	30mL	MP84622
5.0 ppb	S5.0	30mL	MP84623
7.5 ppb	S7.5	30mL	MP84624
10.0 ppb	S10.0	30mL	MP84625
ICV	ICV	30mL	MP84626
ICB	ICB	30mL	MP84627
CCV	CCV	30mL	MP84628
CCB	CCB	30mL	MP84629
CRI	CRI	30mL	MP84630
CHK STD	CHK STD	30mL	MP84631

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25 @ 15:40	MB- TSG. Lab	MB- Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB166869

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB166869BL	PBW869	30	30	<2	N/A	3-1
PB166869BS	LCS869	30	30	<2	MP84619	2
Q1409-01DUP	SURFACE-WATER-1DUP	30	30	<2	N/A	4
Q1409-01MS	SURFACE-WATER-1MS	30	30	<2	MP84619	5
Q1409-01MSD	SURFACE-WATER-1MSD	30	30	<2	MP84619	6
Q1409-01	SURFACE-WATER-1	30	30	<2	N/A	3
Q1415-05	FB02222025	30	30	<2	N/A	7
Q1415-06	B-173-GW01	30	30	<2	N/A	8

SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25 15:34
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
		% Solid:	88.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.087	U	1	0.087	0.44	mg/Kg	02/26/25 10:40	02/26/25 15:14	7196A
Trivalent Chromium	17.6		1	0.56	0.56	mg/Kg		03/07/25 11:16	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25 16:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
		% Solid:	86.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.091	U	1	0.091	0.46	mg/Kg	02/26/25 10:40	02/26/25 15:19	7196A
Trivalent Chromium	13.8		1	0.58	0.58	mg/Kg		03/07/25 11:20	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25 16:26
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
		% Solid:	72.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.11	U	1	0.11	0.54	mg/Kg	02/26/25 10:40	02/26/25 15:20	7196A
Trivalent Chromium	19.0		1	0.69	0.69	mg/Kg		03/07/25 11:24	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25 19:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
		% Solid:	89.7

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.087	U	1	0.087	0.44	mg/Kg	02/26/25 10:40	02/26/25 15:21	7196A
Trivalent Chromium	14.9		1	0.56	0.56	mg/Kg		03/07/25 11:28	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25 20:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		02/24/25 13:14	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		03/10/25 13:17	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25 19:45
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		02/24/25 13:15	7196A
trivalent Chromium	0.19		1	0.010	0.010	mg/L		03/10/25 13:50	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1415
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134791

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/24/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	02/24/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/24/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1415
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134815

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	02/26/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	02/26/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/26/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/26/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1415
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134815

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date

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Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB134791

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/24/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/24/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/24/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1415
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB134815

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1415

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: lb134791BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	02/24/2025
Sample ID: PB166851BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	02/26/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01MS
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1370		0.087	U	1450	40	94		02/26/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01MS
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	43.4		0.087	U	45.2	2	96		02/26/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01MS
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	37.8		0.087	U	45.2	2	84		02/26/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-06
Client ID: B-173-GW01MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.98		0.0030	U	1.0	2	98		02/24/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-06
Client ID: B-173-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.98		0.0030	U	1.0	2	98		02/24/2025

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Fax : 908 789 8922

Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-01
Client ID: B-163-SB01DUP
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.087	U	0.087	U	1	0		02/26/2025

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Fax : 908 789 8922

Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-06
Client ID: B-173-GW01DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		02/24/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1415
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1415-06
Client ID: B-173-GW01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.98		0.98		2	0.2		02/24/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1415
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB134791

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID lb134791BS								
Hexavalent Chromium	mg/L	0.5	0.50		100	1	90-111	02/24/2025

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Fax : 908 789 8922

Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1415
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB134815

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB166851BS								
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	02/26/2025

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134791

Review By	rubina	Review On	2/24/2025 4:00:44 PM
Supervise By	Iwona	Supervise On	3/7/2025 8:58:18 AM
SubDirectory	LB134791	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112031,WP112030,WP112028,WP112027,WP111960,WP110380,WP112029,WP112034,WP112032,WP112033

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	02/24/25 13:00		rubina	OK
2	CAL2	CAL2	CAL	02/24/25 13:01		rubina	OK
3	CAL3	CAL3	CAL	02/24/25 13:02		rubina	OK
4	CAL4	CAL4	CAL	02/24/25 13:03		rubina	OK
5	CAL5	CAL5	CAL	02/24/25 13:04		rubina	OK
6	CAL6	CAL6	CAL	02/24/25 13:05		rubina	OK
7	CAL7	CAL7	CAL	02/24/25 13:06		rubina	OK
8	ICV	ICV	ICV	02/24/25 13:07		rubina	OK
9	ICB	ICB	ICB	02/24/25 13:08		rubina	OK
10	CCV1	CCV1	CCV	02/24/25 13:09		rubina	OK
11	CCB1	CCB1	CCB	02/24/25 13:10		rubina	OK
12	RL Check	RL Check	SAM	02/24/25 13:11		rubina	OK
13	lb134791BL	lb134791BL	MB	02/24/25 13:12		rubina	OK
14	lb134791BS	lb134791BS	LCS	02/24/25 13:13		rubina	OK
15	Q1415-05	FB02222025	SAM	02/24/25 13:14		rubina	OK
16	Q1415-06	B-173-GW01	SAM	02/24/25 13:15		rubina	OK
17	Q1415-06DUP	B-173-GW01DUP	DUP	02/24/25 13:16		rubina	OK
18	Q1415-06MS	B-173-GW01MS	MS	02/24/25 13:17		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134791

Review By	rubina	Review On	2/24/2025 4:00:44 PM
Supervise By	Iwona	Supervise On	3/7/2025 8:58:18 AM
SubDirectory	LB134791	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112031,WP112030,WP112028,WP112027,WP111960,WP110380,WP112029,WP112034,WP112032,WP112033

19	Q1415-06MSD	B-173-GW01MSD	MSD	02/24/25 13:18		rubina	OK
20	CCV2	CCV2	CCV	02/24/25 13:19		rubina	OK
21	CCB2	CCB2	CCB	02/24/25 13:20		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134815

Review By	rubina	Review On	2/27/2025 9:48:52 AM
Supervise By	Iwona	Supervise On	3/7/2025 8:57:36 AM
SubDirectory	LB134815	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112061,WP110380,WP110381,WP111249

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	02/26/25 15:00		rubina	OK
2	CAL2	CAL2	CAL	02/26/25 15:01		rubina	OK
3	CAL3	CAL3	CAL	02/26/25 15:02		rubina	OK
4	CAL4	CAL4	CAL	02/26/25 15:03		rubina	OK
5	CAL5	CAL5	CAL	02/26/25 15:04		rubina	OK
6	CAL6	CAL6	CAL	02/26/25 15:05		rubina	OK
7	CAL7	CAL7	CAL	02/26/25 15:06		rubina	OK
8	ICV	ICV	ICV	02/26/25 15:07		rubina	OK
9	ICB	ICB	ICB	02/26/25 15:08		rubina	OK
10	CCV1	CCV1	CCV	02/26/25 15:09		rubina	OK
11	CCB1	CCB1	CCB	02/26/25 15:10		rubina	OK
12	RL Check	RL Check	SAM	02/26/25 15:11		rubina	OK
13	PB166851BL	PB166851BL	MB	02/26/25 15:12		rubina	OK
14	PB166851BS	PB166851BS	LCS	02/26/25 15:13		rubina	OK
15	Q1415-01	B-163-SB01	SAM	02/26/25 15:14		rubina	OK
16	Q1415-01DUP	B-163-SB01DUP	DUP	02/26/25 15:15		rubina	OK
17	Q1415-01MSPre	B-163-SB01MS	MS	02/26/25 15:16		rubina	OK
18	Q1415-01MS2Ins	B-163-SB01MS	MS	02/26/25 15:17		rubina	OK

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Fax : 908 789 8922

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134815

Review By	rubina	Review On	2/27/2025 9:48:52 AM
Supervise By	Iwona	Supervise On	3/7/2025 8:57:36 AM
SubDirectory	LB134815	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112061,WP110380,WP110381,WP111249

19	Q1415-01MS3Post	B-163-SB01MS	MS	02/26/25 15:18		rubina	OK
20	Q1415-02	B-172-SB01	SAM	02/26/25 15:19		rubina	OK
21	Q1415-03	B-163-SB02	SAM	02/26/25 15:20		rubina	OK
22	Q1415-04	B-172-SB02	SAM	02/26/25 15:21		rubina	OK
23	CCV2	CCV2	CCV	02/26/25 15:22		rubina	OK
24	CCB2	CCB2	CCB	02/26/25 15:23		rubina	OK
25	Q1420-01	TP-1-WC	SAM	02/26/25 15:24		rubina	OK
26	Q1420-05	TP-2-WC	SAM	02/26/25 15:25		rubina	OK
27	Q1422-01	B-154-SB01	SAM	02/26/25 15:26		rubina	OK
28	Q1422-02	B-154-SB02	SAM	02/26/25 15:27		rubina	OK
29	Q1427-01	VNJ-227	SAM	02/26/25 15:28		rubina	OK
30	Q1428-01	NB-07-022525	SAM	02/26/25 15:29		rubina	OK
31	CCV3	CCV3	CCV	02/26/25 15:30		rubina	OK
32	CCB3	CCB3	CCB	02/26/25 15:31		rubina	OK

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LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**SOIL**			**02/22/25 15:34**			**02/24/25**
			Hexavalent Chromium	7196A		02/26/25	02/26/25 15:14	
			Trivalent Chromium	6010D			03/07/25 11:16	
Q1415-02	**B-172-SB01**	**SOIL**			**02/22/25 16:00**			**02/24/25**
			Hexavalent Chromium	7196A		02/26/25	02/26/25 15:19	
			Trivalent Chromium	6010D			03/07/25 11:20	
Q1415-03	**B-163-SB02**	**SOIL**			**02/22/25 16:26**			**02/24/25**
			Hexavalent Chromium	7196A		02/26/25	02/26/25 15:20	
			Trivalent Chromium	6010D			03/07/25 11:24	
Q1415-04	**B-172-SB02**	**SOIL**			**02/22/25 19:30**			**02/24/25**
			Hexavalent Chromium	7196A		02/26/25	02/26/25 15:21	
			Trivalent Chromium	6010D			03/07/25 11:28	
Q1415-05	**FB02222025**	**WATER**			**02/22/25 20:30**			**02/24/25**
			Hexavalent Chromium	7196A			02/24/25 13:14	

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LAB CHRONICLE

			trivalent Chromium	6010D		03/10/25 13:17	
Q1415-06	**B-173-GW01**	**WATER**			**02/22/25 19:45**		**02/24/25**
			Hexavalent Chromium	7196A		02/24/25 13:15	
			trivalent Chromium	6010D		03/10/25 13:50	

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Soil/Sludge Hexavalent Chromium Preparation Sheet

PB166851

10

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 02/26/2025 **Time :** 10:40 **Temp :** 90 °C

End Digest Date: 02/26/2025 **Time :** 11:40 **Temp :** 95 °C

LJ beta 02/26/2025 12:00 90c JRM
02/26/2025 13:00 95c

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

Prep Technician Signature: RMP

Supervisor Signature: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50.0ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP111908
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP112057
CAL3	CAL3	0.5ML	WP112057
CAL4	CAL4	1ML	WP112057
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

02/26/2025 RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB166851

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166851BL	PBS851	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB166851BS	LCS851	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01	B-163-SB01	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01DUP	B-163-SB01DUP	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MSPre	B-163-SB01MSPRE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MS2Ins	B-163-SB01MS2INS	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MS3Post	B-163-SB01MS3POST	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-02	B-172-SB01	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-03	B-163-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-04	B-172-SB02	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1420-01	TP-1-WC	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1420-05	TP-2-WC	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1422-01	B-154-SB01	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1422-02	B-154-SB02	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1427-01	VNJ-227	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1428-01	NB-07-022525	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1415
QUOTE NO.
COC Number 2046172

11
11.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Garret Fleming
ADDRESS: 1010 Abrams Ave
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupanske
PHONE: 610-310-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SB
PROJECT NO.: 95C000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupanske
e-mail: QaQc@bcmsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Sandra Beasley PHONE: 908-728-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT BEM EDD

ANALYSIS

1: TCL VOC HO
2: TCL PAHs
3: Cr(III)
4: Cr(VI)
5: TAL metals
6: EPH
7: PCBs
8:
9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-163-SB01	S		X	2/22/25	334	6	X	X	X	X	X	X	X			
2.	B-172-SB01	S		X		400	6	X	X								
3.	B-163-SB02	S		X		426	6	X	X								
4.	B-172-SB02	S		X		730	6	X	X								
5.	FB0222025	DIW		X		830	7	X	X								
6.	B-173-GW01	GW		X		745	8	X	X								
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	2/22/25 11:00	1. 2-21-25 0700
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.7°C °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 2/24/2025 10:32:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 2/24/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1415-01	B-163-SB01	Solid	02/22/2025	15:34					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-02	B-172-SB01	Solid	02/22/2025	16:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-03	B-163-SB02	Solid	02/22/2025	16:26					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-04	B-172-SB02	Solid	02/22/2025	19:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-05	FB02222025	Water	02/22/2025	20:30					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1415-06	B-173-GW01	Water	02/22/2025	19:45					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 2/24/2025 10:32:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 2/24/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : [signature]
Date / Time : 2-24-25 11:05

Received By : [signature]
Date / Time : 2-24-25

Storage Area : VOA Refridgerator Room