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 2024

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 : P4471

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : CHEMTECH

Client : Portal Partners Tri-Venture

Project Location :

Project Number : 9500000878 - Amtrak Sawtooth Bridges 2024

Laboratory Sample ID(s) : P4471

Sampling Date(s) : 0/08/2024,10/19/2024,10/20/2024

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

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 : P4471

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4471-01	B-180-SB01
P4471-02	B-180-SB02
P4471-03	TB100824

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 : _____

Date: 11/4/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4471
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 10/21/2024.
1 Water sample was received on 10/21/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: 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, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.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 except for B-180-SB02 [4-Bromofluorobenzene - 69%] this compound did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
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 Initial Calibration met the requirements .

The Continuous Calibration File ID VN084428.D met the requirements except for 1,1,2-Trichloroethane,2-Hexanone,4-Methyl-2-Pentanone, and Dibromochloromethane are failing high but no positive hit in associate sample therefore no corrective action taken while Carbon Disulfide is failing marginally low therefore no corrective action taken.

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The Tuning criteria met requirements.

E. Additional Comments:

The temperature of the samples at the time of receipt was 23.0°C. Lab notified this issue to the client. See the communication in shipping Document section.

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

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

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_____

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4471
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 10/21/2024.
1 Water sample was received on 10/21/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: 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 3541.

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 {P4467-01MS} with File ID: BF140004.D recoveries met the requirements for all compounds except for 3-Nitroaniline[60%], 4-Chloroaniline[32%], these compounds did not meet the NJDKQP criteria but met the in-house criteria no corrective action was taken.

The MSD {P4467-01MSD} with File ID: BF140005.D recoveries met the acceptable requirements except for 3-Nitroaniline[68%], 4,6-Dinitro-2-methylphenol[136%], 4-Chloroaniline[35%], bis(2-Ethylhexyl)phthalate[136%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, while Hexachlorocyclopentadiene [182%], this compound did not meet the NJDKQP criteria and in-house criteria and due to matrix interference no corrective action is required.

The RPD met criteria .

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The Blank Spike for {PB164312BS} with File ID: BF139992.D met requirements for all samples except for 4,6-Dinitro-2-methylphenol[135%], Hexachlorocyclopentadiene [182%], these compounds did not meet the NJDKQP criteria and in-house criteria but The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BF101824.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration File ID BF139990.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF140001.D met the requirements except for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF140050.D met the requirements except for 4,6-Dinitro-2-methylphenol, 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 temperature of the samples at the time of receipt was 23.0°C. Lab notified this issue to the client. See the communication in shipping Document section.
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4471
Test Name: PCB

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 10/21/2024.
1 Water sample was received on 10/21/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: 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 3541.

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

E. Additional Comments:
The temperature of the samples at the time of receipt was 23.0°C. Lab notified this issue to the client. See the communication in shipping Document section.

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

F. Manual Integration Comments:

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

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4471
Test Name: EPH

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 10/21/2024.
1 Water sample was received on 10/21/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: 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 3541.

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 {P4460-03MS} with File ID: FC067492.D recoveries met the requirements for all compounds except for Aliphatic C16-C21[141%], Aliphatic C21-C28[148%]due to matrix interference.

The MSD {P4460-03MSD} with File ID: FC067493.D recoveries met the acceptable requirements except for Aliphatic C21-C28[140%]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 temperature of the samples at the time of receipt was 23.0°C. Lab notified this issue to the client. See the communication in shipping Document section.

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.

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4471
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 10/21/2024.
1 Water sample was received on 10/21/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: 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). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met criteria for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (CL-01-102124MS) analysis met criteria for all samples except for Antimony, Sodium due to chemical interference during digestion process.
The Matrix Spike Duplicate (CL-01-102124MSD) analysis met criteria for all samples except for Antimony, Barium, Sodium due to chemical interference during digestion process.
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:
The temperature of the samples at the time of receipt was 23.0°C.Lab notified this issue to the client. See the communication in shipping Document section.

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4471
Test Name: Hexavalent Chromium,Trivalent Chromium

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 10/21/2024.
1 Water sample was received on 10/21/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: 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 Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
The temperature of the samples at the time of receipt was 23.0°C.Lab notified this issue to the client. See the communication in shipping Document section.

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_____

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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 #: P4471

	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:** 11/04/2024

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.: P4471

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**B-180-SB01**								
P4471-01	B-180-SB01	SOIL	Methylene Chloride		3.60	J	2.50	7.30	ug/Kg
P4471-01	B-180-SB01	SOIL	Methylcyclohexane		0.75	J	0.63	3.60	ug/Kg
P4471-01	B-180-SB01	SOIL	Toluene		1.80	J	0.49	3.60	ug/Kg
P4471-01	B-180-SB01	SOIL	m/p-Xylenes		2.00	J	0.98	7.30	ug/Kg
P4471-01	B-180-SB01	SOIL	o-Xylene		0.85	J	0.51	3.60	ug/Kg
			Total Voc :		9.00				
P4471-01	B-180-SB01	SOIL	1,2,4-Trimethylbenzene	*	2.30	J	0.99	3.60	ug/Kg
			Total Tics :		2.30				
			Total Concentration:		11.3				
Client ID:	**B-180-SB02**								
P4471-02	B-180-SB02	SOIL	Acetone		360		16.7	66.9	ug/Kg
P4471-02	B-180-SB02	SOIL	Carbon Disulfide		25.8		3.40	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	2-Butanone		100		15.2	66.9	ug/Kg
P4471-02	B-180-SB02	SOIL	Toluene		5.60	J	1.80	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	m/p-Xylenes		4.20	J	3.60	26.7	ug/Kg
P4471-02	B-180-SB02	SOIL	Isopropylbenzene		120		1.80	13.4	ug/Kg
			Total Voc :		616				
P4471-02	B-180-SB02	SOIL	unknown13.669	*	110	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Camphene	*	86.7	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Bicyclo[2.2.1]heptane, 7,7-dim	*	64.0	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Cyclohexene, 4-methyl-1-(1-m	*	120	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Tridecane	*	55.0	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Octane, 2,6-dimethyl-	*	41.1	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Naphthalene, decahydro-2-metl	*	83.7	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Dodecane, 6-methyl-	*	64.9	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1-Iodo-2-methylnonane	*	88.7	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Diethyl Ether	*	3.00	J	1.70	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	1,2,4-Trimethylbenzene	*	6.50	J	3.70	13.4	ug/Kg
P4471-02	B-180-SB02	SOIL	p-Isopropyltoluene	*	290	J	1.60	13.4	ug/Kg
			Total Tics :		1010				
			Total Concentration:		1630				

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.8
Sample Wt/Vol:	8.32 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
VY019979.D	1		10/22/24 14:23	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	3.60	ug/Kg
74-87-3	Chloromethane	0.84	U	0.84	3.60	ug/Kg
75-01-4	Vinyl Chloride	0.56	U	0.56	3.60	ug/Kg
74-83-9	Bromomethane	0.75	U	0.75	3.60	ug/Kg
75-00-3	Chloroethane	0.73	U	0.73	3.60	ug/Kg
75-69-4	Trichlorofluoromethane	0.66	U	0.66	3.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.78	U	0.78	3.60	ug/Kg
75-35-4	1,1-Dichloroethene	0.57	U	0.57	3.60	ug/Kg
67-64-1	Acetone	4.50	U	4.50	18.1	ug/Kg
75-15-0	Carbon Disulfide	0.93	U	0.93	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.49	U	0.49	3.60	ug/Kg
79-20-9	Methyl Acetate	1.30	U	1.30	3.60	ug/Kg
75-09-2	Methylene Chloride	3.60	J	2.50	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.61	U	0.61	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.46	U	0.46	3.60	ug/Kg
110-82-7	Cyclohexane	0.50	U	0.50	3.60	ug/Kg
78-93-3	2-Butanone	4.10	U	4.10	18.1	ug/Kg
56-23-5	Carbon Tetrachloride	0.63	U	0.63	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.44	U	0.44	3.60	ug/Kg
74-97-5	Bromochloromethane	1.80	U	1.80	3.60	ug/Kg
67-66-3	Chloroform	0.49	U	0.49	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.57	U	0.57	3.60	ug/Kg
108-87-2	Methylcyclohexane	0.75	J	0.63	3.60	ug/Kg
71-43-2	Benzene	0.52	U	0.52	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.44	U	0.44	3.60	ug/Kg
79-01-6	Trichloroethene	0.54	U	0.54	3.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.48	U	0.48	3.60	ug/Kg
75-27-4	Bromodichloromethane	0.41	U	0.41	3.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.20	U	3.20	18.1	ug/Kg
108-88-3	Toluene	1.80	J	0.49	3.60	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.8
Sample Wt/Vol:	8.32 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
VY019979.D	1		10/22/24 14:23	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.44	U	0.44	3.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.41	U	0.41	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.61	U	0.61	3.60	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	18.1	ug/Kg
124-48-1	Dibromochloromethane	0.47	U	0.47	3.60	ug/Kg
106-93-4	1,2-Dibromoethane	0.57	U	0.57	3.60	ug/Kg
127-18-4	Tetrachloroethene	0.65	U	0.65	3.60	ug/Kg
108-90-7	Chlorobenzene	0.54	U	0.54	3.60	ug/Kg
100-41-4	Ethyl Benzene	0.45	U	0.45	3.60	ug/Kg
179601-23-1	m/p-Xylenes	2.00	J	0.98	7.30	ug/Kg
95-47-6	o-Xylene	0.85	J	0.51	3.60	ug/Kg
100-42-5	Styrene	0.44	U	0.44	3.60	ug/Kg
75-25-2	Bromoform	0.59	U	0.59	3.60	ug/Kg
98-82-8	Isopropylbenzene	0.49	U	0.49	3.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	0.80	3.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.54	U	0.54	3.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.58	U	0.58	3.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.43	U	0.43	3.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.10	U	1.10	3.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.57	U	0.57	3.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.57	U	0.57	3.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		70 (50) - 130 (163)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (58) - 130 (134)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.6		70 (29) - 130 (146)	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	272000	7.707			
540-36-3	1,4-Difluorobenzene	558000	8.616			
3114-55-4	Chlorobenzene-d5	507000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	178000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.8
Sample Wt/Vol:	8.32 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
VY019979.D	1		10/22/24 14:23	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
95-63-6	1,2,4-Trimethylbenzene	2.30	J		13.0	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:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	49.2
Sample Wt/Vol:	3.8 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
VY019993.D	1		10/23/24 14:45	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	4.40	U	4.40	13.4	ug/Kg
74-87-3	Chloromethane	3.10	U	3.10	13.4	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	2.10	13.4	ug/Kg
74-83-9	Bromomethane	2.80	U	2.80	13.4	ug/Kg
75-00-3	Chloroethane	2.70	U	2.70	13.4	ug/Kg
75-69-4	Trichlorofluoromethane	2.40	U	2.40	13.4	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.90	U	2.90	13.4	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	2.10	13.4	ug/Kg
67-64-1	Acetone	360		16.7	66.9	ug/Kg
75-15-0	Carbon Disulfide	25.8		3.40	13.4	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	1.80	13.4	ug/Kg
79-20-9	Methyl Acetate	4.80	U	4.80	13.4	ug/Kg
75-09-2	Methylene Chloride	9.10	U	9.10	26.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.20	U	2.20	13.4	ug/Kg
75-34-3	1,1-Dichloroethane	1.70	U	1.70	13.4	ug/Kg
110-82-7	Cyclohexane	1.80	U	1.80	13.4	ug/Kg
78-93-3	2-Butanone	100		15.2	66.9	ug/Kg
56-23-5	Carbon Tetrachloride	2.30	U	2.30	13.4	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.60	U	1.60	13.4	ug/Kg
74-97-5	Bromochloromethane	6.50	U	6.50	13.4	ug/Kg
67-66-3	Chloroform	1.80	U	1.80	13.4	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	2.10	13.4	ug/Kg
108-87-2	Methylcyclohexane	2.30	U	2.30	13.4	ug/Kg
71-43-2	Benzene	1.90	U	1.90	13.4	ug/Kg
107-06-2	1,2-Dichloroethane	1.60	U	1.60	13.4	ug/Kg
79-01-6	Trichloroethene	2.00	U	2.00	13.4	ug/Kg
78-87-5	1,2-Dichloropropane	1.80	U	1.80	13.4	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	1.50	13.4	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11.6	U	11.6	66.9	ug/Kg
108-88-3	Toluene	5.60	J	1.80	13.4	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	49.2
Sample Wt/Vol:	3.8 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
VY019993.D	1		10/23/24 14:45	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.60	U	1.60	13.4	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.50	U	1.50	13.4	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.20	U	2.20	13.4	ug/Kg
591-78-6	2-Hexanone	12.8	U	12.8	66.9	ug/Kg
124-48-1	Dibromochloromethane	1.70	U	1.70	13.4	ug/Kg
106-93-4	1,2-Dibromoethane	2.10	U	2.10	13.4	ug/Kg
127-18-4	Tetrachloroethene	2.40	U	2.40	13.4	ug/Kg
108-90-7	Chlorobenzene	2.00	U	2.00	13.4	ug/Kg
100-41-4	Ethyl Benzene	1.70	U	1.70	13.4	ug/Kg
179601-23-1	m/p-Xylenes	4.20	J	3.60	26.7	ug/Kg
95-47-6	o-Xylene	1.90	U	1.90	13.4	ug/Kg
100-42-5	Styrene	1.60	U	1.60	13.4	ug/Kg
75-25-2	Bromoform	2.20	U	2.20	13.4	ug/Kg
98-82-8	Isopropylbenzene	120		1.80	13.4	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.90	U	2.90	13.4	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	2.00	13.4	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	2.10	13.4	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.60	U	1.60	13.4	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.20	U	4.20	13.4	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.10	U	2.10	13.4	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.10	U	2.10	13.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.9		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	49.6		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	34.7	*	70 (29) - 130 (146)	69%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	211000	7.707			
540-36-3	1,4-Difluorobenzene	423000	8.615			
3114-55-4	Chlorobenzene-d5	336000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	95100	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	49.2
Sample Wt/Vol:	3.8 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
VY019993.D	1		10/23/24 14:45	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
60-29-7	Diethyl Ether	3.00	J		3.47	ug/Kg
000471-84-1	Bicyclo[2.2.1]heptane, 7,7-dimethy	64.0	J		12.5	ug/Kg
000079-92-5	Camphene	86.7	J		12.5	ug/Kg
000500-00-5	Cyclohexene, 4-methyl-1-(1-methyle	120	J		12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	6.50	J		13.0	ug/Kg
99-87-6	p-Isopropyltoluene	290	J		13.3	ug/Kg
	unknown13.669	110	J		13.7	ug/Kg
002958-76-1	Naphthalene, decahydro-2-methyl-	83.7	J		14.2	ug/Kg
1000101-47-9	1-Iodo-2-methylnonane	88.7	J		14.5	ug/Kg
006044-71-9	Dodecane, 6-methyl-	64.9	J		14.6	ug/Kg
002051-30-1	Octane, 2,6-dimethyl-	41.1	J		15.1	ug/Kg
000629-50-5	Tridecane	55.0	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:	10/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TB100824	SDG No.:	P4471
Lab Sample ID:	P4471-03	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
VN084444.D	1		10/21/24 18:28	VN102124

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TB100824	SDG No.:	P4471
Lab Sample ID:	P4471-03	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
VN084444.D	1		10/21/24 18:28	VN102124

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	49.5		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.9		70 (77) - 130 (121)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	8.224			
540-36-3	1,4-Difluorobenzene	284000	9.1			
3114-55-4	Chlorobenzene-d5	245000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	92600	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TB100824	SDG No.:	P4471
Lab Sample ID:	P4471-03	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
VN084444.D	1		10/21/24 18:28	VN102124

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.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
P4471-01	B-180-SB01	1,2-Dichloroethane-d4	50	55.9	112		70 (50)	130 (163)
		Dibromofluoromethane	50	49.9	100		70 (54)	130 (147)
		Toluene-d8	50	51.1	102		70 (58)	130 (134)
		4-Bromofluorobenzene	50	43.6	87		70 (29)	130 (146)
P4471-02	B-180-SB02	1,2-Dichloroethane-d4	50	52.9	106		70 (50)	130 (163)
		Dibromofluoromethane	50	48.8	98		70 (54)	130 (147)
		Toluene-d8	50	49.6	99		70 (58)	130 (134)
		4-Bromofluorobenzene	50	34.7	69	*	70 (29)	130 (146)
VY1022SBL01	VY1022SBL01	1,2-Dichloroethane-d4	50	55.9	112		70 (50)	130 (163)
		Dibromofluoromethane	50	48.9	98		70 (54)	130 (147)
		Toluene-d8	50	50.6	101		70 (58)	130 (134)
		4-Bromofluorobenzene	50	40.3	81		70 (29)	130 (146)
VY1022SBS01	VY1022SBS01	1,2-Dichloroethane-d4	50	53.2	106		70 (50)	130 (163)
		Dibromofluoromethane	50	53.1	106		70 (54)	130 (147)
		Toluene-d8	50	51.4	103		70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.9	102		70 (29)	130 (146)
VY1022SBSD01	VY1022SBSD01	1,2-Dichloroethane-d4	50	56.9	114		70 (50)	130 (163)
		Dibromofluoromethane	50	56.0	112		70 (54)	130 (147)
		Toluene-d8	50	53.3	107		70 (58)	130 (134)
		4-Bromofluorobenzene	50	53.3	107		70 (29)	130 (146)
VY1023SBL01	VY1023SBL01	1,2-Dichloroethane-d4	50	53.8	108		70 (50)	130 (163)
		Dibromofluoromethane	50	49.9	100		70 (54)	130 (147)
		Toluene-d8	50	50.3	101		70 (58)	130 (134)
		4-Bromofluorobenzene	50	42.0	84		70 (29)	130 (146)
VY1023SBS01	VY1023SBS01	1,2-Dichloroethane-d4	50	59.4	119		70 (50)	130 (163)
		Dibromofluoromethane	50	57.1	114		70 (54)	130 (147)
		Toluene-d8	50	54.6	109		70 (58)	130 (134)
		4-Bromofluorobenzene	50	54.1	108		70 (29)	130 (146)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4471-03	TB100824	1,2-Dichloroethane-d4	50	49.5	99	70 (74)	130 (125)
		Dibromofluoromethane	50	52.5	105	70 (75)	130 (124)
		Toluene-d8	50	50.1	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.9	90	70 (77)	130 (121)
VN1021WBL01	VN1021WBL01	1,2-Dichloroethane-d4	50	48.6	97	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	48.8	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.7	89	70 (77)	130 (121)
VN1021WBS01	VN1021WBS01	1,2-Dichloroethane-d4	50	50.5	101	70 (74)	130 (125)
		Dibromofluoromethane	50	54.3	109	70 (75)	130 (124)
		Toluene-d8	50	54.0	108	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)
VN1021WBSD0	VN1021WBSD01	1,2-Dichloroethane-d4	50	51.1	102	70 (74)	130 (125)
		Dibromofluoromethane	50	52.8	106	70 (75)	130 (124)
		Toluene-d8	50	51.8	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.5	105	70 (77)	130 (121)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084433.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1021WBS01	Dichlorodifluoromethane	20	16.1	ug/L	81			40 (69)	160 (116)	
	Chloromethane	20	16.1	ug/L	81			40 (65)	160 (116)	
	Vinyl chloride	20	16.7	ug/L	84			70 (65)	130 (117)	
	Bromomethane	20	16.5	ug/L	83			40 (58)	160 (125)	
	Chloroethane	20	15.0	ug/L	75			40 (56)	160 (128)	
	Trichlorofluoromethane	20	18.1	ug/L	91			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	18.1	ug/L	91			70 (80)	130 (112)	
	1,1-Dichloroethene	20	17.6	ug/L	88			70 (74)	130 (110)	
	Acetone	100	87.5	ug/L	88			40 (60)	160 (125)	
	Carbon disulfide	20	14.2	ug/L	71			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	18.1	ug/L	91			70 (78)	130 (114)	
	Methyl Acetate	20	22.5	ug/L	113			70 (67)	130 (125)	
	Methylene Chloride	20	18.6	ug/L	93			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	17.4	ug/L	87			70 (75)	130 (108)	
	1,1-Dichloroethane	20	19.2	ug/L	96			70 (78)	130 (112)	
	Cyclohexane	20	16.0	ug/L	80			70 (75)	130 (110)	
	2-Butanone	100	88.7	ug/L	89			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.9	ug/L	95			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	18.2	ug/L	91			70 (77)	130 (110)	
	Bromochloromethane	20	19.6	ug/L	98			70 (70)	130 (124)	
	Chloroform	20	19.0	ug/L	95			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	18.7	ug/L	94			70 (80)	130 (108)	
	Methylcyclohexane	20	16.2	ug/L	81			70 (72)	130 (115)	
	Benzene	20	19.0	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.9	ug/L	95			70 (80)	130 (115)	
	Trichloroethene	20	19.2	ug/L	96			70 (77)	130 (113)	
	1,2-Dichloropropane	20	19.6	ug/L	98			70 (83)	130 (111)	
	Bromodichloromethane	20	19.5	ug/L	98			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	96.8	ug/L	97			40 (74)	160 (118)	
	Toluene	20	19.6	ug/L	98			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	18.5	ug/L	93			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	18.9	ug/L	95			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			70 (83)	130 (112)	
	2-Hexanone	100	96.1	ug/L	96			40 (73)	160 (117)	
	Dibromochloromethane	20	20.1	ug/L	101			70 (82)	130 (110)	
	1,2-Dibromoethane	20	19.0	ug/L	95			70 (81)	130 (110)	
	Tetrachloroethene	20	18.9	ug/L	95			70 (67)	130 (123)	
	Chlorobenzene	20	19.2	ug/L	96			70 (82)	130 (109)	
	Ethyl Benzene	20	18.5	ug/L	93			70 (83)	130 (109)	
	m/p-Xylenes	40	38.5	ug/L	96			70 (82)	130 (110)	
	o-Xylene	20	20.0	ug/L	100			70 (83)	130 (109)	
	Styrene	20	19.5	ug/L	98			70 (80)	130 (111)	
	Bromoform	20	19.5	ug/L	98			70 (79)	130 (109)	
	Isopropylbenzene	20	18.2	ug/L	91			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.4	ug/L	97			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	18.6	ug/L	93			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	18.8	ug/L	94			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	18.3	ug/L	92			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084433.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1021WBS01	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	17.6	ug/L	88			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	17.2	ug/L	86			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084434.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1021WBSD01	Dichlorodifluoromethane	20	16.8	ug/L	84	4		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.3	ug/L	81	0		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	17.1	ug/L	86	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	17.0	ug/L	85	2		40 (58)	160 (125)	20 (20)
	Chloroethane	20	16.0	ug/L	80	6		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.0	ug/L	95	4		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97	6		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	17.7	ug/L	89	1		70 (74)	130 (110)	20 (20)
	Acetone	100	91.6	ug/L	92	4		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	14.5	ug/L	73	3		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	19.8	ug/L	99	8		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	24.0	ug/L	120	6		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.2	ug/L	101	8		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	18.4	ug/L	92	6		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	19.6	ug/L	98	2		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	16.2	ug/L	81	1		70 (75)	130 (110)	20 (20)
	2-Butanone	100	96.8	ug/L	97	9		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.4	ug/L	97	2		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	19.2	ug/L	96	5		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	21.7	ug/L	109	11		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.1	ug/L	101	6		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	19.8	ug/L	99	5		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	17.0	ug/L	85	5		70 (72)	130 (115)	20 (20)
	Benzene	20	19.6	ug/L	98	3		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.6	ug/L	103	8		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.5	ug/L	98	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	20.9	ug/L	104	6		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	20.9	ug/L	104	6		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	100	ug/L	100	3		40 (74)	160 (118)	20 (20)
	Toluene	20	20.3	ug/L	102	4		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	19.7	ug/L	99	6		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	20.0	ug/L	100	5		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.5	ug/L	113	10		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	100	ug/L	100	4		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	21.8	ug/L	109	8		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	20.7	ug/L	104	9		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.3	ug/L	97	2		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.5	ug/L	98	2		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	18.4	ug/L	92	1		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	38.8	ug/L	97	1		70 (82)	130 (110)	20 (20)
	o-Xylene	20	18.8	ug/L	94	6		70 (83)	130 (109)	20 (20)
	Styrene	20	19.8	ug/L	99	1		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.7	ug/L	104	6		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	18.4	ug/L	92	1		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	20.6	ug/L	103	6		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.3	ug/L	97	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	18.8	ug/L	94	2		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084434.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1021WBSD01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93	8		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94	7		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	18.2	ug/L	91	6		70 (76)	130 (114)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019971.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1022SBS01	Dichlorodifluoromethane	20	16.5	ug/Kg	83			40 (64)	160 (136)	
	Chloromethane	20	18.9	ug/Kg	95			40 (70)	160 (130)	
	Vinyl chloride	20	19.4	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.8	ug/Kg	104			40 (58)	160 (141)	
	Chloroethane	20	20.0	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.9	ug/Kg	100			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/Kg	102			70 (81)	130 (123)	
	1,1-Dichloroethene	20	18.2	ug/Kg	91			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	13.2	ug/Kg	66			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	20.9	ug/Kg	104			70 (77)	130 (129)	
	Methyl Acetate	20	21.1	ug/Kg	106			70 (69)	130 (149)	
	Methylene Chloride	20	21.5	ug/Kg	108			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	18.0	ug/Kg	90			70 (80)	130 (123)	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			70 (82)	130 (123)	
	Cyclohexane	20	18.0	ug/Kg	90			70 (76)	130 (122)	
	2-Butanone	100	110	ug/Kg	110			40 (69)	160 (131)	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.0	ug/Kg	100			70 (82)	130 (123)	
	Bromochloromethane	20	21.6	ug/Kg	108			70 (80)	130 (127)	
	Chloroform	20	21.9	ug/Kg	110			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103			70 (80)	130 (126)	
	Methylcyclohexane	20	17.6	ug/Kg	88			70 (77)	130 (123)	
	Benzene	20	20.1	ug/Kg	101			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.8	ug/Kg	104			70 (81)	130 (126)	
	Trichloroethene	20	19.0	ug/Kg	95			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.7	ug/Kg	109			70 (83)	130 (122)	
	Bromodichloromethane	20	21.7	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.8	ug/Kg	99			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	22.5	ug/Kg	113			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	20.9	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.4	ug/Kg	102			70 (80)	130 (125)	
	Tetrachloroethene	20	18.5	ug/Kg	93			70 (83)	130 (125)	
	Chlorobenzene	20	20.2	ug/Kg	101			70 (84)	130 (122)	
	Ethyl Benzene	20	20.0	ug/Kg	100			70 (82)	130 (124)	
	m/p-Xylenes	40	39.3	ug/Kg	98			70 (83)	130 (124)	
	o-Xylene	20	19.4	ug/Kg	97			70 (83)	130 (123)	
	Styrene	20	20.2	ug/Kg	101			70 (82)	130 (124)	
	Bromoform	20	20.4	ug/Kg	102			70 (75)	130 (127)	
	Isopropylbenzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	22.1	ug/Kg	111			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	19.7	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019971.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1022SBS01	1,2-Dibromo-3-Chloropropane	20	20.9	ug/Kg	104			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	18.1	ug/Kg	91			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	18.5	ug/Kg	93			70 (70)	130 (137)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019972.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1022SBSD01	Dichlorodifluoromethane	20	17.4	ug/Kg	87	5		40 (64)	160 (136)	30 (20)
	Chloromethane	20	18.4	ug/Kg	92	3		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.8	ug/Kg	94	3		70 (72)	130 (129)	30 (20)
	Bromomethane	20	20.5	ug/Kg	103	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	20.1	ug/Kg	101	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.8	ug/Kg	99	1		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	1		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	17.7	ug/Kg	89	2		70 (79)	130 (121)	30 (20)
	Acetone	100	120	ug/Kg	120	9		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	13.1	ug/Kg	66	0		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	21.4	ug/Kg	107	3		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	22.4	ug/Kg	112	6		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	21.0	ug/Kg	105	3		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	18.6	ug/Kg	93	3		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	22.1	ug/Kg	111	3		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	17.3	ug/Kg	86	5		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	9		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	18.7	ug/Kg	94	5		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	20.9	ug/Kg	104	4		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	22.6	ug/Kg	113	5		70 (80)	130 (127)	30 (20)
	Chloroform	20	22.5	ug/Kg	113	3		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103	0		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	17.4	ug/Kg	87	1		70 (77)	130 (123)	30 (20)
	Benzene	20	20.2	ug/Kg	101	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	21.5	ug/Kg	108	4		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	19.4	ug/Kg	97	2		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.7	ug/Kg	109	0		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	21.8	ug/Kg	109	0		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	9		40 (70)	160 (135)	30 (20)
	Toluene	20	20.6	ug/Kg	103	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101	0		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	4		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.1	ug/Kg	111	2		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	110	ug/Kg	110	0		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	21.2	ug/Kg	106	2		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	20.6	ug/Kg	103	1		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	18.3	ug/Kg	92	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.2	ug/Kg	101	0		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	20.0	ug/Kg	100	0		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	38.9	ug/Kg	97	1		70 (83)	130 (124)	30 (20)
	o-Xylene	20	19.7	ug/Kg	99	2		70 (83)	130 (123)	30 (20)
	Styrene	20	20.4	ug/Kg	102	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.2	ug/Kg	101	1		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	20.2	ug/Kg	101	2		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	23.3	ug/Kg	117	5		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	20.3	ug/Kg	102	5		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103	4		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.6	ug/Kg	103	1		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019972.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1022SBSD01	1,2-Dibromo-3-Chloropropane	20	21.8	ug/Kg	109	5		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97	6		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95	2		70 (70)	130 (137)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019987.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1023SBS01	Dichlorodifluoromethane	20	16.8	ug/Kg	84			40 (64)	160 (136)	
	Chloromethane	20	18.7	ug/Kg	94			40 (70)	160 (130)	
	Vinyl chloride	20	19.7	ug/Kg	99			70 (72)	130 (129)	
	Bromomethane	20	21.3	ug/Kg	106			40 (58)	160 (141)	
	Chloroethane	20	21.6	ug/Kg	108			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.1	ug/Kg	106			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	21.7	ug/Kg	109			70 (81)	130 (123)	
	1,1-Dichloroethene	20	19.5	ug/Kg	98			70 (79)	130 (121)	
	Acetone	100	110	ug/Kg	110			40 (60)	160 (131)	
	Carbon disulfide	20	14.0	ug/Kg	70			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	22.6	ug/Kg	113			70 (77)	130 (129)	
	Methyl Acetate	20	22.5	ug/Kg	113			70 (69)	130 (149)	
	Methylene Chloride	20	20.9	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.8	ug/Kg	99			70 (80)	130 (123)	
	1,1-Dichloroethane	20	22.5	ug/Kg	113			70 (82)	130 (123)	
	Cyclohexane	20	19.1	ug/Kg	96			70 (76)	130 (122)	
	2-Butanone	100	120	ug/Kg	120			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109			70 (82)	130 (123)	
	Bromochloromethane	20	22.9	ug/Kg	115			70 (80)	130 (127)	
	Chloroform	20	23.8	ug/Kg	119			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	22.6	ug/Kg	113			70 (80)	130 (126)	
	Methylcyclohexane	20	18.0	ug/Kg	90			70 (77)	130 (123)	
	Benzene	20	20.1	ug/Kg	101			70 (84)	130 (121)	
	1,2-Dichloroethane	20	22.0	ug/Kg	110			70 (81)	130 (126)	
	Trichloroethene	20	19.4	ug/Kg	97			70 (83)	130 (122)	
	1,2-Dichloropropane	20	21.4	ug/Kg	107			70 (83)	130 (122)	
	Bromodichloromethane	20	21.8	ug/Kg	109			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			40 (70)	160 (135)	
	Toluene	20	20.4	ug/Kg	102			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.6	ug/Kg	103			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	22.5	ug/Kg	113			70 (82)	130 (125)	
	2-Hexanone	100	110	ug/Kg	110			40 (66)	160 (138)	
	Dibromochloromethane	20	21.0	ug/Kg	105			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.6	ug/Kg	103			70 (80)	130 (125)	
	Tetrachloroethene	20	18.4	ug/Kg	92			70 (83)	130 (125)	
	Chlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (122)	
	Ethyl Benzene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	40.5	ug/Kg	101			70 (83)	130 (124)	
	o-Xylene	20	20.6	ug/Kg	103			70 (83)	130 (123)	
	Styrene	20	20.8	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	20.4	ug/Kg	102			70 (75)	130 (127)	
	Isopropylbenzene	20	21.6	ug/Kg	108			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	23.1	ug/Kg	116			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	21.3	ug/Kg	106			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	21.1	ug/Kg	106			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY019987.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1023SBS01	1,2-Dibromo-3-Chloropropane	20	20.5	ug/Kg	103			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.3	ug/Kg	97			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.1	ug/Kg	96			70 (70)	130 (137)	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1021WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VN084430.D Lab Sample ID: VN1021WBL01

Date Analyzed: 10/21/2024 Time Analyzed: 12:36

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
VN1021WBS01	VN1021WBS01	VN084433.D	10/21/2024
VN1021WBSD01	VN1021WBSD01	VN084434.D	10/21/2024
TB100824	P4471-03	VN084444.D	10/21/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1022SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019970.D Lab Sample ID: VY1022SBL01

Date Analyzed: 10/22/2024 Time Analyzed: 10:36

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
VY1022SBS01	VY1022SBS01	VY019971.D	10/22/2024
VY1022SBSD01	VY1022SBSD01	VY019972.D	10/22/2024
B-180-SB01	P4471-01	VY019979.D	10/22/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1023SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019986.D Lab Sample ID: VY1023SBL01

Date Analyzed: 10/23/2024 Time Analyzed: 11:35

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
VY1023SBS01	VY1023SBS01	VY019987.D	10/23/2024
B-180-SB02	P4471-02	VY019993.D	10/23/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VN084211.D BFB Injection Date: 09/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:24

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	19.9
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	69.7 (98.2) 1
177	5.0 - 9.0% of mass 176	4.9 (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
VSTDICC100	VSTDICC100	VN084213.D	09/30/2024	12:25
VSTDICCC050	VSTDICCC050	VN084214.D	09/30/2024	12:49
VSTDICC020	VSTDICC020	VN084215.D	09/30/2024	13:13
VSTDICC010	VSTDICC010	VN084216.D	09/30/2024	13:37
VSTDICC005	VSTDICC005	VN084217.D	09/30/2024	14:00
VSTDICC001	VSTDICC001	VN084218.D	09/30/2024	14:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VN084427.D BFB Injection Date: 10/21/2024

Instrument ID: MSVOA_N BFB Injection Time: 11:14

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	17
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	72.7
175	5.0 - 9.0% of mass 174	5.1 (7) 1
176	95.0 - 101.0% of mass 174	70 (96.3) 1
177	5.0 - 9.0% of mass 176	4.6 (6.6) 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	VN084428.D	10/21/2024	11:38
VN1021WBL01	VN1021WBL01	VN084430.D	10/21/2024	12:36
VN1021WBS01	VN1021WBS01	VN084433.D	10/21/2024	13:48
VN1021WBSD01	VN1021WBSD01	VN084434.D	10/21/2024	14:22
TB100824	P4471-03	VN084444.D	10/21/2024	18:28

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019826.D BFB Injection Date: 10/09/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:33

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	22.4
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	76.9
175	5.0 - 9.0% of mass 174	5.6 (7.3) 1
176	95.0 - 101.0% of mass 174	73.9 (96.2) 1
177	5.0 - 9.0% of mass 176	4.8 (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	VY019827.D	10/09/2024	10:18
VSTDICC010	VSTDICC010	VY019828.D	10/09/2024	10:41
VSTDICC020	VSTDICC020	VY019829.D	10/09/2024	11:04
VSTDICCC050	VSTDICCC050	VY019830.D	10/09/2024	11:26
VSTDICC100	VSTDICC100	VY019831.D	10/09/2024	11:49
VSTDICC150	VSTDICC150	VY019832.D	10/09/2024	12:11

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019968.D BFB Injection Date: 10/22/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:49

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	24.6
75	30.0 - 60.0% of mass 95	58.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	6.1 (8.2) 1
176	95.0 - 101.0% of mass 174	73 (98.3) 1
177	5.0 - 9.0% of mass 176	4.6 (6.3) 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	VY019969.D	10/22/2024	10:01
VY1022SBL01	VY1022SBL01	VY019970.D	10/22/2024	10:36
VY1022SBS01	VY1022SBS01	VY019971.D	10/22/2024	11:16
VY1022SBSD01	VY1022SBSD01	VY019972.D	10/22/2024	11:38
B-180-SB01	P4471-01	VY019979.D	10/22/2024	14:23

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019984.D BFB Injection Date: 10/23/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:51

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	24.9
75	30.0 - 60.0% of mass 95	58.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1 (1.5) 1
174	50.0 - 100.0% of mass 95	70
175	5.0 - 9.0% of mass 174	5.4 (7.8) 1
176	95.0 - 101.0% of mass 174	68.4 (97.6) 1
177	5.0 - 9.0% of mass 176	4.5 (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
VSTDCCC050	VSTDCCC050	VY019985.D	10/23/2024	10:58
VY1023SBL01	VY1023SBL01	VY019986.D	10/23/2024	11:35
VY1023SBS01	VY1023SBS01	VY019987.D	10/23/2024	12:20
B-180-SB02	P4471-02	VY019993.D	10/23/2024	14:45

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VN084428.D Date Analyzed: 10/21/2024

Instrument ID: MSVOA_N Time Analyzed: 11:38

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	157355	8.22	262800	9.10	244635	11.87
UPPER LIMIT	314710	8.724	525600	9.6	489270	12.365
LOWER LIMIT	78677.5	7.724	131400	8.6	122318	11.365
EPA SAMPLE NO.						
TB100824	164715	8.22	283567	9.10	244917	11.87
VN1021WBL01	167468	8.22	295479	9.10	254088	11.87
VN1021WBS01	189913	8.22	322919	9.10	284161	11.87
VN1021WBSD01	163086	8.22	278516	9.10	255670	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.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VN084428.D Date Analyzed: 10/21/2024

Instrument ID: MSVOA_N Time Analyzed: 11:38

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

	IS4 AREA #	RT #				
12 HOUR STD	127638	13.788				
UPPER LIMIT	255276	14.288				
LOWER LIMIT	63819	13.288				
EPA SAMPLE NO.						
TB100824	92567	13.79				
VN1021WBL01	99954	13.79				
VN1021WBS01	138325	13.79				
VN1021WBSD01	124118	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.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019969.D Date Analyzed: 10/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:01

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	226762	7.71	399552	8.62	348429	11.41
UPPER LIMIT	453524	8.213	799104	9.116	696858	11.914
LOWER LIMIT	113381	7.213	199776	8.116	174215	10.914
EPA SAMPLE NO.						
B-180-SB01	272409	7.71	558411	8.62	507425	11.41
VY1022SBL01	219150	7.71	450425	8.62	395647	11.41
VY1022SBS01	215657	7.71	379714	8.62	332435	11.41
VY1022SBSD01	222995	7.71	399190	8.61	345246	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.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019969.D Date Analyzed: 10/22/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:01

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

	IS4 AREA #	RT #				
12 HOUR STD	173474	13.347				
UPPER LIMIT	346948	13.847				
LOWER LIMIT	86737	12.847				
EPA SAMPLE NO.						
B-180-SB01	178248	13.35				
VY1022SBL01	132931	13.35				
VY1022SBS01	160914	13.35				
VY1022SBSD01	163027	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.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019985.D Date Analyzed: 10/23/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:58

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	247993	7.71	444115	8.62	376691	11.41
UPPER LIMIT	495986	8.213	888230	9.116	753382	11.914
LOWER LIMIT	123997	7.213	222058	8.116	188346	10.914
EPA SAMPLE NO.						
B-180-SB02	211103	7.71	422929	8.62	336247	11.41
VY1023SBL01	239192	7.71	486232	8.62	427644	11.41
VY1023SBS01	228334	7.71	420481	8.62	359220	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.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: VY019985.D Date Analyzed: 10/23/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:58

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

	IS4 AREA #	RT #				
12 HOUR STD	183428	13.346				
UPPER LIMIT	366856	13.846				
LOWER LIMIT	91714	12.846				
EPA SAMPLE NO.						
B-180-SB02	95105	13.35				
VY1023SBL01	145538	13.35				
VY1023SBS01	165743	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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBL01	SDG No.:	P4471
Lab Sample ID:	VN1021WBL01	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
VN084430.D	1		10/21/24 12:36	VN102124

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 2024	Date Received:	
Client Sample ID:	VN1021WBL01	SDG No.:	P4471
Lab Sample ID:	VN1021WBL01	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
VN084430.D	1		10/21/24 12:36	VN102124

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	48.6		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		70 (77) - 130 (121)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	8.224			
540-36-3	1,4-Difluorobenzene	295000	9.1			
3114-55-4	Chlorobenzene-d5	254000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	100000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBL01	SDG No.:	P4471
Lab Sample ID:	VN1021WBL01	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
VN084430.D	1		10/21/24 12:36	VN102124

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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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 2024	Date Received:	
Client Sample ID:	VY1022SBL01	SDG No.:	P4471
Lab Sample ID:	VY1022SBL01	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
VY019970.D	1		10/22/24 10:36	VY102224

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 2024	Date Received:	
Client Sample ID:	VY1022SBL01	SDG No.:	P4471
Lab Sample ID:	VY1022SBL01	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
VY019970.D	1		10/22/24 10:36	VY102224

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	55.8		70 (50) - 130 (163)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		70 (54) - 130 (147)	98%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		70 (29) - 130 (146)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	219000	7.713			
540-36-3	1,4-Difluorobenzene	450000	8.616			
3114-55-4	Chlorobenzene-d5	396000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBL01	SDG No.:	P4471
Lab Sample ID:	VY1022SBL01	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
VY019970.D	1		10/22/24 10:36	VY102224

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 2024	Date Received:	
Client Sample ID:	VY1023SBL01	SDG No.:	P4471
Lab Sample ID:	VY1023SBL01	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
VY019986.D	1		10/23/24 11:35	VY102324

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 2024	Date Received:	
Client Sample ID:	VY1023SBL01	SDG No.:	P4471
Lab Sample ID:	VY1023SBL01	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
VY019986.D	1		10/23/24 11:35	VY102324

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	53.8		70 (50) - 130 (163)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (58) - 130 (134)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.0		70 (29) - 130 (146)	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	239000	7.707			
540-36-3	1,4-Difluorobenzene	486000	8.616			
3114-55-4	Chlorobenzene-d5	428000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBL01	SDG No.:	P4471
Lab Sample ID:	VY1023SBL01	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
VY019986.D	1		10/23/24 11:35	VY102324

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 2024	Date Received:	
Client Sample ID:	VN1021WBS01	SDG No.:	P4471
Lab Sample ID:	VN1021WBS01	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
VN084433.D	1		10/21/24 13:48	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.1		0.21	1.00	ug/L
74-87-3	Chloromethane	16.1		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	16.7		0.34	1.00	ug/L
74-83-9	Bromomethane	16.5		1.40	5.00	ug/L
75-00-3	Chloroethane	15.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.26	1.00	ug/L
67-64-1	Acetone	87.5		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	14.2		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	22.5		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.0		1.60	5.00	ug/L
78-93-3	2-Butanone	88.7		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.25	1.00	ug/L
74-97-5	Bromochloromethane	19.6		0.18	1.00	ug/L
67-66-3	Chloroform	19.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	16.2		0.19	1.00	ug/L
71-43-2	Benzene	19.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.6		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	19.5		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.8		0.75	5.00	ug/L
108-88-3	Toluene	19.6		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBS01	SDG No.:	P4471
Lab Sample ID:	VN1021WBS01	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
VN084433.D	1		10/21/24 13:48	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.5		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.4		0.21	1.00	ug/L
591-78-6	2-Hexanone	96.1		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.2		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.5		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	1.00	ug/L
100-42-5	Styrene	19.5		0.16	1.00	ug/L
75-25-2	Bromoform	19.5		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	19.4		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.6		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	18.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.6		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.2		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.5		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	54.3		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	53.9		70 (86) - 130 (113)	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	190000	8.224			
540-36-3	1,4-Difluorobenzene	323000	9.1			
3114-55-4	Chlorobenzene-d5	284000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	138000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBS01	SDG No.:	P4471
Lab Sample ID:	VN1021WBS01	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
VN084433.D	1		10/21/24 13:48	VN102124

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 2024	Date Received:	
Client Sample ID:	VY1022SBS01	SDG No.:	P4471
Lab Sample ID:	VY1022SBS01	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
VY019971.D	1		10/22/24 11:16	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.9		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.0		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.9		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	18.2		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	13.2		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.9		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	21.1		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.0		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.0		0.69	5.00	ug/Kg
78-93-3	2-Butanone	110		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.0		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	21.6		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.9		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.6		0.87	5.00	ug/Kg
71-43-2	Benzene	20.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.8		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.0		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.7		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBS01	SDG No.:	P4471
Lab Sample ID:	VY1022SBS01	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
VY019971.D	1		10/22/24 11:16	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.8		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.5		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.9		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.3		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.70	5.00	ug/Kg
100-42-5	Styrene	20.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.4		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	22.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.7		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.1		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.5		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (50) - 130 (163)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (54) - 130 (147)	106%	SPK: 50
2037-26-5	Toluene-d8	51.4		70 (58) - 130 (134)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		70 (29) - 130 (146)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	216000	7.713			
540-36-3	1,4-Difluorobenzene	380000	8.616			
3114-55-4	Chlorobenzene-d5	332000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.347			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBS01	SDG No.:	P4471
Lab Sample ID:	VY1022SBS01	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
VY019971.D	1		10/22/24 11:16	VY102224

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
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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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBS01	SDG No.:	P4471
Lab Sample ID:	VY1023SBS01	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
VY019987.D	1		10/23/24 12:20	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	16.8		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.7		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.7		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.6		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.7		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.5		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	14.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.9		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.8		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.5		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.1		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.7		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	23.8		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.6		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.0		0.87	5.00	ug/Kg
71-43-2	Benzene	20.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.0		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.4		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.8		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	25.0	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBS01	SDG No.:	P4471
Lab Sample ID:	VY1023SBS01	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
VY019987.D	1		10/23/24 12:20	VY102324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.6		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.5		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.0		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.70	5.00	ug/Kg
100-42-5	Styrene	20.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.4		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.6		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.1		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	21.1		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.1		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.4		70 (50) - 130 (163)	119%	SPK: 50
1868-53-7	Dibromofluoromethane	57.1		70 (54) - 130 (147)	114%	SPK: 50
2037-26-5	Toluene-d8	54.6		70 (58) - 130 (134)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		70 (29) - 130 (146)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	228000	7.713			
540-36-3	1,4-Difluorobenzene	420000	8.615			
3114-55-4	Chlorobenzene-d5	359000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	166000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1023SBS01	SDG No.:	P4471
Lab Sample ID:	VY1023SBS01	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
VY019987.D	1		10/23/24 12:20	VY102324

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 2024	Date Received:	
Client Sample ID:	VN1021WBSD01	SDG No.:	P4471
Lab Sample ID:	VN1021WBSD01	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
VN084434.D	1		10/21/24 14:22	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	16.8		0.21	1.00	ug/L
74-87-3	Chloromethane	16.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.1		0.34	1.00	ug/L
74-83-9	Bromomethane	17.0		1.40	5.00	ug/L
75-00-3	Chloroethane	16.0		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.0		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.7		0.26	1.00	ug/L
67-64-1	Acetone	91.6		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	14.5		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	24.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.2		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.2		1.60	5.00	ug/L
78-93-3	2-Butanone	96.8		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.7		0.18	1.00	ug/L
67-66-3	Chloroform	20.1		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.0		0.19	1.00	ug/L
71-43-2	Benzene	19.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.5		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		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	100		0.75	5.00	ug/L
108-88-3	Toluene	20.3		0.18	1.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBSD01	SDG No.:	P4471
Lab Sample ID:	VN1021WBSD01	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
VN084434.D	1		10/21/24 14:22	VN102124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.7		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	22.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.7		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.31	2.00	ug/L
95-47-6	o-Xylene	18.8		0.14	1.00	ug/L
100-42-5	Styrene	19.8		0.16	1.00	ug/L
75-25-2	Bromoform	20.7		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.4		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	19.3		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	18.8		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.2		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		70 (77) - 130 (121)	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	8.224			
540-36-3	1,4-Difluorobenzene	279000	9.1			
3114-55-4	Chlorobenzene-d5	256000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	124000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VN1021WBSD01	SDG No.:	P4471
Lab Sample ID:	VN1021WBSD01	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
VN084434.D	1		10/21/24 14:22	VN102124

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 2024	Date Received:	
Client Sample ID:	VY1022SBSD01	SDG No.:	P4471
Lab Sample ID:	VY1022SBSD01	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
VY019972.D	1		10/22/24 11:38	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	17.4		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.4		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.5		1.00	5.00	ug/Kg
75-00-3	Chloroethane	20.1		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.8		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	17.7		0.78	5.00	ug/Kg
67-64-1	Acetone	120		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	13.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.4		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	22.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	21.0		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.6		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.1		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.3		0.69	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.7		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.9		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	22.6		2.40	5.00	ug/Kg
67-66-3	Chloroform	22.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	17.4		0.87	5.00	ug/Kg
71-43-2	Benzene	20.2		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.7		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.8		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.40	25.0	ug/Kg
108-88-3	Toluene	20.6		0.67	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBSD01	SDG No.:	P4471
Lab Sample ID:	VY1022SBSD01	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
VY019972.D	1		10/22/24 11:38	VY102224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.1		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	21.2		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.6		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.3		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.0		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.9		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.7		0.70	5.00	ug/Kg
100-42-5	Styrene	20.4		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.2		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.3		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.6		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.8		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.4		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.0		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		70 (50) - 130 (163)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	56.1		70 (54) - 130 (147)	112%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (58) - 130 (134)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (29) - 130 (146)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	7.707			
540-36-3	1,4-Difluorobenzene	399000	8.609			
3114-55-4	Chlorobenzene-d5	345000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	163000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1022SBSD01	SDG No.:	P4471
Lab Sample ID:	VY1022SBSD01	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
VY019972.D	1		10/22/24 11:38	VY102224

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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48

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

LAB FILE ID: RRF100 = VN084213.D RRF050 = VN084214.D RRF020 = VN084215.D
RRF010 = VN084216.D RRF005 = VN084217.D RRF001 = VN084218.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.567	0.613	0.600	0.562	0.607	0.600	0.591	3.7
Chloromethane	0.619	0.671	0.677	0.648	0.747	0.690	0.675	6.4
Vinyl Chloride	0.611	0.667	0.665	0.641	0.724	0.617	0.654	6.4
Bromomethane	0.368	0.432	0.432	0.424	0.501		0.431	10.9
Chloroethane	0.375	0.419	0.430	0.433	0.522	0.632	0.468	19.9
Trichlorofluoromethane	0.953	1.060	1.047	0.959	1.113	0.978	1.019	6.4
1,1,2-Trichlorotrifluoroethane	0.542	0.590	0.603	0.532	0.633	0.602	0.584	6.7
1,1-Dichloroethene	0.538	0.587	0.596	0.533	0.631	0.493	0.563	8.9
Acetone	0.299	0.342	0.337	0.298	0.336	0.299	0.318	6.8
Carbon Disulfide	1.588	1.723	1.746	1.650	1.908	2.080	1.782	10.2
Methyl tert-butyl Ether	1.825	2.033	2.035	1.802	2.049	1.656	1.900	8.6
Methyl Acetate	0.607	0.707	0.694	0.691	0.765	0.700	0.694	7.3
Methylene Chloride	0.594	0.655	0.661	0.618	0.669	0.686	0.647	5.3
trans-1,2-Dichloroethene	0.555	0.622	0.619	0.570	0.627	0.546	0.590	6.2
1,1-Dichloroethane	1.075	1.193	1.163	1.084	1.226	1.046	1.131	6.4
Cyclohexane	0.970	1.068	1.084	1.047	1.321		1.098	12
2-Butanone	0.395	0.452	0.465	0.419	0.467	0.404	0.434	7.3
Carbon Tetrachloride	0.515	0.549	0.553	0.508	0.545	0.482	0.525	5.4
cis-1,2-Dichloroethene	0.670	0.741	0.741	0.655	0.767	0.703	0.713	6.2
Bromochloromethane	0.472	0.494	0.486	0.423	0.619	0.535	0.505	13.2
Chloroform	1.083	1.204	1.205	1.117	1.259	1.181	1.175	5.5
1,1,1-Trichloroethane	0.997	1.102	1.089	1.018	1.154	0.972	1.055	6.7
Methylcyclohexane	0.567	0.583	0.577	0.507	0.534	0.428	0.533	11
Benzene	1.434	1.553	1.559	1.410	1.574	1.421	1.492	5.2
1,2-Dichloroethane	0.480	0.528	0.524	0.498	0.544	0.460	0.506	6.3
Trichloroethene	0.334	0.362	0.361	0.329	0.379	0.325	0.348	6.3
1,2-Dichloropropane	0.346	0.375	0.380	0.339	0.388	0.289	0.353	10.4
Bromodichloromethane	0.521	0.557	0.556	0.497	0.570	0.475	0.529	7.2
4-Methyl-2-Pentanone	0.449	0.508	0.510	0.468	0.484	0.387	0.468	9.9
Toluene	0.904	0.970	0.963	0.861	0.920	0.840	0.910	5.8

* 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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48

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

LAB FILE ID: RRF100 = VN084213.D RRF050 = VN084214.D RRF020 = VN084215.D
RRF010 = VN084216.D RRF005 = VN084217.D RRF001 = VN084218.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.562	0.590	0.573	0.517	0.564	0.430	0.539	10.9
cis-1,3-Dichloropropene	0.592	0.638	0.608	0.569	0.606	0.469	0.580	10.2
1,1,2-Trichloroethane	0.317	0.349	0.347	0.316	0.340	0.288	0.326	7.3
2-Hexanone	0.341	0.387	0.387	0.340	0.357	0.285	0.349	10.8
Dibromochloromethane	0.384	0.418	0.409	0.374	0.396	0.330	0.385	8.1
1,2-Dibromoethane	0.328	0.358	0.362	0.315	0.361	0.309	0.339	7.2
Tetrachloroethene	0.323	0.359	0.351	0.338	0.373	0.346	0.348	5
Chlorobenzene	1.068	1.170	1.143	1.069	1.173	1.028	1.109	5.5
Ethyl Benzene	1.988	2.121	2.028	1.840	2.030	1.756	1.961	6.9
m/p-Xylenes	0.741	0.806	0.779	0.695	0.729	0.600	0.725	10
o-Xylene	0.714	0.774	0.738	0.666	0.734	0.491	0.686	14.9
Styrene	1.234	1.312	1.238	1.112	1.159	0.918	1.162	11.9
Bromoform	0.282	0.315	0.303	0.260	0.288	0.239	0.281	10
Isopropylbenzene	3.737	4.132	4.055	3.677	3.864	3.428	3.815	6.8
1,1,2,2-Tetrachloroethane	1.001	1.183	1.187	1.127	1.291	1.095	1.147	8.5
1,3-Dichlorobenzene	1.624	1.787	1.780	1.646	1.843	1.679	1.727	5.1
1,4-Dichlorobenzene	1.628	1.784	1.734	1.638	1.889	1.789	1.744	5.7
1,2-Dichlorobenzene	1.555	1.710	1.740	1.613	1.769	1.770	1.693	5.3
1,2-Dibromo-3-Chloropropane	0.209	0.238	0.253	0.242	0.271	0.207	0.237	10.4
1,2,4-Trichlorobenzene	0.859	0.933	0.923	0.792	0.839	0.657	0.834	12.2
1,2,3-Trichlorobenzene	0.816	0.896	0.903	0.820	0.822	0.751	0.835	6.8
1,2-Dichloroethane-d4	0.673	0.737	0.764	0.712	0.821		0.741	7.5
Dibromofluoromethane	0.308	0.324	0.341	0.316	0.359		0.330	6.1
Toluene-d8	1.189	1.243	1.242	1.148	1.242		1.213	3.5
4-Bromofluorobenzene	0.447	0.452	0.449	0.406	0.456		0.442	4.6

* 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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11

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

LAB FILE ID: RRF005 = VY019827.D RRF010 = VY019828.D RRF020 = VY019829.D
RRF050 = VY019830.D RRF100 = VY019831.D RRF150 = VY019832.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.500	0.498	0.410	0.458	0.434	0.492	0.465	8.1
Chloromethane	0.643	0.637	0.517	0.616	0.550	0.671	0.606	9.8
Vinyl Chloride	0.707	0.685	0.579	0.688	0.624	0.716	0.667	8
Bromomethane	0.458	0.447	0.357	0.433	0.390	0.447	0.422	9.4
Chloroethane	0.493	0.469	0.390	0.456	0.408	0.472	0.448	8.9
Trichlorofluoromethane	1.101	1.016	0.868	1.000	0.915	1.051	0.992	8.7
1,1,2-Trichlorotrifluoroethane	0.619	0.611	0.509	0.581	0.535	0.606	0.577	7.8
1,1-Dichloroethene	0.588	0.558	0.453	0.550	0.499	0.570	0.536	9.4
Acetone	0.196	0.156	0.134	0.170	0.152	0.153	0.160	12.9
Carbon Disulfide	1.501	1.392	1.193	1.552	1.404	1.586	1.438	10
Methyl tert-butyl Ether	1.719	1.559	1.334	1.574	1.443	1.617	1.541	8.8
Methyl Acetate	0.393	0.334	0.301	0.350	0.321	0.372	0.345	9.7
Methylene Chloride	0.869	0.695	0.551	0.619	0.543	0.603	0.647	18.9
trans-1,2-Dichloroethene	0.630	0.597	0.511	0.605	0.547	0.612	0.584	7.7
1,1-Dichloroethane	1.288	1.219	1.025	1.202	1.084	1.214	1.172	8.3
Cyclohexane	1.262	1.098	0.863	1.009	0.915	1.024	1.029	13.8
2-Butanone	0.251	0.217	0.186	0.222	0.201	0.211	0.215	10.2
Carbon Tetrachloride	0.525	0.505	0.446	0.527	0.495	0.559	0.510	7.5
cis-1,2-Dichloroethene	0.777	0.766	0.628	0.740	0.669	0.749	0.721	8.2
Bromochloromethane	0.607	0.470	0.502	0.529	0.483	0.504	0.516	9.5
Chloroform	1.318	1.238	1.055	1.225	1.102	1.229	1.195	8.1
1,1,1-Trichloroethane	1.118	1.091	0.915	1.067	0.978	1.112	1.047	7.9
Methylcyclohexane	0.629	0.584	0.512	0.629	0.581	0.658	0.599	8.6
Benzene	1.512	1.474	1.283	1.488	1.361	1.514	1.439	6.6
1,2-Dichloroethane	0.448	0.399	0.368	0.430	0.398	0.436	0.413	7.3
Trichloroethene	0.381	0.340	0.300	0.366	0.333	0.370	0.348	8.7
1,2-Dichloropropane	0.390	0.375	0.322	0.366	0.337	0.371	0.360	7.1
Bromodichloromethane	0.549	0.524	0.456	0.543	0.501	0.560	0.522	7.4
4-Methyl-2-Pentanone	0.281	0.247	0.220	0.269	0.254	0.275	0.258	8.7
Toluene	0.930	0.892	0.800	0.940	0.866	0.960	0.898	6.5

* 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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:18 12:11

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

LAB FILE ID: RRF005 = VY019827.D RRF010 = VY019828.D RRF020 = VY019829.D
RRF050 = VY019830.D RRF100 = VY019831.D RRF150 = VY019832.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.477	0.448	0.408	0.497	0.464	0.524	0.470	8.6
cis-1,3-Dichloropropene	0.577	0.537	0.489	0.579	0.542	0.603	0.554	7.3
1,1,2-Trichloroethane	0.280	0.257	0.230	0.269	0.248	0.271	0.259	6.9
2-Hexanone	0.193	0.173	0.160	0.197	0.185	0.197	0.184	8.1
Dibromochloromethane	0.348	0.317	0.294	0.344	0.328	0.364	0.333	7.5
1,2-Dibromoethane	0.244	0.234	0.207	0.246	0.226	0.248	0.234	6.7
Tetrachloroethene	0.379	0.366	0.316	0.368	0.328	0.377	0.356	7.6
Chlorobenzene	1.226	1.167	1.032	1.171	1.064	1.202	1.144	6.8
Ethyl Benzene	2.177	2.100	1.861	2.164	1.953	2.209	2.077	6.7
m/p-Xylenes	0.802	0.781	0.691	0.796	0.720	0.813	0.767	6.5
o-Xylene	0.750	0.756	0.665	0.769	0.700	0.783	0.737	6.1
Styrene	1.276	1.238	1.120	1.304	1.191	1.333	1.244	6.3
Bromoform	0.208	0.198	0.180	0.220	0.204	0.232	0.207	8.7
Isopropylbenzene	4.420	4.371	3.794	4.268	3.912	4.470	4.206	6.7
1,1,2,2-Tetrachloroethane	0.796	0.737	0.664	0.763	0.719	0.805	0.747	7
1,3-Dichlorobenzene	1.968	1.892	1.598	1.819	1.651	1.887	1.802	8.1
1,4-Dichlorobenzene	1.928	1.831	1.572	1.801	1.635	1.856	1.771	7.8
1,2-Dichlorobenzene	1.716	1.620	1.416	1.612	1.474	1.663	1.584	7.3
1,2-Dibromo-3-Chloropropane	0.133	0.115	0.100	0.121	0.118	0.129	0.119	9.7
1,2,4-Trichlorobenzene	0.860	0.832	0.758	0.965	0.886	1.027	0.888	10.8
1,2,3-Trichlorobenzene	0.716	0.698	0.634	0.823	0.761	0.872	0.751	11.5
1,2-Dichloroethane-d4	0.701	0.656	0.566	0.581	0.583	0.607	0.616	8.5
Dibromofluoromethane	0.356	0.335	0.300	0.321	0.326	0.341	0.330	5.8
Toluene-d8	1.299	1.254	1.134	1.185	1.191	1.246	1.218	4.9
4-Bromofluorobenzene	0.498	0.438	0.402	0.426	0.427	0.450	0.440	7.4

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_N Calibration Date/Time: 10/21/2024 11:38

Lab File ID: VN084428.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.591	0.529		-10.49	20
Chloromethane	0.675	0.602	0.1	-10.81	20
Vinyl Chloride	0.654	0.597		-8.72	20
Bromomethane	0.431	0.370		-14.15	20
Chloroethane	0.468	0.401		-14.32	20
Trichlorofluoromethane	1.019	1.044		2.45	20
1,1,2-Trichlorotrifluoroethane	0.584	0.603		3.25	20
1,1-Dichloroethene	0.563	0.566		0.53	20
Acetone	0.318	0.317		-0.31	20
Carbon Disulfide	1.782	1.424		-20.09	20
Methyl tert-butyl Ether	1.900	2.031		6.89	20
Methyl Acetate	0.694	0.915		31.84	20
Methylene Chloride	0.647	0.671		3.71	20
trans-1,2-Dichloroethene	0.590	0.593		0.51	20
1,1-Dichloroethane	1.131	1.189	0.1	5.13	20
Cyclohexane	1.098	0.959		-12.66	20
2-Butanone	0.434	0.467		7.6	20
Carbon Tetrachloride	0.525	0.569		8.38	20
cis-1,2-Dichloroethene	0.713	0.752		5.47	20
Bromochloromethane	0.505	0.533		5.55	20
Chloroform	1.175	1.280		8.94	20
1,1,1-Trichloroethane	1.055	1.115		5.69	20
Methylcyclohexane	0.533	0.522		-2.06	20
Benzene	1.492	1.635		9.58	20
1,2-Dichloroethane	0.506	0.549		8.5	20
Trichloroethene	0.348	0.375		7.76	20
1,2-Dichloropropane	0.353	0.401		13.6	20
Bromodichloromethane	0.529	0.606		14.56	20
4-Methyl-2-Pentanone	0.468	0.576		23.08	20
Toluene	0.910	1.023		12.42	20
t-1,3-Dichloropropene	0.539	0.601		11.5	20
cis-1,3-Dichloropropene	0.580	0.651		12.24	20
1,1,2-Trichloroethane	0.326	0.397		21.78	20
2-Hexanone	0.349	0.426		22.06	20
Dibromochloromethane	0.385	0.466		21.04	20
1,2-Dibromoethane	0.339	0.388		14.45	20
Tetrachloroethene	0.348	0.366		5.17	20
Chlorobenzene	1.109	1.181	0.3	6.49	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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_N Calibration Date/Time: 10/21/2024 11:38

Lab File ID: VN084428.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.961	2.070		5.56	20
m/p-Xylenes	0.725	0.807		11.31	20
o-Xylene	0.686	0.765		11.52	20
Styrene	1.162	1.354		16.52	20
Bromoform	0.281	0.332	0.1	18.15	20
Isopropylbenzene	3.815	3.797		-0.47	20
1,1,2,2-Tetrachloroethane	1.147	1.198	0.3	4.45	20
1,3-Dichlorobenzene	1.727	1.778		2.95	20
1,4-Dichlorobenzene	1.744	1.755		0.63	20
1,2-Dichlorobenzene	1.693	1.727		2.01	20
1,2-Dibromo-3-Chloropropane	0.237	0.235		-0.84	20
1,2,4-Trichlorobenzene	0.834	0.857		2.76	20
1,2,3-Trichlorobenzene	0.835	0.868		3.95	20
1,2-Dichloroethane-d4	0.741	0.791		6.75	20
Dibromofluoromethane	0.330	0.387		17.27	20
Toluene-d8	1.213	1.431		17.97	20
4-Bromofluorobenzene	0.442	0.522		18.1	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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/22/2024 10:01

Lab File ID: VY019969.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.412		-11.4	20
Chloromethane	0.606	0.611	0.1	0.82	20
Vinyl Chloride	0.667	0.698		4.65	20
Bromomethane	0.422	0.448		6.16	20
Chloroethane	0.448	0.490		9.38	20
Trichlorofluoromethane	0.992	0.995		0.3	20
1,1,2-Trichlorotrifluoroethane	0.577	0.592		2.6	20
1,1-Dichloroethene	0.536	0.519		-3.17	20
Acetone	0.160	0.189		18.13	20
Carbon Disulfide	1.438	1.228		-14.6	20
Methyl tert-butyl Ether	1.541	1.675		8.7	20
Methyl Acetate	0.345	0.403		16.81	20
Methylene Chloride	0.647	0.636		-1.7	20
trans-1,2-Dichloroethene	0.584	0.602		3.08	20
1,1-Dichloroethane	1.172	1.328	0.1	13.31	20
Cyclohexane	1.029	0.985		-4.28	20
2-Butanone	0.215	0.241		12.09	20
Carbon Tetrachloride	0.510	0.544		6.67	20
cis-1,2-Dichloroethene	0.721	0.769		6.66	20
Bromochloromethane	0.516	0.570		10.47	20
Chloroform	1.195	1.359		13.72	20
1,1,1-Trichloroethane	1.047	1.132		8.12	20
Methylcyclohexane	0.599	0.592		-1.17	20
Benzene	1.439	1.559		8.34	20
1,2-Dichloroethane	0.413	0.460		11.38	20
Trichloroethene	0.348	0.357		2.59	20
1,2-Dichloropropane	0.360	0.412		14.44	20
Bromodichloromethane	0.522	0.599		14.75	20
4-Methyl-2-Pentanone	0.258	0.298		15.5	20
Toluene	0.898	0.990		10.24	20
t-1,3-Dichloropropene	0.470	0.521		10.85	20
cis-1,3-Dichloropropene	0.554	0.612		10.47	20
1,1,2-Trichloroethane	0.259	0.294		13.51	20
2-Hexanone	0.184	0.216		17.39	20
Dibromochloromethane	0.333	0.370		11.11	20
1,2-Dibromoethane	0.234	0.254		8.55	20
Tetrachloroethene	0.356	0.348		-2.25	20
Chlorobenzene	1.144	1.235	0.3	7.95	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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/22/2024 10:01

Lab File ID: VY019969.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.295		10.5	20
m/p-Xylenes	0.767	0.833		8.6	20
o-Xylene	0.737	0.816		10.72	20
Styrene	1.244	1.389		11.66	20
Bromoform	0.207	0.229	0.1	10.63	20
Isopropylbenzene	4.206	4.428		5.28	20
1,1,2,2-Tetrachloroethane	0.747	0.811	0.3	8.57	20
1,3-Dichlorobenzene	1.802	1.882		4.44	20
1,4-Dichlorobenzene	1.771	1.856		4.8	20
1,2-Dichlorobenzene	1.584	1.660		4.8	20
1,2-Dibromo-3-Chloropropane	0.119	0.123		3.36	20
1,2,4-Trichlorobenzene	0.888	0.895		0.79	20
1,2,3-Trichlorobenzene	0.751	0.751		0	20
1,2-Dichloroethane-d4	0.616	0.655		6.33	20
Dibromofluoromethane	0.330	0.352		6.67	20
Toluene-d8	1.218	1.252		2.79	20
4-Bromofluorobenzene	0.440	0.466		5.91	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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/23/2024 10:58

Lab File ID: VY019985.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.465	0.411		-11.61	20
Chloromethane	0.606	0.604	0.1	-0.33	20
Vinyl Chloride	0.667	0.694		4.05	20
Bromomethane	0.422	0.448		6.16	20
Chloroethane	0.448	0.492		9.82	20
Trichlorofluoromethane	0.992	1.072		8.06	20
1,1,2-Trichlorotrifluoroethane	0.577	0.622		7.8	20
1,1-Dichloroethene	0.536	0.538		0.37	20
Acetone	0.160	0.176		10	20
Carbon Disulfide	1.438	1.233		-14.26	20
Methyl tert-butyl Ether	1.541	1.661		7.79	20
Methyl Acetate	0.345	0.377		9.27	20
Methylene Chloride	0.647	0.640		-1.08	20
trans-1,2-Dichloroethene	0.584	0.603		3.25	20
1,1-Dichloroethane	1.172	1.359	0.1	15.96	20
Cyclohexane	1.029	1.019		-0.97	20
2-Butanone	0.215	0.227		5.58	20
Carbon Tetrachloride	0.510	0.557		9.22	20
cis-1,2-Dichloroethene	0.721	0.807		11.93	20
Bromochloromethane	0.516	0.604		17.05	20
Chloroform	1.195	1.409		17.91	20
1,1,1-Trichloroethane	1.047	1.201		14.71	20
Methylcyclohexane	0.599	0.618		3.17	20
Benzene	1.439	1.569		9.03	20
1,2-Dichloroethane	0.413	0.455		10.17	20
Trichloroethene	0.348	0.364		4.6	20
1,2-Dichloropropane	0.360	0.404		12.22	20
Bromodichloromethane	0.522	0.598		14.56	20
4-Methyl-2-Pentanone	0.258	0.275		6.59	20
Toluene	0.898	0.993		10.58	20
t-1,3-Dichloropropene	0.470	0.510		8.51	20
cis-1,3-Dichloropropene	0.554	0.608		9.75	20
1,1,2-Trichloroethane	0.259	0.272		5.02	20
2-Hexanone	0.184	0.198		7.61	20
Dibromochloromethane	0.333	0.364		9.31	20
1,2-Dibromoethane	0.234	0.242		3.42	20
Tetrachloroethene	0.356	0.354		-0.56	20
Chlorobenzene	1.144	1.251	0.3	9.35	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.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: MSVOA_Y Calibration Date/Time: 10/23/2024 10:58

Lab File ID: VY019985.D Init. Calib. Date(s): 10/09/2024 10/09/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:18 12:11

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	2.077	2.355		13.39	20
m/p-Xylenes	0.767	0.864		12.65	20
o-Xylene	0.737	0.825		11.94	20
Styrene	1.244	1.413		13.59	20
Bromoform	0.207	0.221	0.1	6.76	20
Isopropylbenzene	4.206	4.708		11.94	20
1,1,2,2-Tetrachloroethane	0.747	0.789	0.3	5.62	20
1,3-Dichlorobenzene	1.802	1.923		6.72	20
1,4-Dichlorobenzene	1.771	1.886		6.49	20
1,2-Dichlorobenzene	1.584	1.705		7.64	20
1,2-Dibromo-3-Chloropropane	0.119	0.119		0	20
1,2,4-Trichlorobenzene	0.888	0.935		5.29	20
1,2,3-Trichlorobenzene	0.751	0.768		2.26	20
1,2-Dichloroethane-d4	0.616	0.728		18.18	20
Dibromofluoromethane	0.330	0.395		19.7	20
Toluene-d8	1.218	1.417		16.34	20
4-Bromofluorobenzene	0.440	0.515		17.05	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\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Time: Oct 23 01:30:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

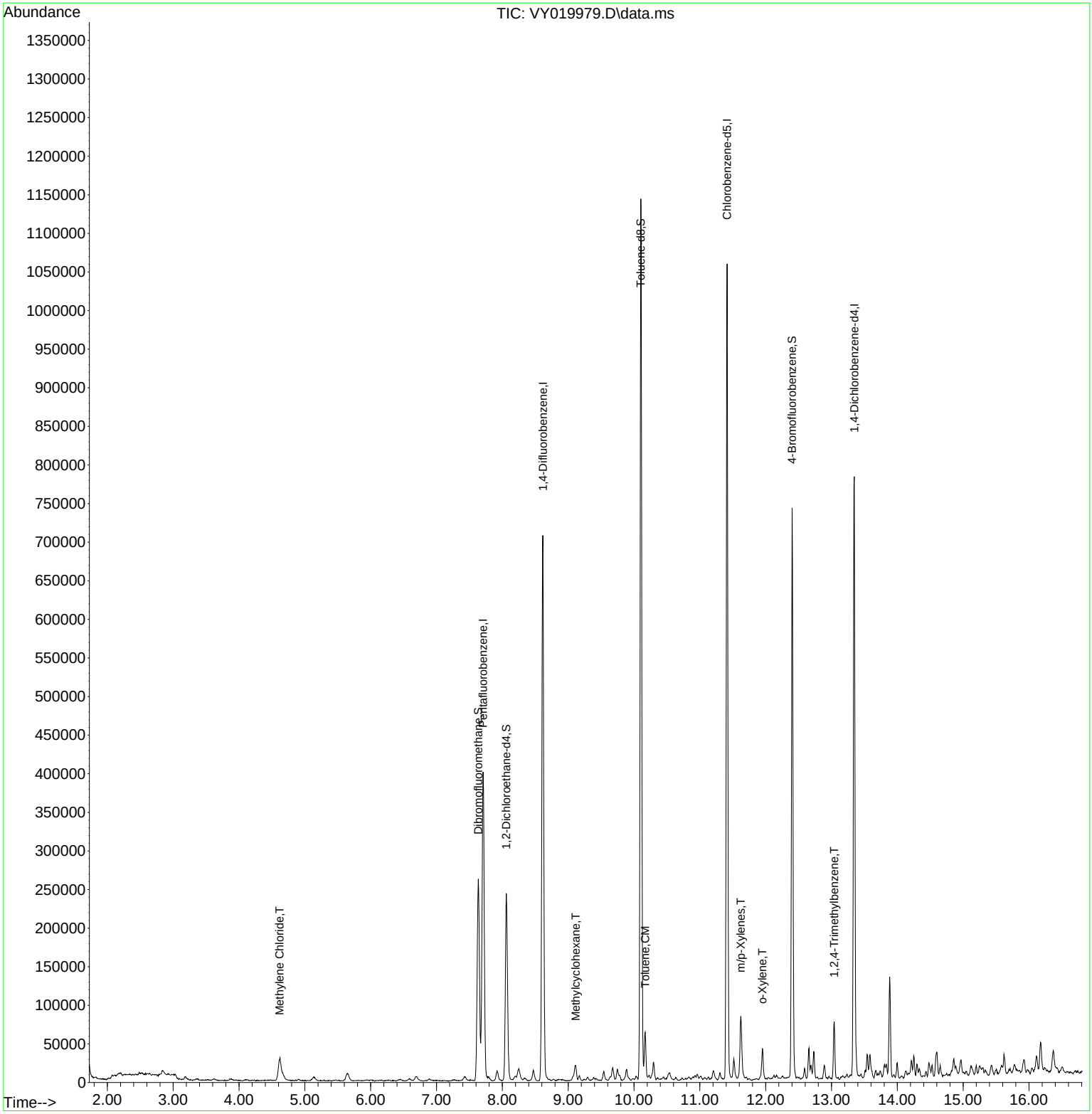
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	272409	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	558411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	507425	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	178248	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	187390	55.868	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.740%			
35) Dibromofluoromethane	7.634	113	183888	49.903	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.800%			
50) Toluene-d8	10.103	98	695045	51.077	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.160%			
62) 4-Bromofluorobenzene	12.402	95	214219	43.568	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 87.140%			
Target Compounds						Qvalue
20) Methylene Chloride	4.616	84	18410	4.980	ug/l #	81
39) Methylcyclohexane	9.116	83	6955	1.040	ug/l	90
52) Toluene	10.170	92	24355	2.429	ug/l	97
68) m/p-Xylenes	11.621	106	20990	2.696	ug/l	92
69) o-Xylene	11.950	106	8735	1.168	ug/l	78
84) 1,2,4-Trimethylbenzene	13.042	105	38093	3.173	ug/l	96

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

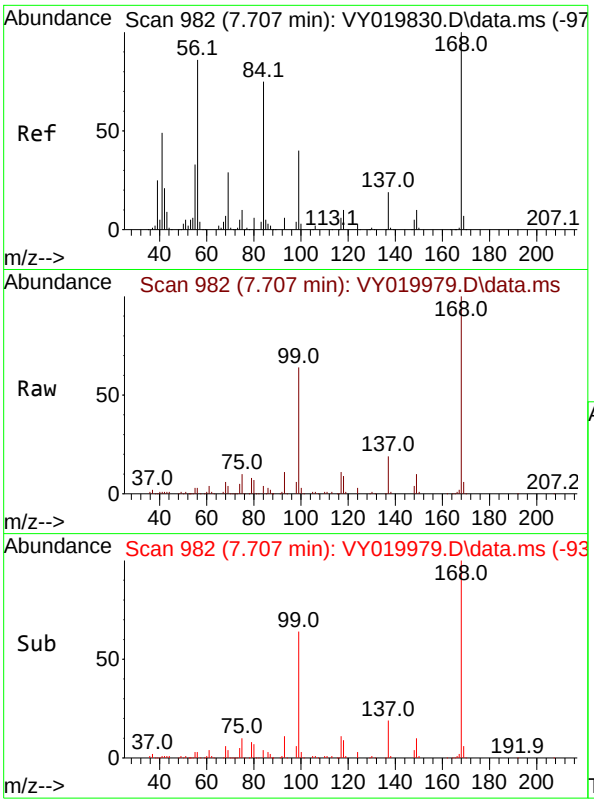
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Time: Oct 23 01:30:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



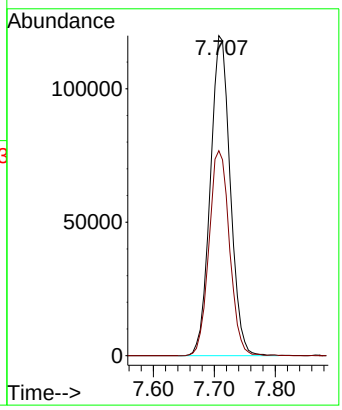
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

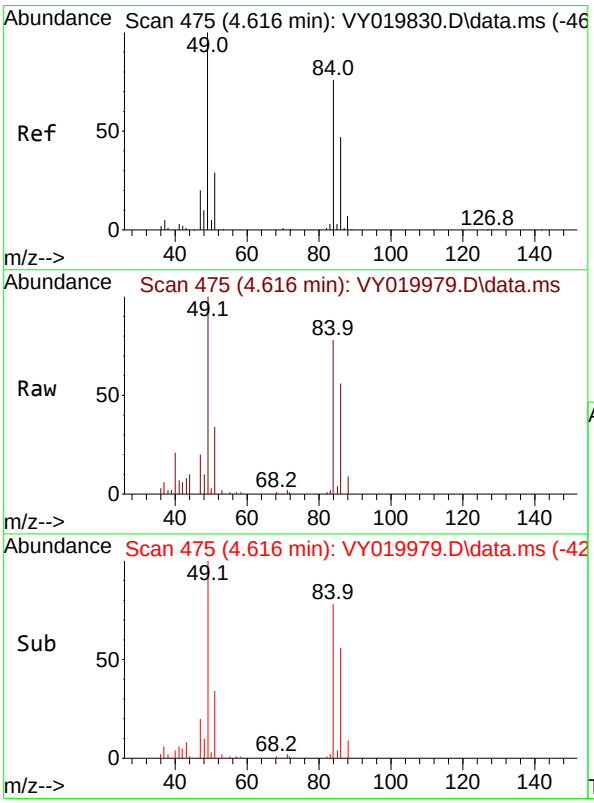


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:168 Resp: 272409

Ion	Ratio	Lower	Upper
168	100		
99	64.1	39.1	58.7#

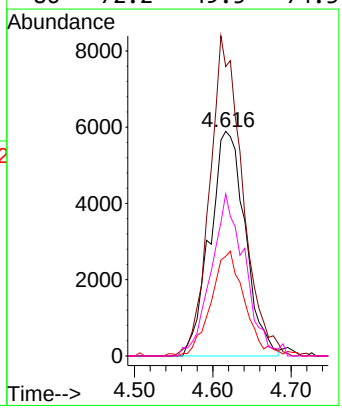


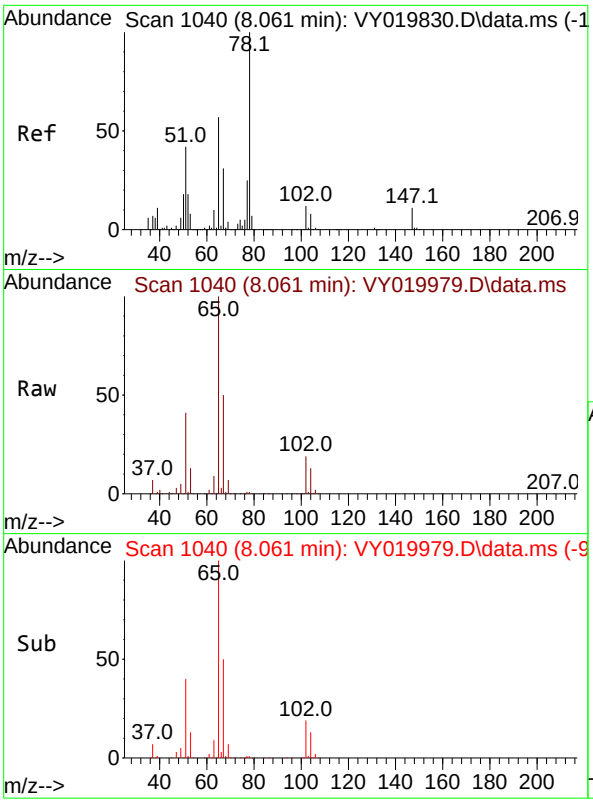


#20
Methylene Chloride
Concen: 4.980 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion: 84 Resp: 18410

Ion	Ratio	Lower	Upper
84	100		
49	127.7	84.4	126.6#
51	44.4	26.0	39.0#
86	72.2	49.5	74.3



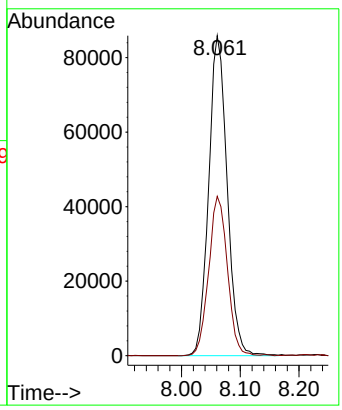


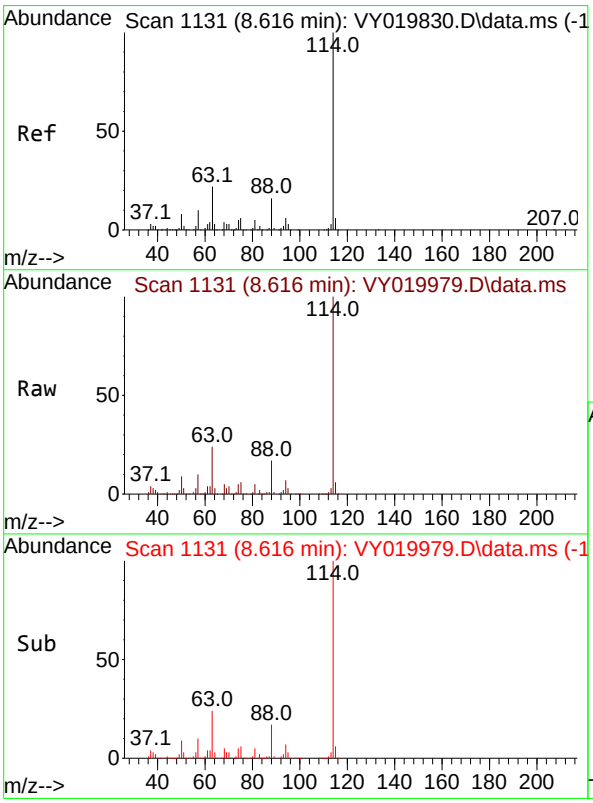
#33
1,2-Dichloroethane-d4
Concen: 55.868 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Tgt Ion: 65 Resp: 187390

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	109.6

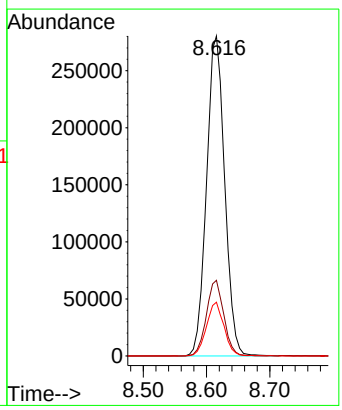




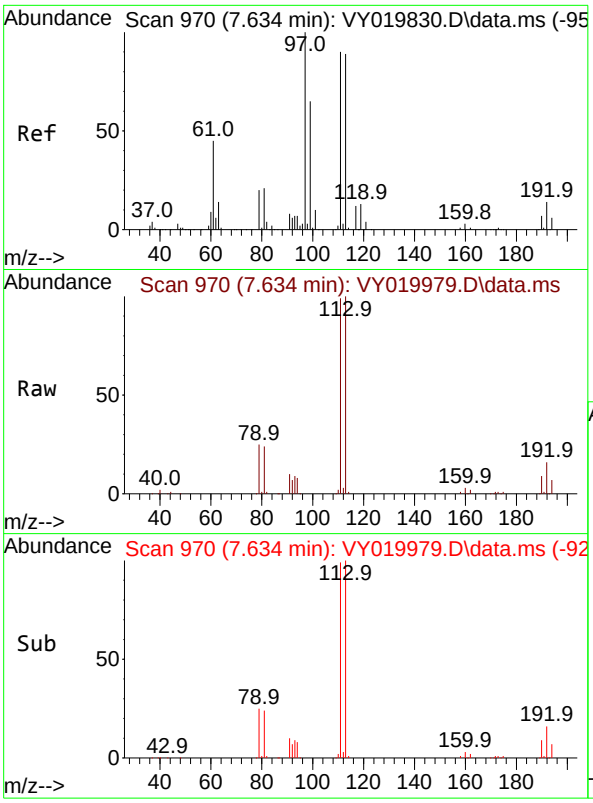
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:114 Resp: 558411

Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	35.0
88	16.8	0.0	27.2



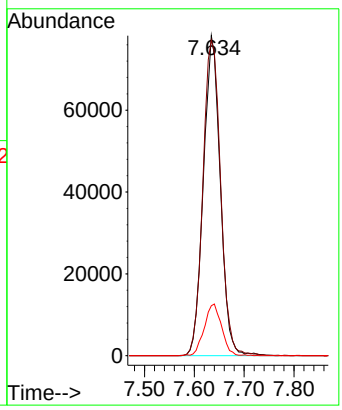
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

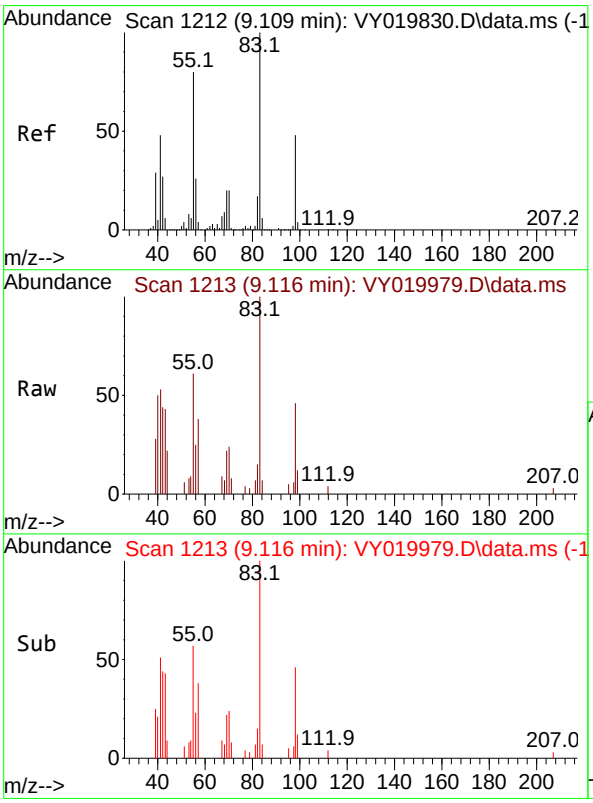


#35
Dibromofluoromethane
Concen: 49.903 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:113 Resp: 183888

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	16.7	15.9	23.9

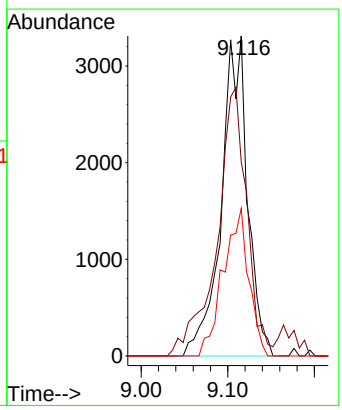


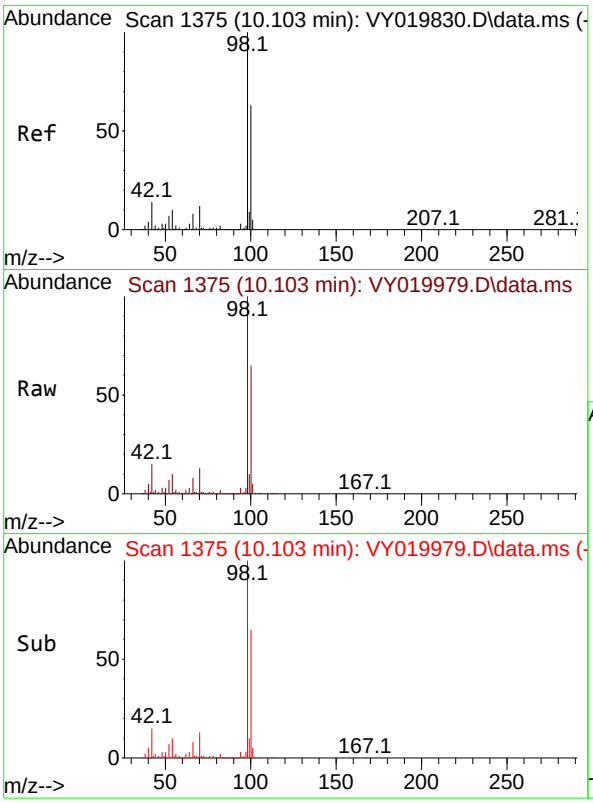


#39
Methylcyclohexane
Concen: 1.040 ug/l
RT: 9.116 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion: 83 Resp: 6955

Ion	Ratio	Lower	Upper
83	100		
55	55.1	51.5	77.3
98	46.1	40.5	60.7



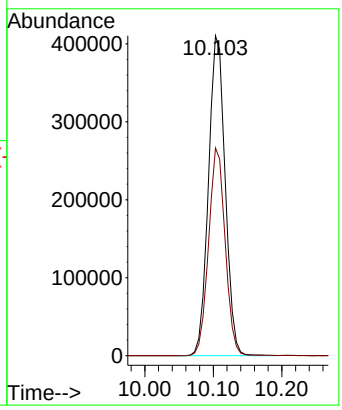


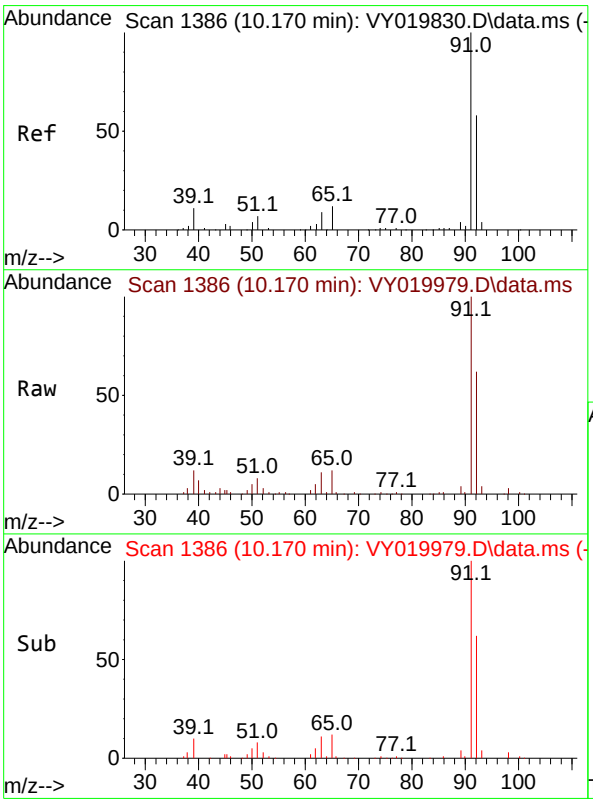
#50
Toluene-d8
Concen: 51.077 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Tgt Ion: 98 Resp: 695045

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.0	78.0

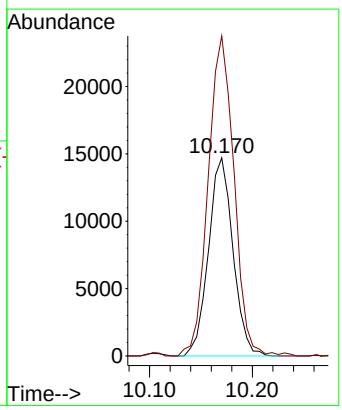


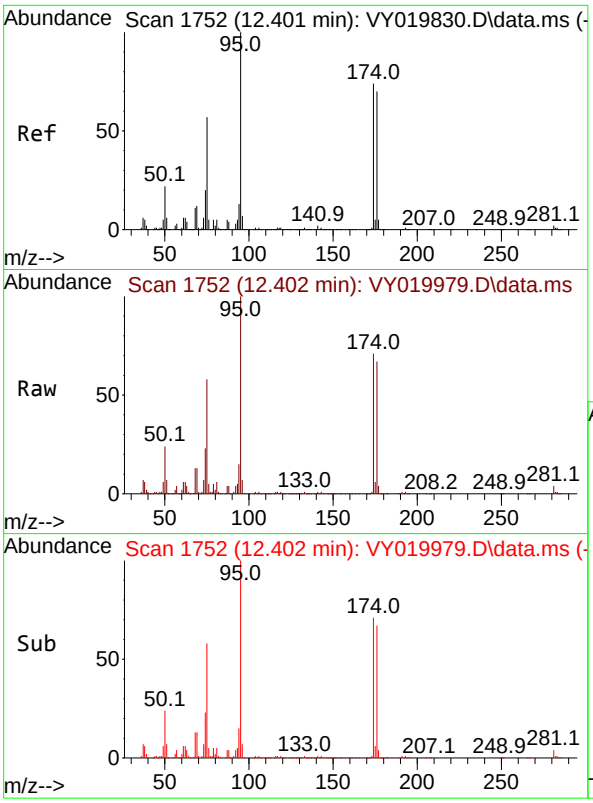


#52
Toluene
Concen: 2.429 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion: 92 Resp: 24355

Ion	Ratio	Lower	Upper
92	100		
91	170.1	139.0	208.6



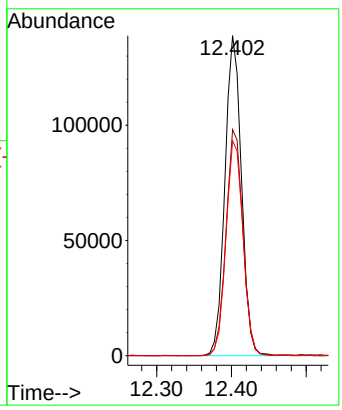


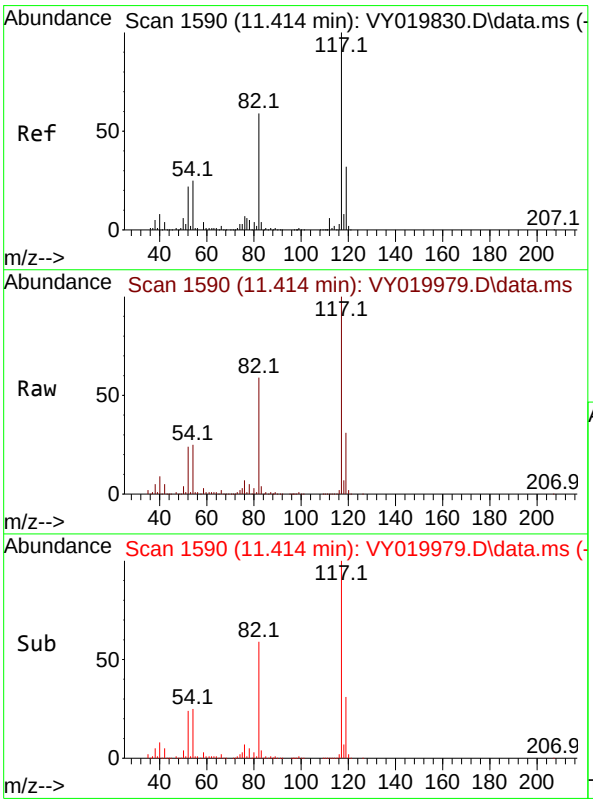
#62
4-Bromofluorobenzene
Concen: 43.568 ug/l
RT: 12.402 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Tgt Ion: 95 Resp: 214219

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	175.6
176	69.2	0.0	171.4

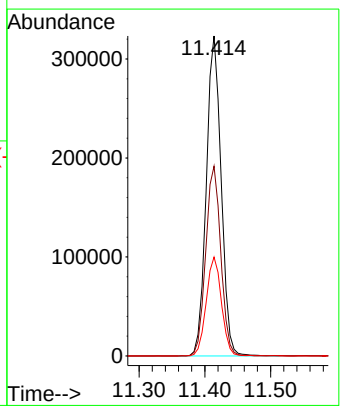


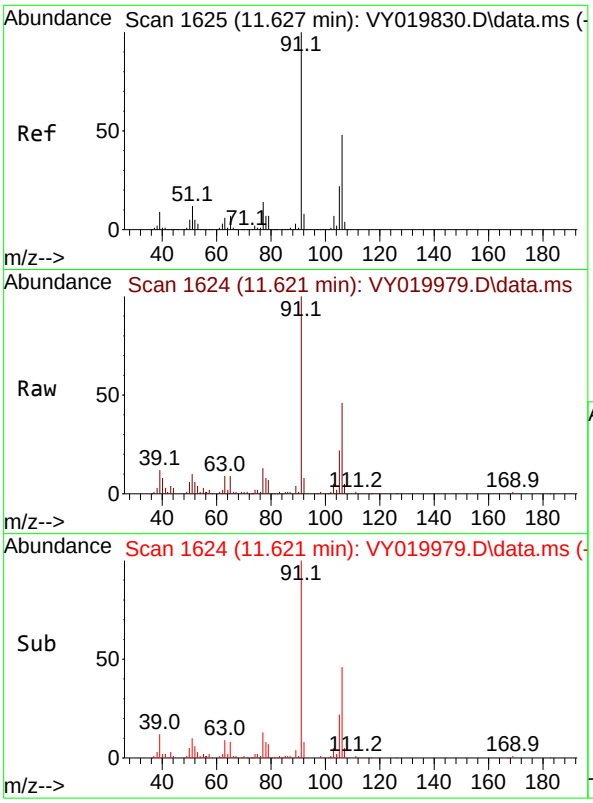


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:117 Resp: 507425

Ion	Ratio	Lower	Upper
117	100		
82	59.3	42.4	63.6
119	30.9	25.9	38.9



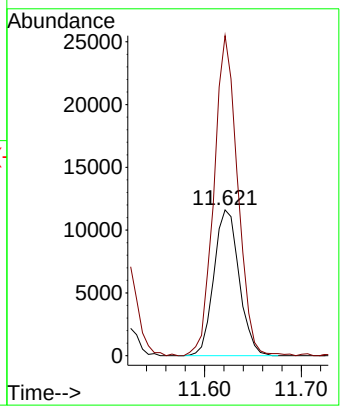


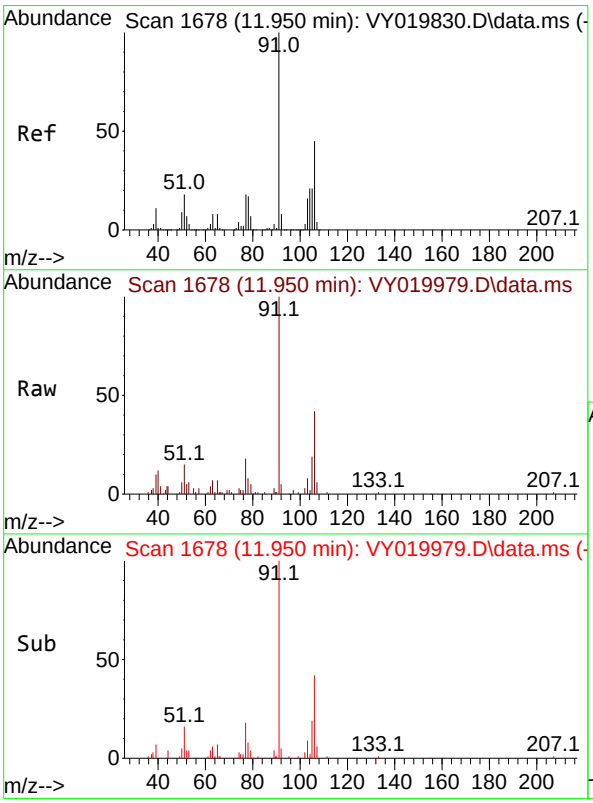
#68
m/p-Xylenes
Concen: 2.696 ug/l
RT: 11.621 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Tgt Ion:106 Resp: 20990

Ion	Ratio	Lower	Upper
106	100		
91	206.6	156.0	234.0

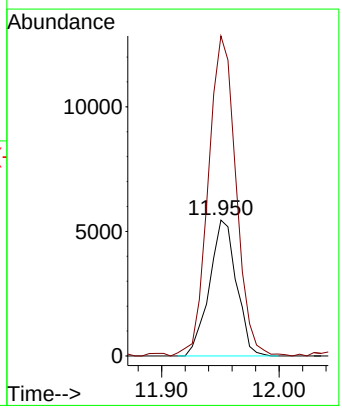


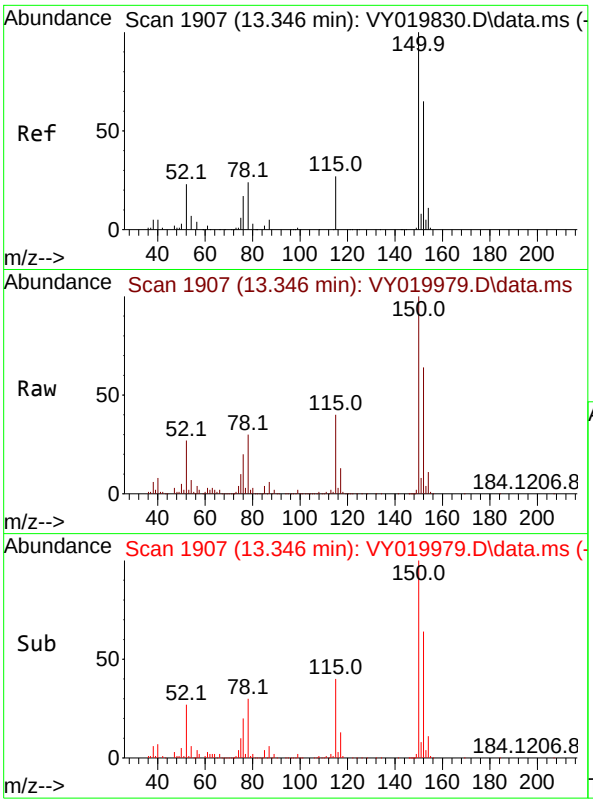


#69
o-Xylene
Concen: 1.168 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:106 Resp: 8735

Ion	Ratio	Lower	Upper
106	100		
91	240.9	103.6	310.8



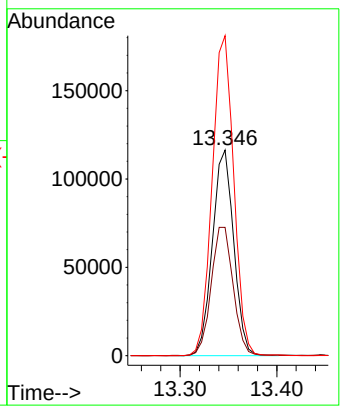


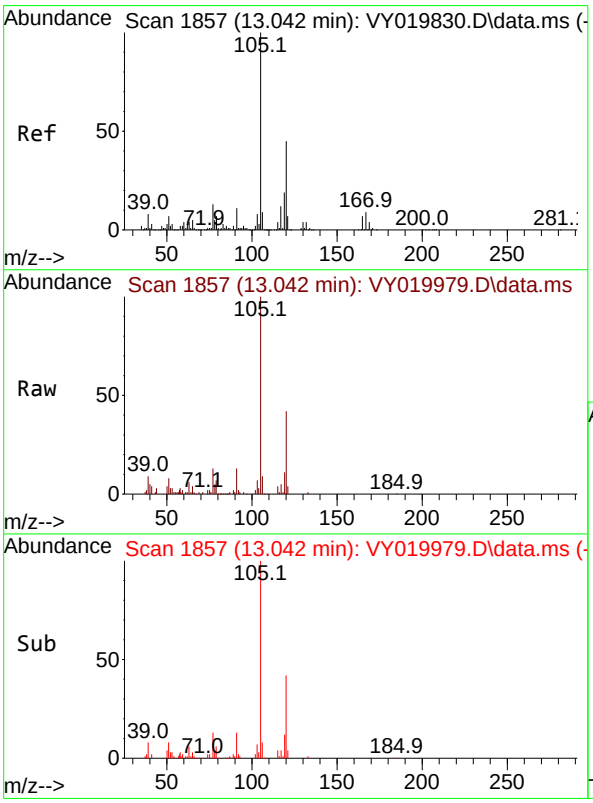
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Tgt Ion:152 Resp: 178248

Ion	Ratio	Lower	Upper
152	100		
115	64.4	28.2	84.7
150	157.0	0.0	345.6

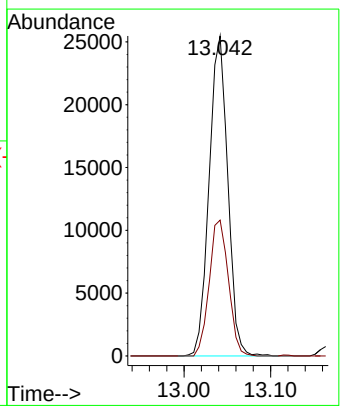




#84
1,2,4-Trimethylbenzene
Concen: 3.173 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019979.D
Acq: 22 Oct 2024 14:23

Tgt Ion:105 Resp: 38093

Ion	Ratio	Lower	Upper
105	100		
120	43.6	23.2	69.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-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\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY019979.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.622	465	476	493	rBV4	29438	107272	5.55%	0.901%
2	5.647	633	644	654	rBV4	9763	33232	1.72%	0.279%
3	7.634	961	970	976	rBV	261208	633992	32.80%	5.325%
4	7.707	976	982	993	rVV	399931	933405	48.29%	7.840%
5	7.921	1010	1017	1023	rBV5	12321	27941	1.45%	0.235%
6	8.061	1029	1040	1054	rBV	242901	551329	28.52%	4.631%
7	8.250	1065	1071	1081	rVB2	14687	39451	2.04%	0.331%
8	8.469	1100	1107	1118	rVB4	14039	31009	1.60%	0.260%
9	8.616	1122	1131	1147	rBV	706335	1408945	72.90%	11.834%
10	9.109	1201	1212	1218	rBV5	19591	51579	2.67%	0.433%
11	9.542	1276	1283	1293	rBV4	12020	25774	1.33%	0.216%
12	9.676	1300	1305	1310	rVB3	14895	28472	1.47%	0.239%
13	9.743	1312	1316	1321	rBV2	12415	22404	1.16%	0.188%
14	9.890	1328	1340	1350	rBV4	14390	35784	1.85%	0.301%
15	10.103	1368	1375	1382	rBV	1140564	1932795	100.00%	16.234%
16	10.170	1382	1386	1392	rVB	58304	98670	5.11%	0.829%
17	10.298	1399	1407	1413	rVB3	22729	47371	2.45%	0.398%
18	10.536	1439	1446	1454	rVB10	8552	22846	1.18%	0.192%
19	11.207	1552	1556	1566	rVB6	11993	27646	1.43%	0.232%
20	11.414	1583	1590	1600	rBV	1055691	1690994	87.49%	14.203%
21	11.518	1602	1607	1615	rVV	25214	44359	2.30%	0.373%
22	11.621	1616	1624	1635	rVV	80120	163284	8.45%	1.371%
23	11.950	1669	1678	1687	rBV	40535	77218	4.00%	0.649%
24	12.402	1744	1752	1762	rVB	738722	1193793	61.77%	10.027%
25	12.591	1774	1783	1788	rBV	13863	23863	1.23%	0.200%
26	12.658	1788	1794	1797	rVV	39330	63361	3.28%	0.532%
27	12.688	1797	1799	1802	rVV2	16786	22756	1.18%	0.191%
28	12.731	1802	1806	1811	rVB2	34568	52966	2.74%	0.445%
29	12.889	1827	1832	1838	rBV	17108	28746	1.49%	0.241%
30	13.042	1851	1857	1865	rBV	74629	117743	6.09%	0.989%
31	13.346	1900	1907	1916	rBV	775761	1248938	64.62%	10.490%
32	13.542	1935	1939	1942	rVV2	30148	49059	2.54%	0.412%
33	13.584	1942	1946	1956	rVB3	29999	63545	3.29%	0.534%
34	13.804	1976	1982	1985	rVV2	16455	31425	1.63%	0.264%
35	13.834	1985	1987	1990	rVV2	16799	21614	1.12%	0.182%
36	13.883	1990	1995	2002	rVB3	129770	210189	10.87%	1.765%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-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\82Y100924S.M
Title : SW846 8260

37	13.999	2009	2014	2020	rVB2	20274	31138	1.61%	0.262%
38	14.133	2029	2036	2039	rBV6	9599	21217	1.10%	0.178%
39	14.212	2045	2049	2052	rBV	15603	22297	1.15%	0.187%
40	14.249	2052	2055	2060	rVB	25325	34805	1.80%	0.292%
41	14.298	2060	2063	2066	rBV4	14734	20198	1.05%	0.170%
42	14.480	2089	2093	2098	rBV3	17901	34999	1.81%	0.294%
43	14.529	2098	2101	2106	rVV2	14955	20094	1.04%	0.169%
44	14.596	2106	2112	2117	rVV4	31795	71147	3.68%	0.598%
45	14.651	2117	2121	2127	rVB2	14881	24656	1.28%	0.207%
46	14.858	2150	2155	2158	rBV4	16226	26002	1.35%	0.218%
47	14.968	2167	2173	2177	rBV6	16634	29923	1.55%	0.251%
48	15.127	2192	2199	2206	rBV10	12078	31811	1.65%	0.267%
49	15.431	2242	2249	2255	rBV5	12999	30326	1.57%	0.255%
50	15.584	2268	2274	2276	rVV6	11106	22111	1.14%	0.186%
51	15.620	2277	2280	2286	rVB3	24835	39604	2.05%	0.333%
52	15.779	2300	2306	2312	rBV9	10907	26604	1.38%	0.223%
53	15.925	2324	2330	2335	rVB8	16447	35787	1.85%	0.301%
54	16.114	2354	2361	2366	rVV6	20964	45798	2.37%	0.385%
55	16.175	2366	2371	2379	rVB	36053	72615	3.76%	0.610%
56	16.370	2397	2403	2416	rVB4	28498	80522	4.17%	0.676%
57	16.504	2418	2425	2434	rVB4	7626	20448	1.06%	0.172%

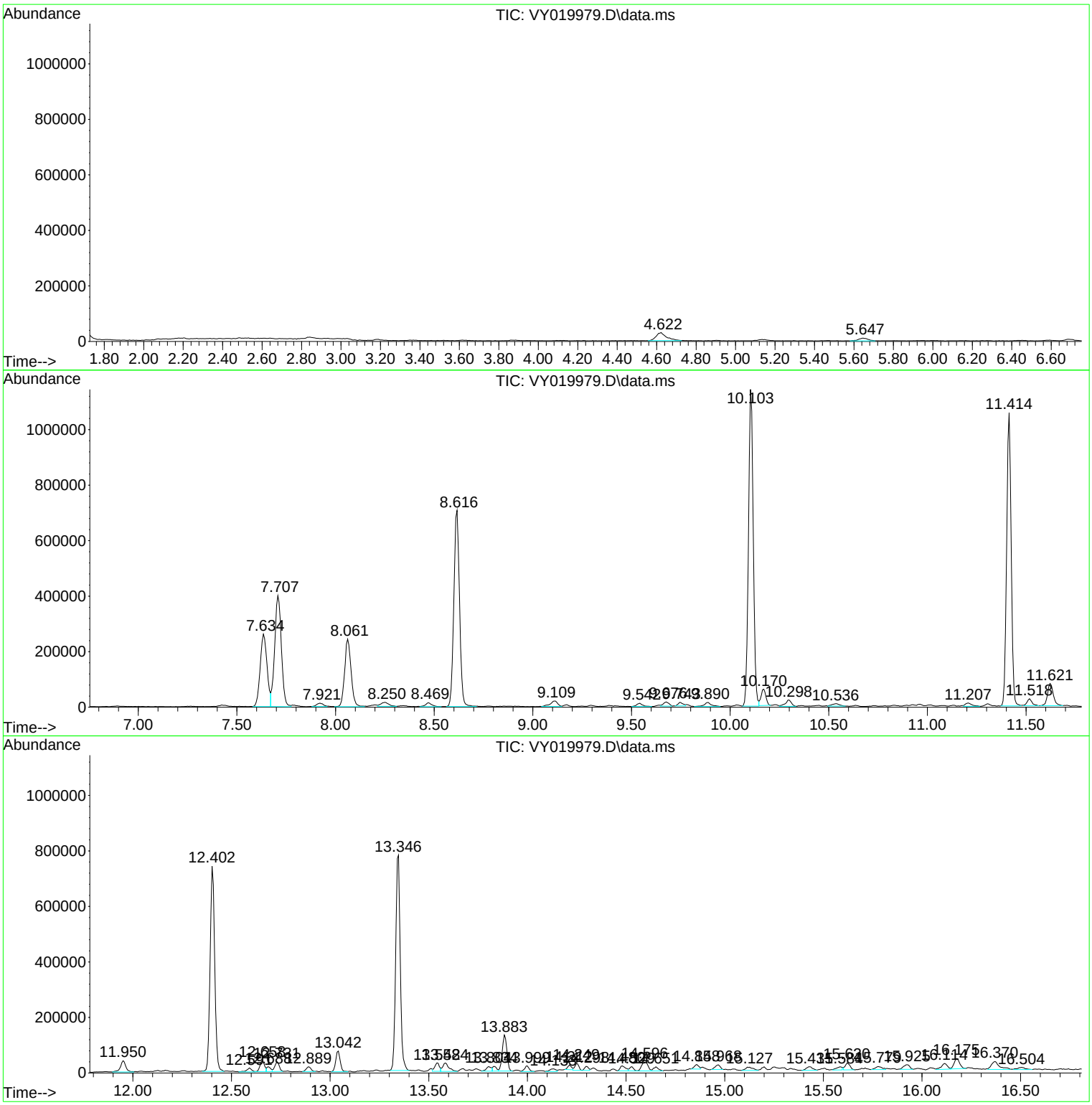
Sum of corrected areas: 11905872

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VY102224\
Data File : VY019979.D
Acq On : 22 Oct 2024 14:23
Operator : SY/MD
Sample : P4471-01
Misc : 8.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Time: Oct 23 23:08:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

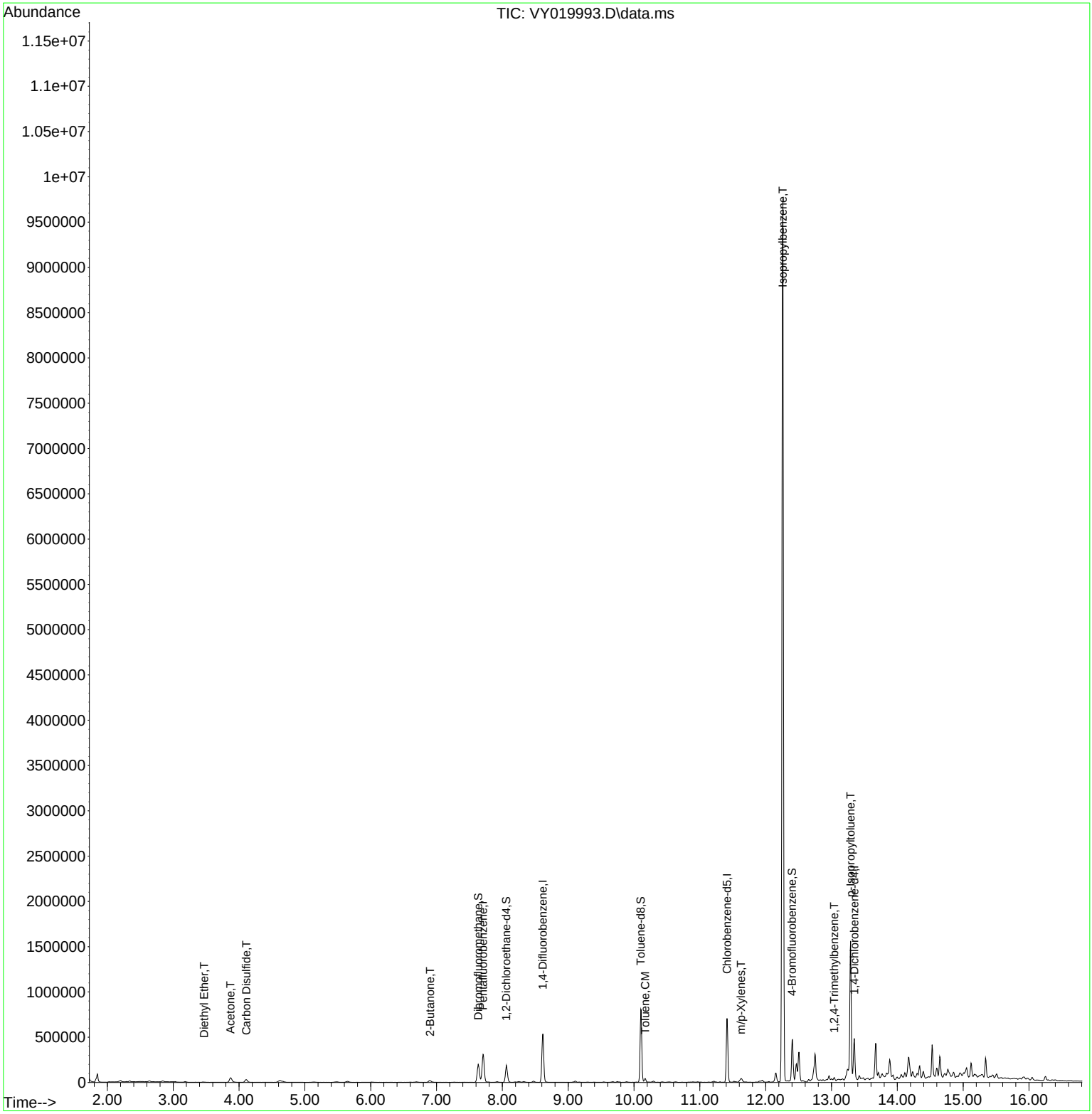
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	211103	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	422929	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	336247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	95105	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	137413	52.865	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.740%			
35) Dibromofluoromethane	7.634	113	136178	48.794	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.580%			
50) Toluene-d8	10.103	98	510827	49.565	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.120%			
62) 4-Bromofluorobenzene	12.401	95	129366	34.739	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 69.480%			
Target Compounds						Qvalue
8) Diethyl Ether	3.470	74	1436	1.128	ug/l	61
16) Acetone	3.872	43	91027	134.528	ug/l #	86
17) Carbon Disulfide	4.110	76	58543	9.644	ug/l	98
25) 2-Butanone	6.902	43	34019	37.561	ug/l #	83
52) Toluene	10.170	92	16003	2.107	ug/l	94
68) m/p-Xylenes	11.627	106	8079	1.566	ug/l	79
73) Isopropylbenzene	12.261	105	346599	43.327	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.041	105	15636	2.441	ug/l	92
86) p-Isopropyltoluene	13.291	119	759982	108.235	ug/l	94

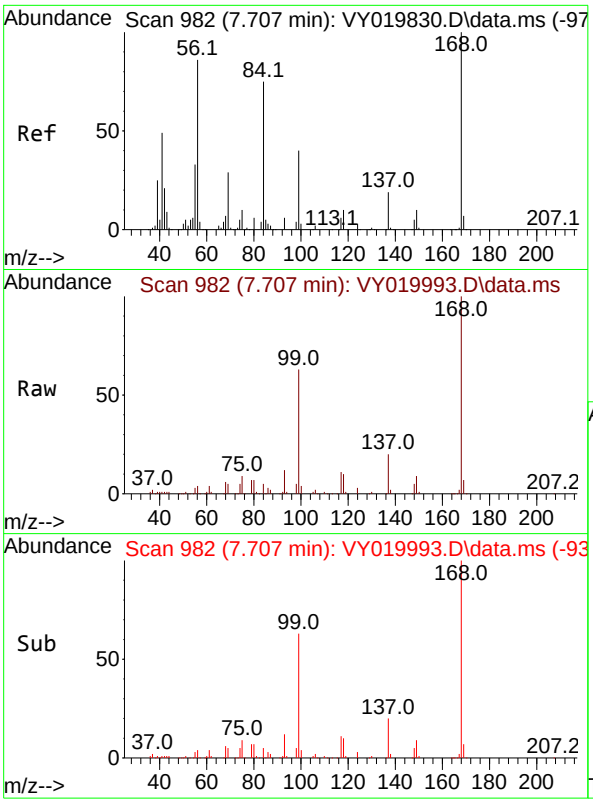
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Time: Oct 23 23:08:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



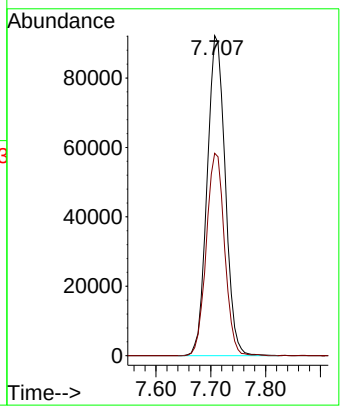


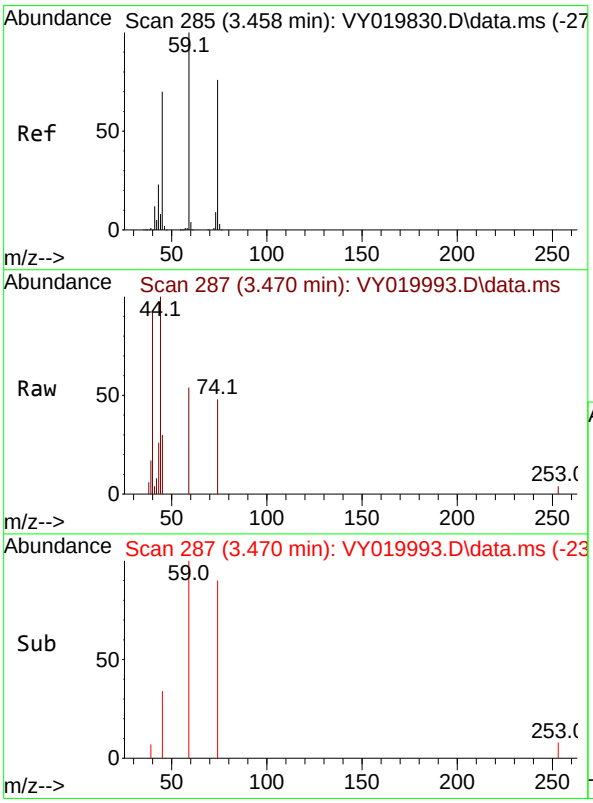
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion:168 Resp: 211103

Ion	Ratio	Lower	Upper
168	100		
99	63.3	39.1	58.7#

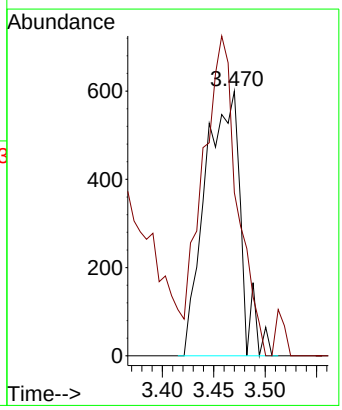


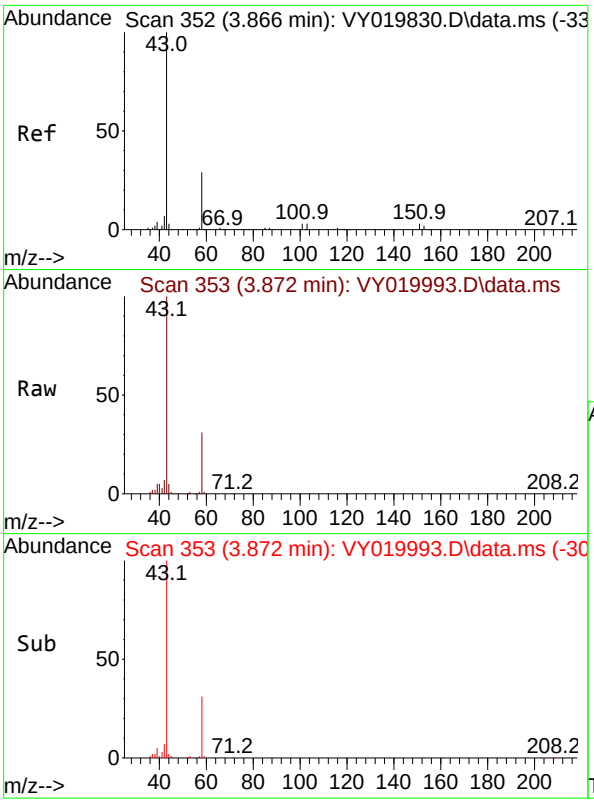


#8
Diethyl Ether
Concen: 1.128 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.012 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion: 74 Resp: 1436

Ion	Ratio	Lower	Upper
74	100		
45	118.1	41.3	124.1



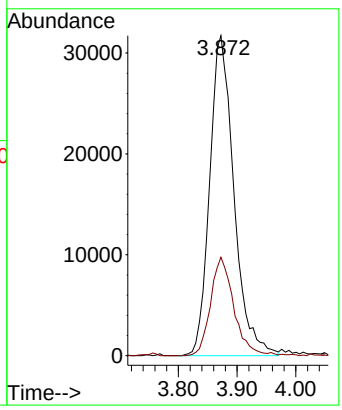


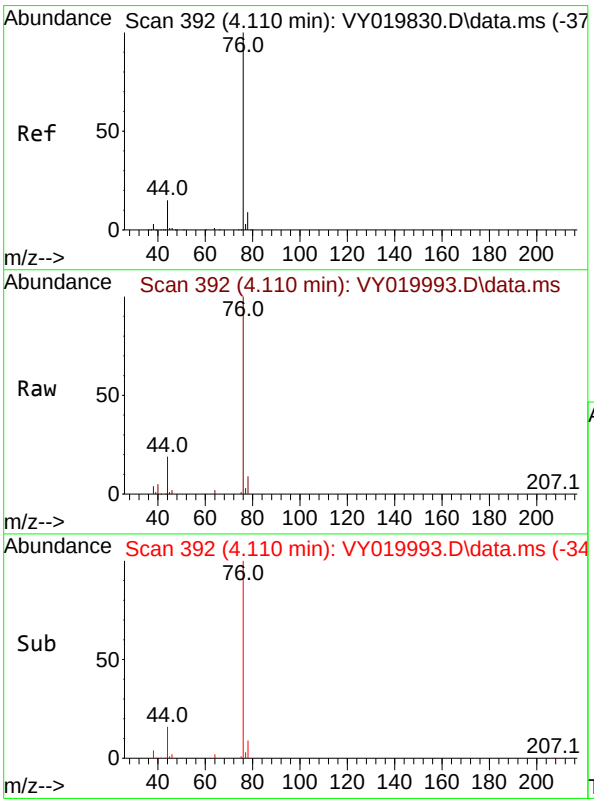
#16
Acetone
Concen: 134.528 ug/l
RT: 3.872 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion: 43 Resp: 91027

Ion	Ratio	Lower	Upper
43	100		
58	30.8	31.7	47.5#

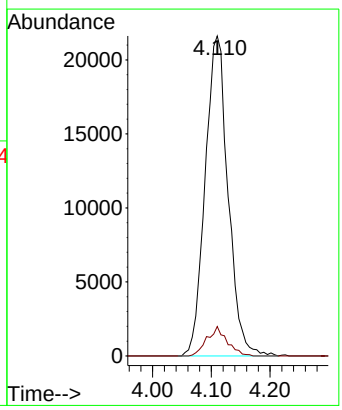


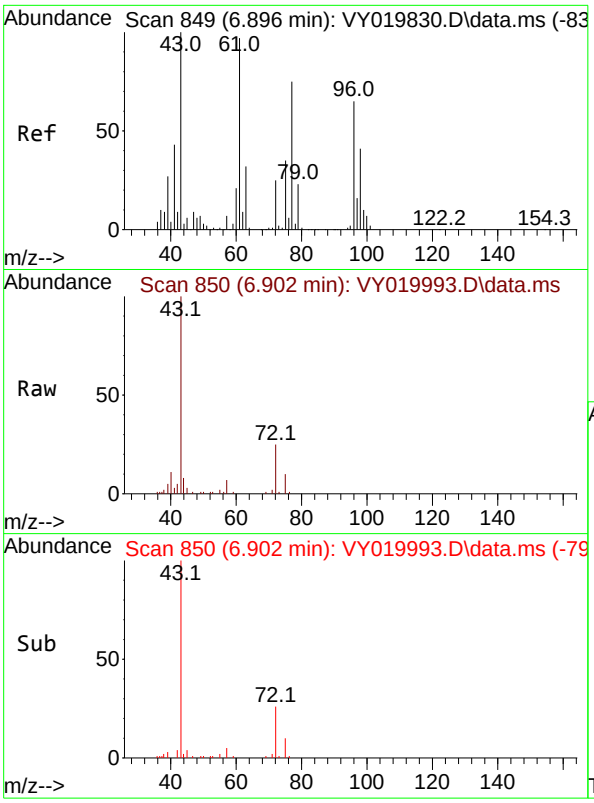


#17
Carbon Disulfide
Concen: 9.644 ug/l
RT: 4.110 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion: 76 Resp: 58543

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2



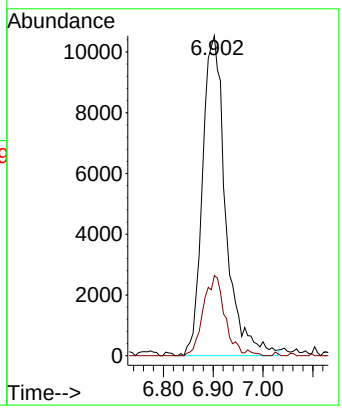


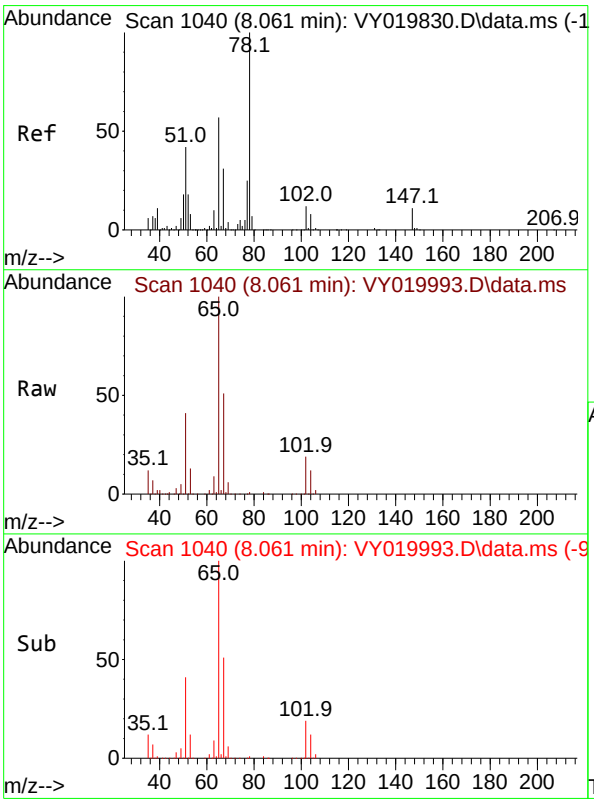
#25
2-Butanone
Concen: 37.561 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion: 43 Resp: 34019

Ion	Ratio	Lower	Upper
43	100		
72	24.5	27.3	40.9#

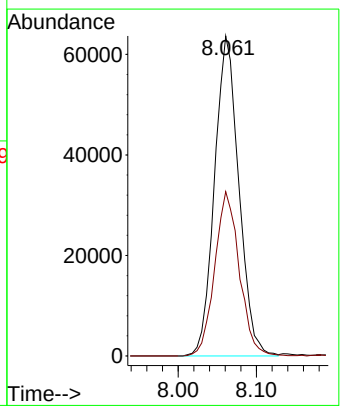


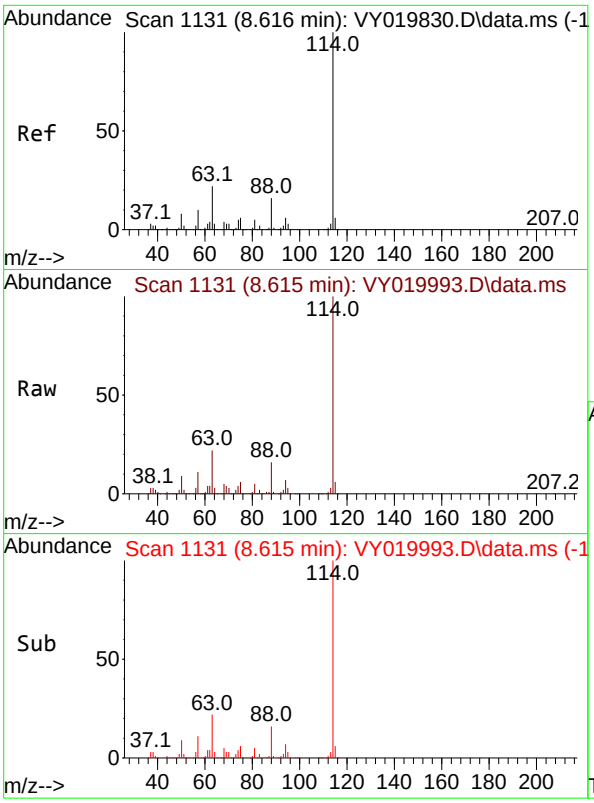


#33
1,2-Dichloroethane-d4
Concen: 52.865 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion: 65 Resp: 137413

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	109.6



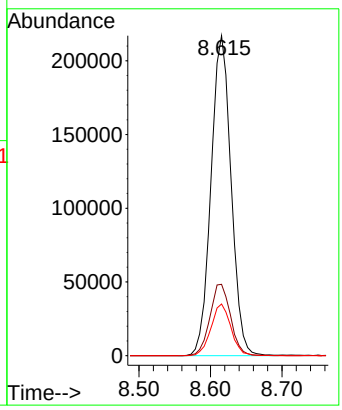


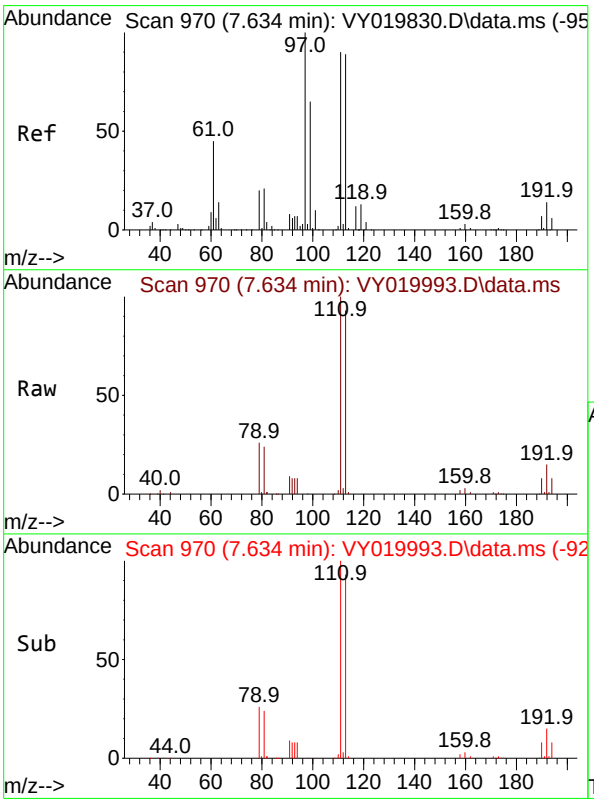
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion:114 Resp: 422929

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	35.0
88	16.2	0.0	27.2

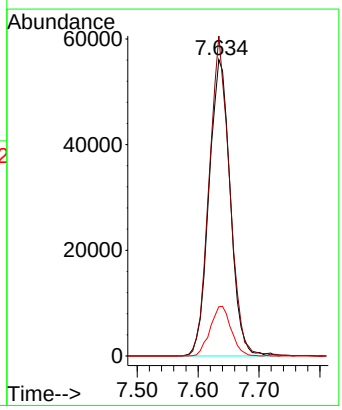


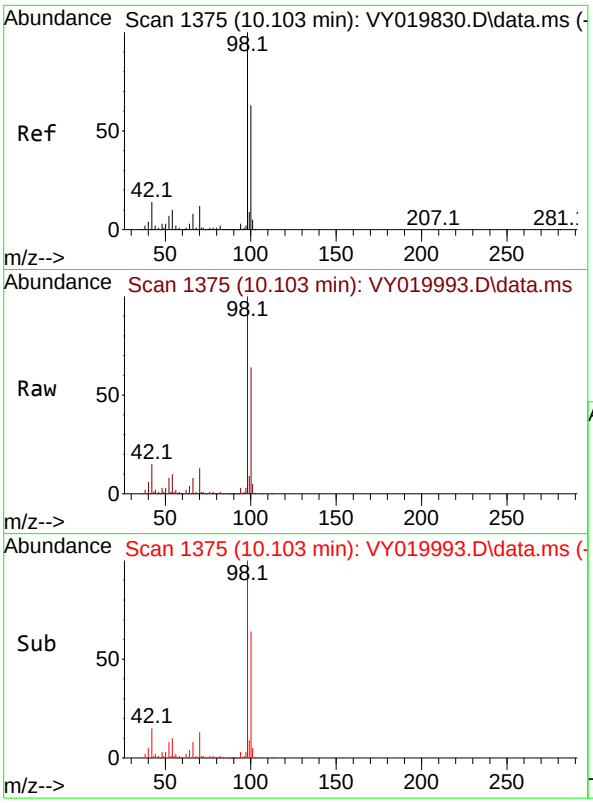


#35
Dibromofluoromethane
Concen: 48.794 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion:113 Resp: 136178

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.2	123.4
192	16.4	15.9	23.9



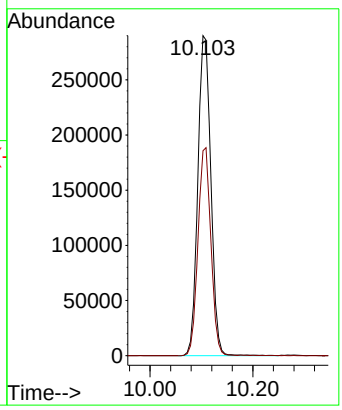


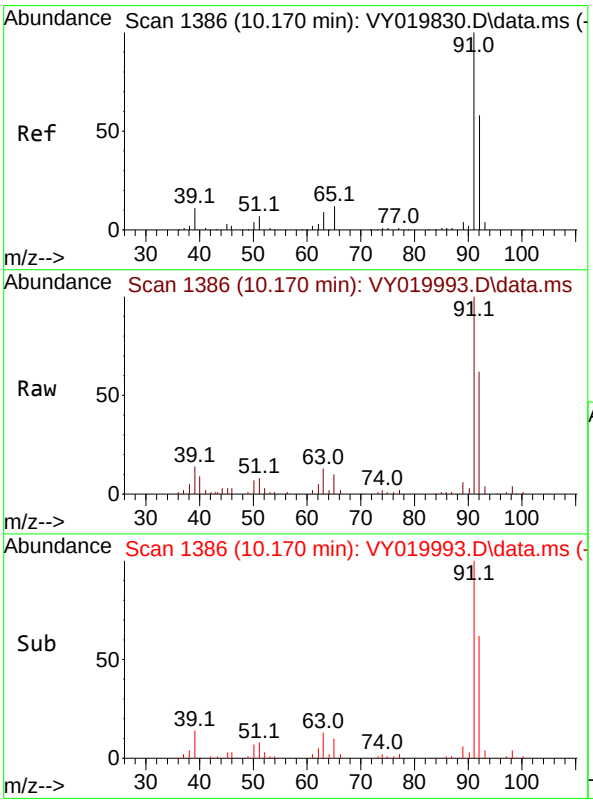
#50
Toluene-d8
Concen: 49.565 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion: 98 Resp: 510827

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0

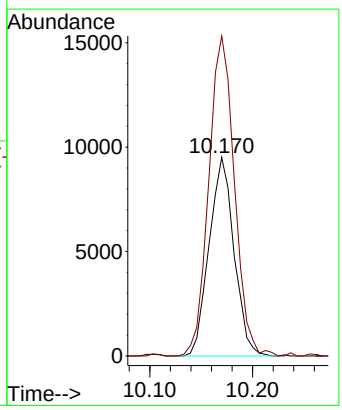


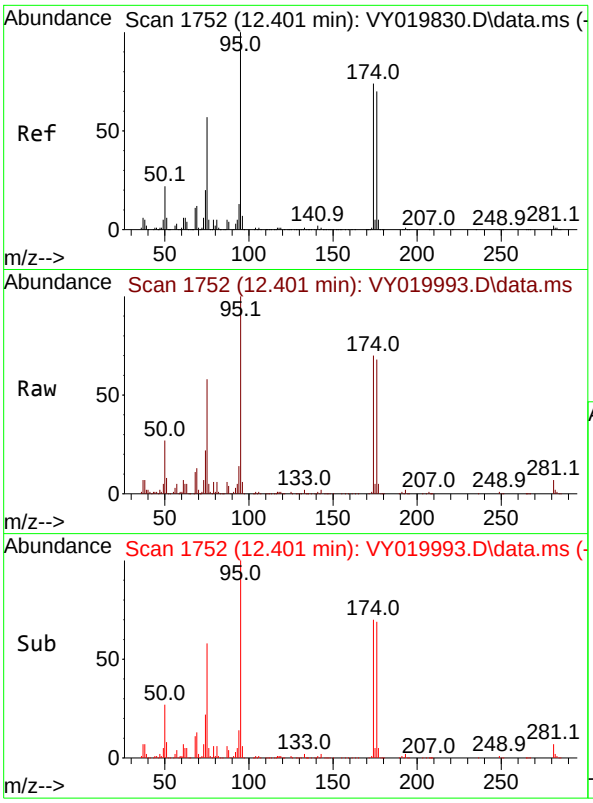


#52
Toluene
Concen: 2.107 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion: 92 Resp: 16003

Ion	Ratio	Lower	Upper
92	100		
91	166.0	139.0	208.6



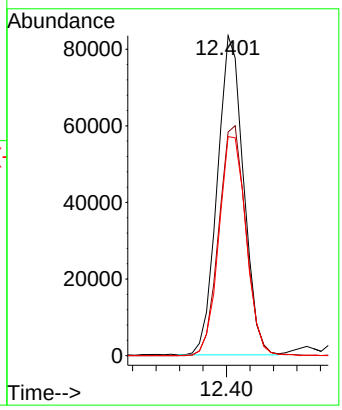


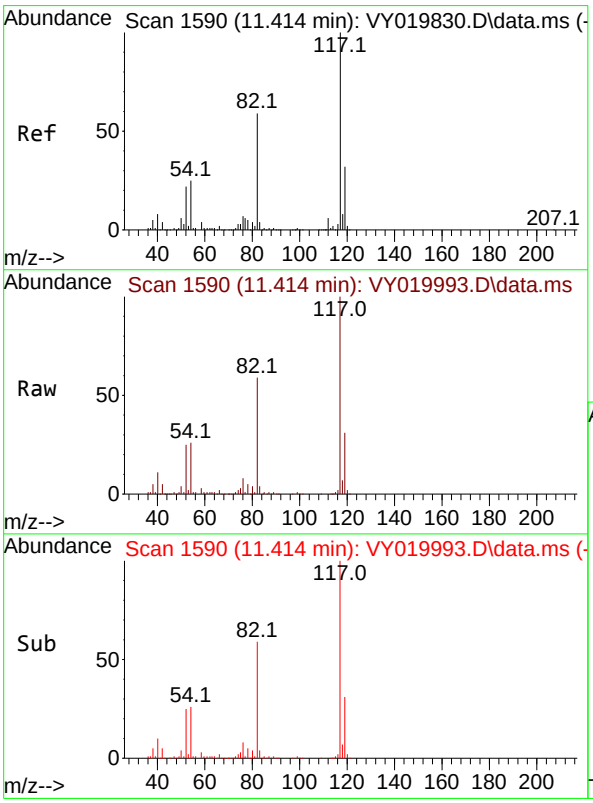
#62
4-Bromofluorobenzene
Concen: 34.739 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion: 95 Resp: 129366

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	175.6
176	71.5	0.0	171.4

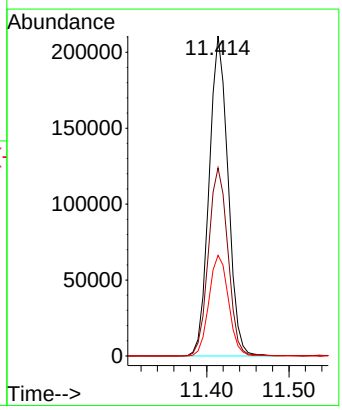




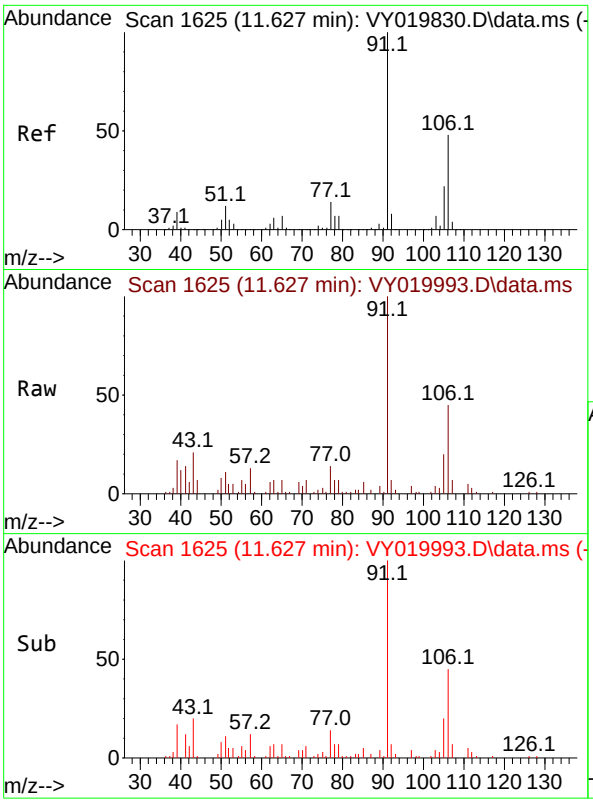
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion:117 Resp: 336247

Ion	Ratio	Lower	Upper
117	100		
82	58.8	42.4	63.6
119	31.5	25.9	38.9



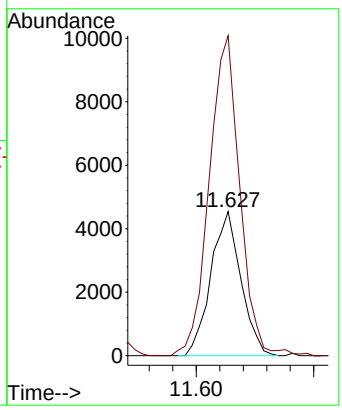
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

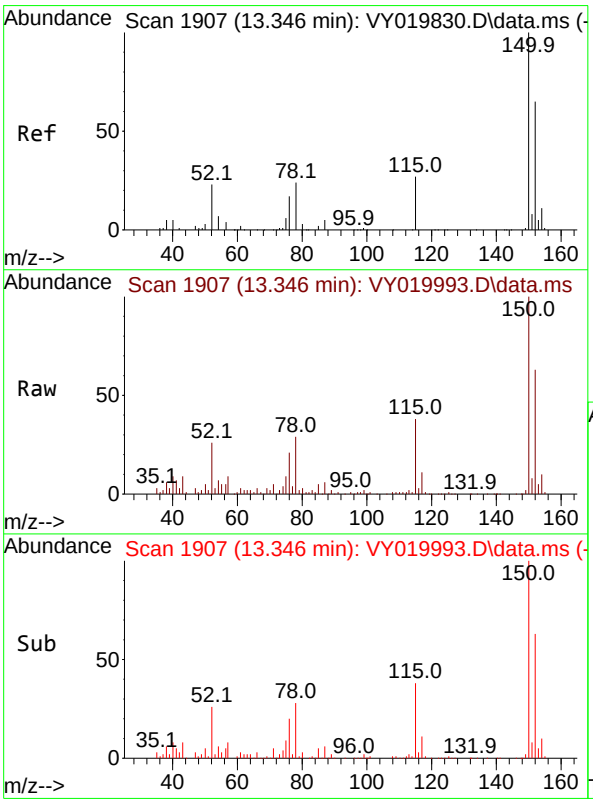


#68
m/p-Xylenes
Concen: 1.566 ug/l
RT: 11.627 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion:106 Resp: 8079

Ion	Ratio	Lower	Upper
106	100		
91	225.9	156.0	234.0

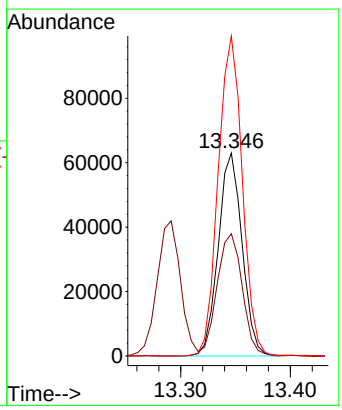


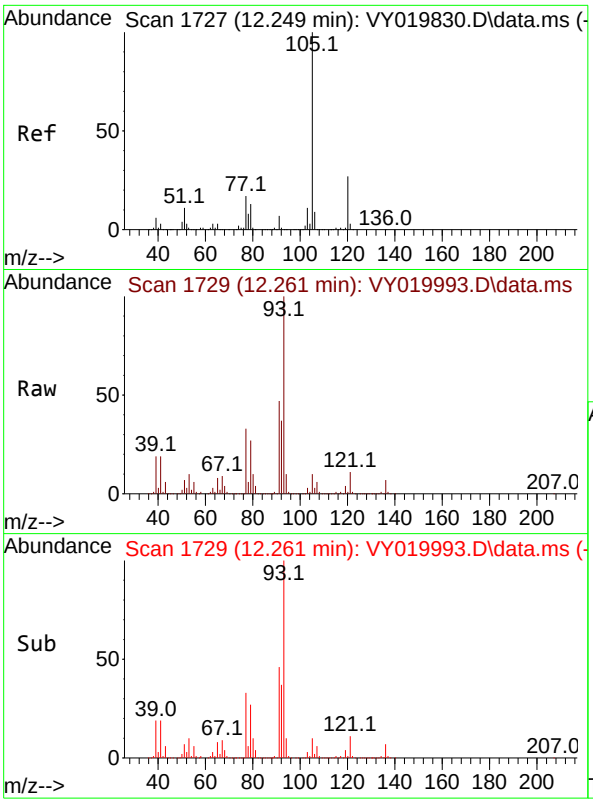


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion:152 Resp: 95105

Ion	Ratio	Lower	Upper
152	100		
115	63.7	28.2	84.7
150	160.0	0.0	345.6



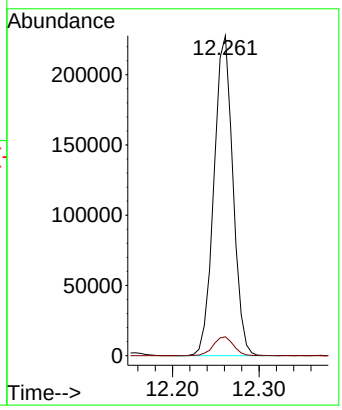


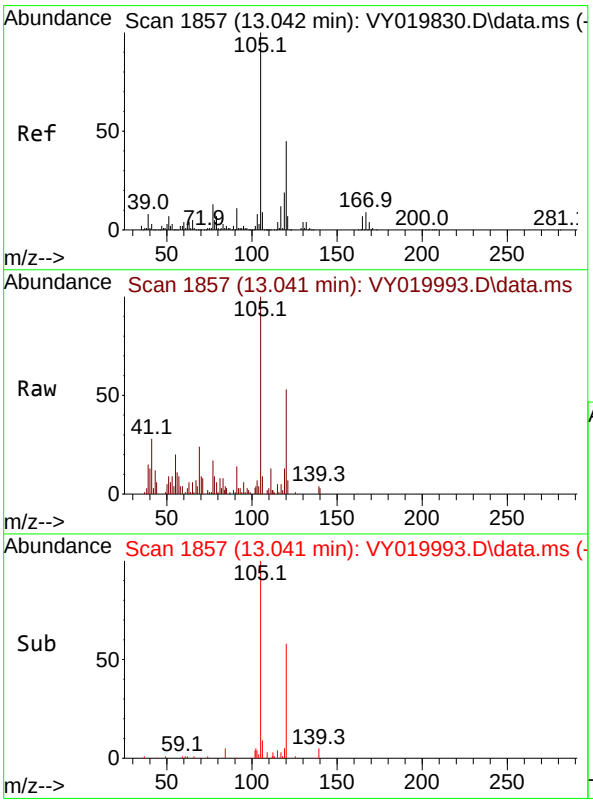
#73
Isopropylbenzene
Concen: 43.327 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion:105 Resp: 346599

Ion	Ratio	Lower	Upper
105	100		
120	6.3	13.4	40.1#

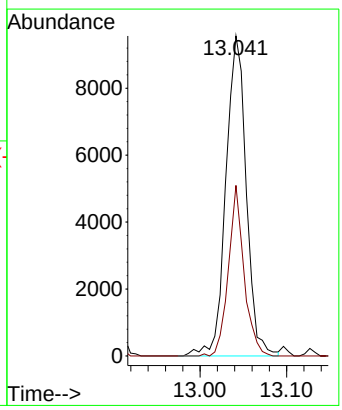


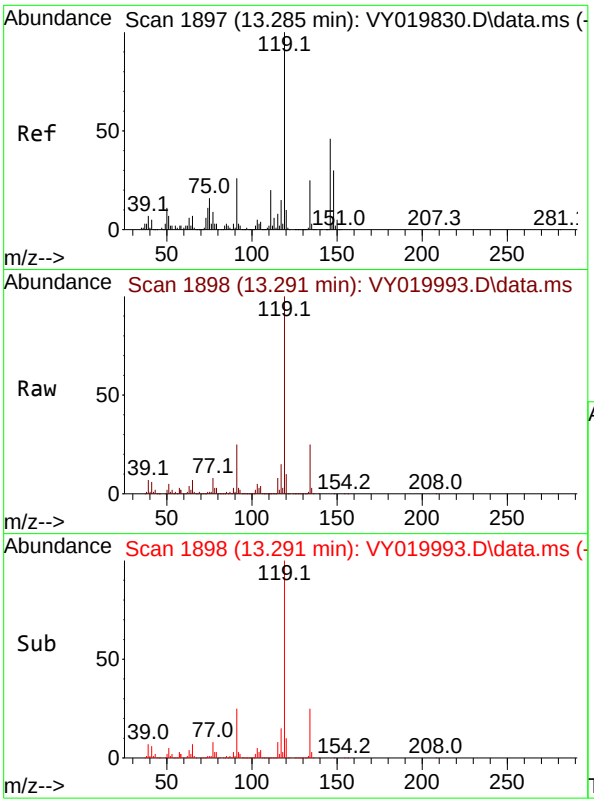


#84
1,2,4-Trimethylbenzene
Concen: 2.441 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Tgt Ion:105 Resp: 15636

Ion	Ratio	Lower	Upper
105	100		
120	40.9	23.2	69.6



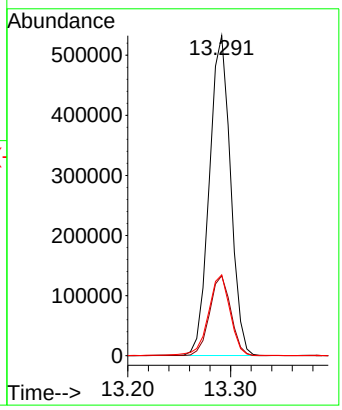


#86
p-Isopropyltoluene
Concen: 108.235 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019993.D
Acq: 23 Oct 2024 14:45

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Tgt Ion:119 Resp: 759982

Ion	Ratio	Lower	Upper
119	100		
134	24.9	13.1	39.3
91	26.0	10.7	32.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-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\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY019993.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.848	13	21	29	rVB	90343	166155	1.10%	0.556%
2	7.634	958	970	976	rBV	198435	475279	3.13%	1.591%
3	7.707	976	982	993	rVB	305218	703451	4.64%	2.355%
4	8.061	1031	1040	1052	rBV	187779	406217	2.68%	1.360%
5	8.615	1122	1131	1147	rBV	535077	1070675	7.06%	3.584%
6	10.103	1368	1375	1382	rBV	805753	1424668	9.40%	4.769%
7	11.414	1583	1590	1603	rBV	705336	1148646	7.58%	3.845%
8	12.151	1702	1711	1721	rBV2	100060	204857	1.35%	0.686%
9	12.261	1721	1729	1737	rBV	9749877	15161734	100.00%	50.758%
10	12.407	1744	1753	1758	rBV2	457058	785140	5.18%	2.628%
11	12.468	1758	1763	1766	rVV	191615	355476	2.34%	1.190%
12	12.505	1766	1769	1776	rVB	322725	481328	3.17%	1.611%
13	12.749	1797	1809	1818	rBV3	297936	653503	4.31%	2.188%
14	13.243	1881	1890	1892	rBV5	118337	250462	1.65%	0.838%
15	13.291	1892	1898	1902	rVV	1533497	2323512	15.32%	7.779%
16	13.346	1902	1907	1915	rVB	454610	742591	4.90%	2.486%
17	13.669	1954	1960	1965	rBV2	385013	634912	4.19%	2.126%
18	13.883	1991	1995	2000	rVB	187374	303297	2.00%	1.015%
19	14.169	2036	2042	2049	rBV8	215331	464611	3.06%	1.555%
20	14.340	2066	2070	2074	rVB	131755	198757	1.31%	0.665%
21	14.529	2096	2101	2108	rBV2	355345	492599	3.25%	1.649%
22	14.596	2108	2112	2116	rVV3	97843	168446	1.11%	0.564%
23	14.645	2116	2120	2127	rVB2	227138	360662	2.38%	1.207%
24	14.767	2136	2140	2148	rVB4	79746	172721	1.14%	0.578%
25	15.053	2183	2187	2192	rVB5	103772	187418	1.24%	0.627%
26	15.120	2193	2198	2203	rBV	151016	228026	1.50%	0.763%
27	15.340	2230	2234	2241	rVB	214339	305458	2.01%	1.023%

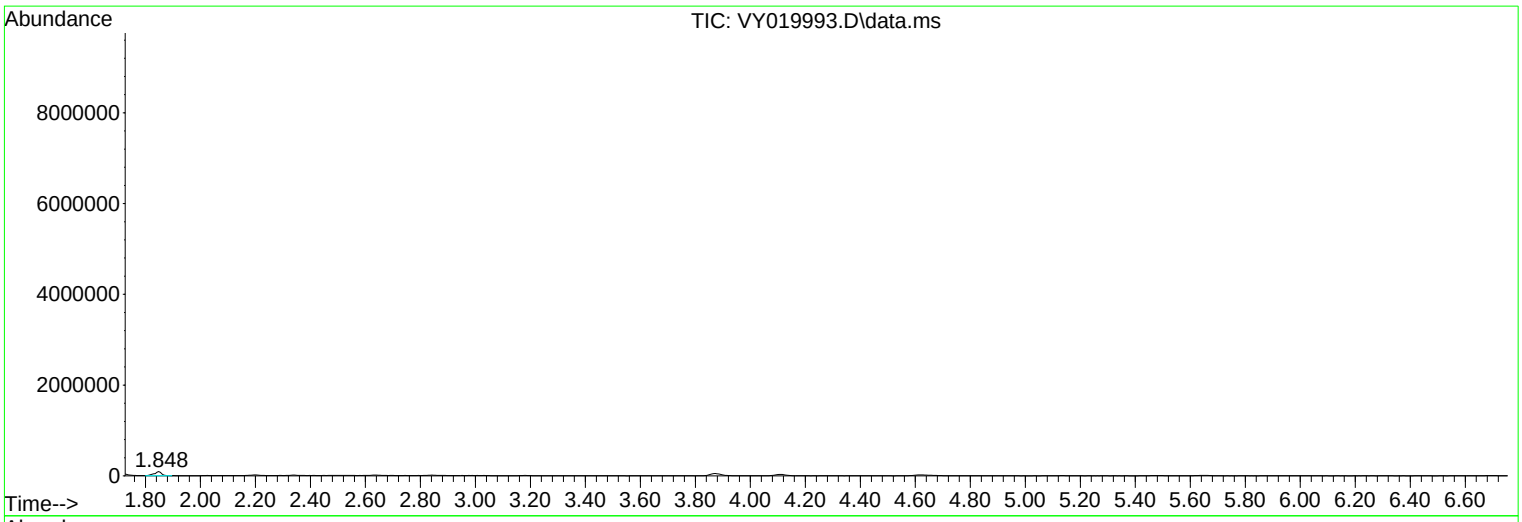
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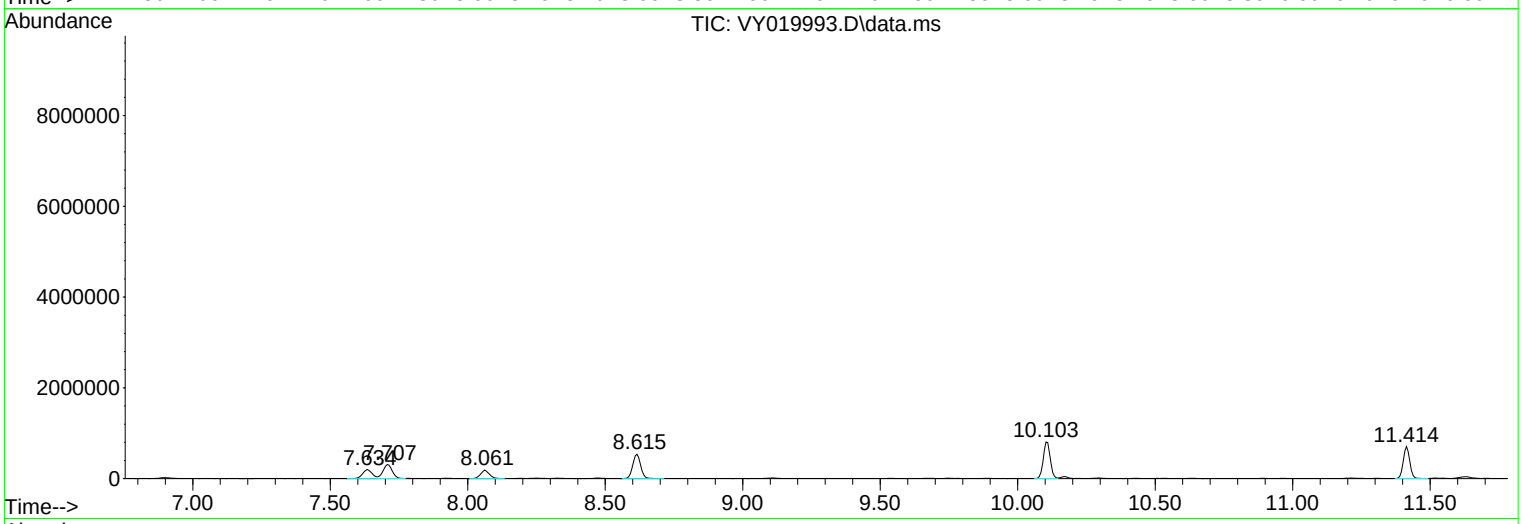
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

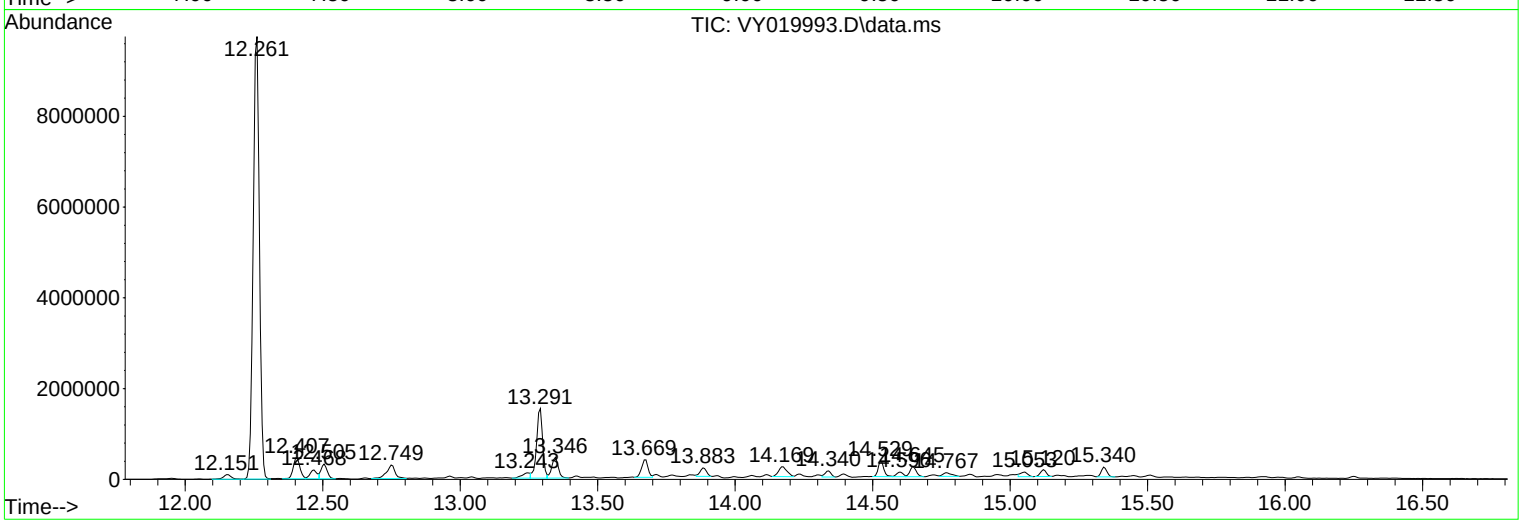
Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

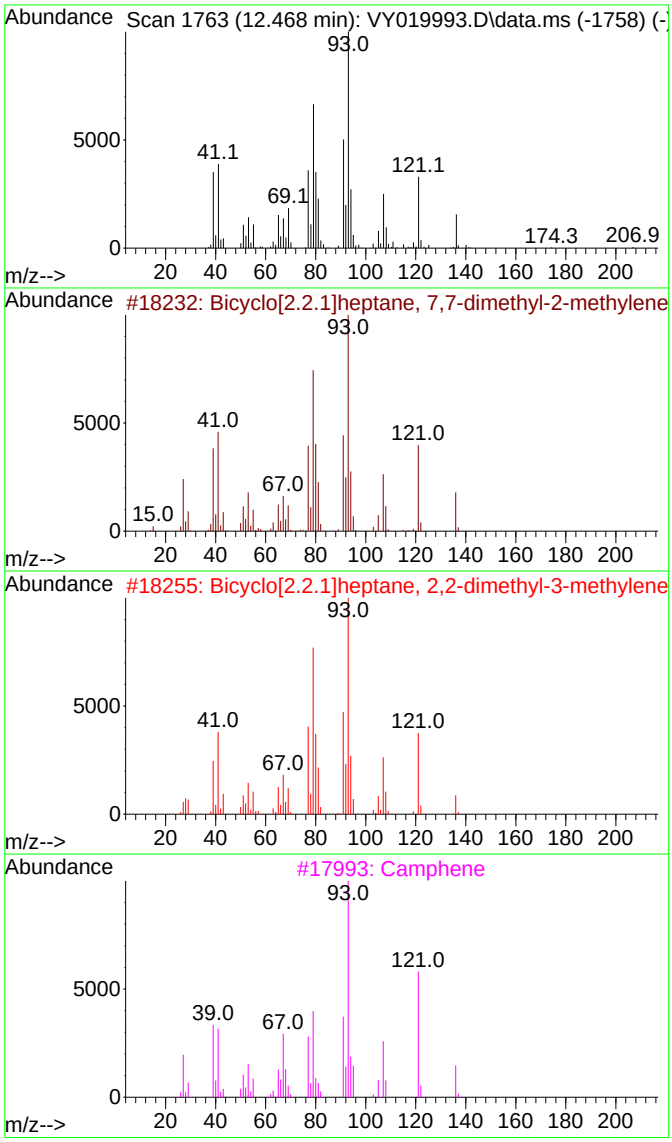
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Quant Title : SW846 8260

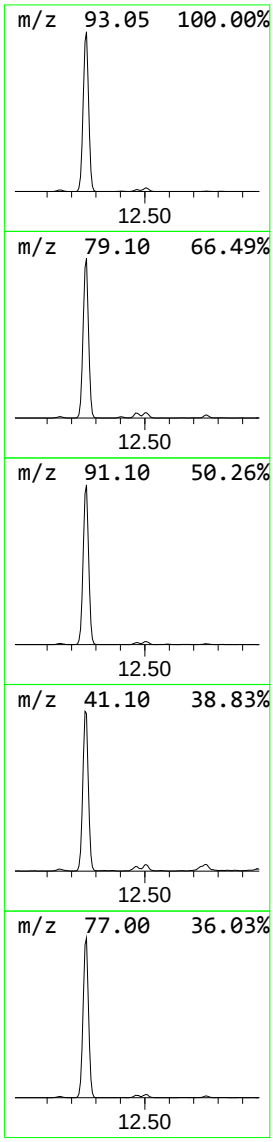
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Bicyclo[2.2.1]heptane, 7,7-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.468	23.93 ug/l	355476	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptane, 7,7-dimet...	136	C10H16	000471-84-1	98
2	Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-03-6	97
3	Camphene	136	C10H16	000079-92-5	86
4	1,3,6-Heptatriene, 2,5,5-trimethyl-	136	C10H16	029548-02-5	64
5	3-Carene	136	C10H16	013466-78-9	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

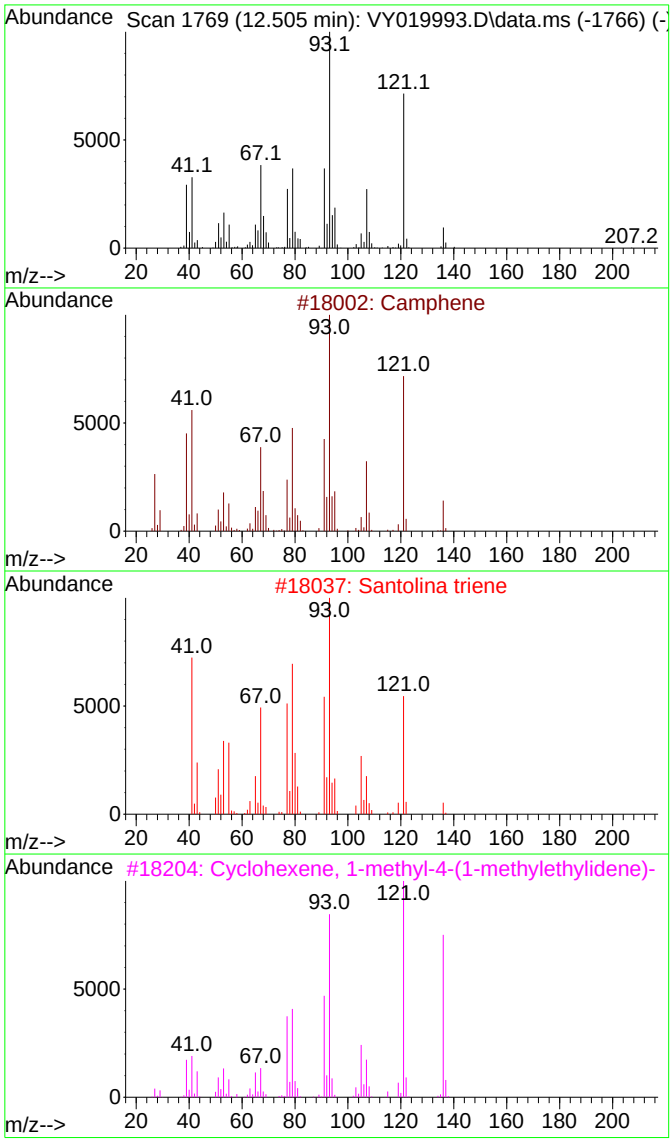
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TIC Integration Parameters: LSCINT.P

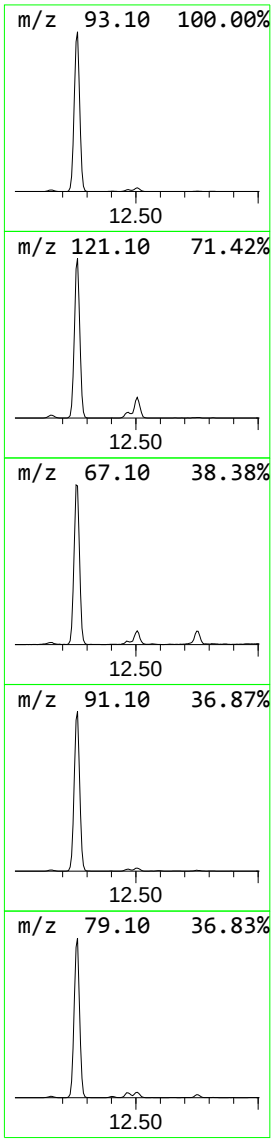
****

Peak Number 2 Camphene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.505	32.41 ug/l	481328	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Camphene	136	C10H16	000079-92-5	87
2	Santolina triene	136	C10H16	002153-66-4	59
3	Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	000586-62-9	58
4	4-Carene, (1S,3S,6R)-(-)-	136	C10H16	005208-50-4	58
5	.beta.-Pinene	136	C10H16	000127-91-3	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

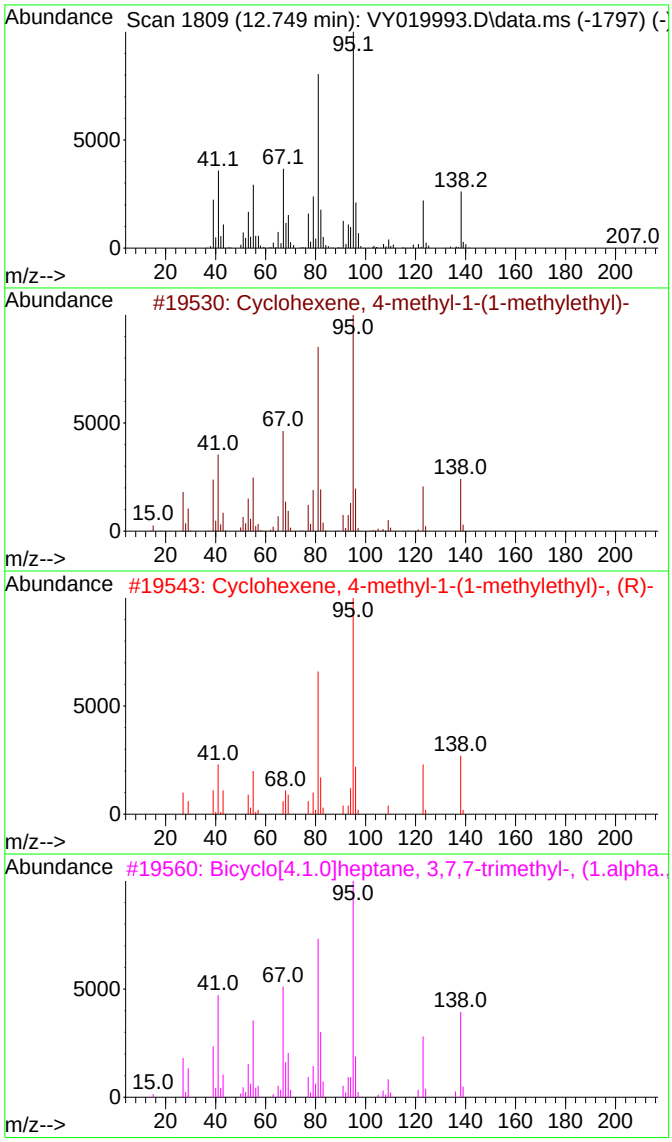
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Quant Title : SW846 8260

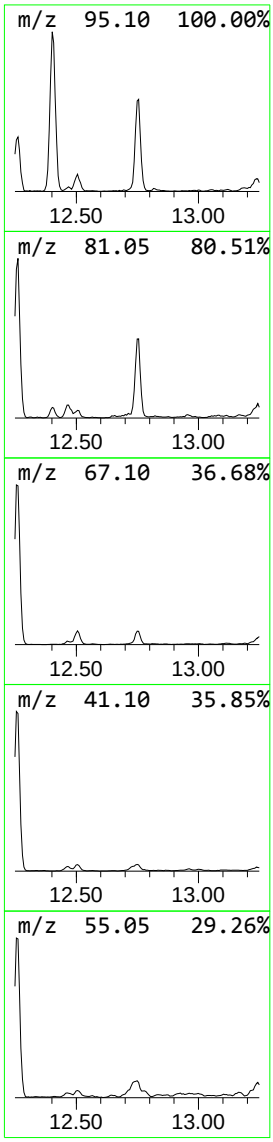
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Cyclohexene, 4-methyl-1-(1-... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.749	44.00 ug/l	653503	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000500-00-5	96
2	Cyclohexene, 4-methyl-1-(1-methy...	138	C10H18	000619-52-3	93
3	Bicyclo[4.1.0]heptane, 3,7,7-tri...	138	C10H18	018968-23-5	90
4	Bicyclo[4.1.0]heptane, 3,7,7-tri...	138	C10H18	000554-59-6	81
5	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	005502-88-5	60





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

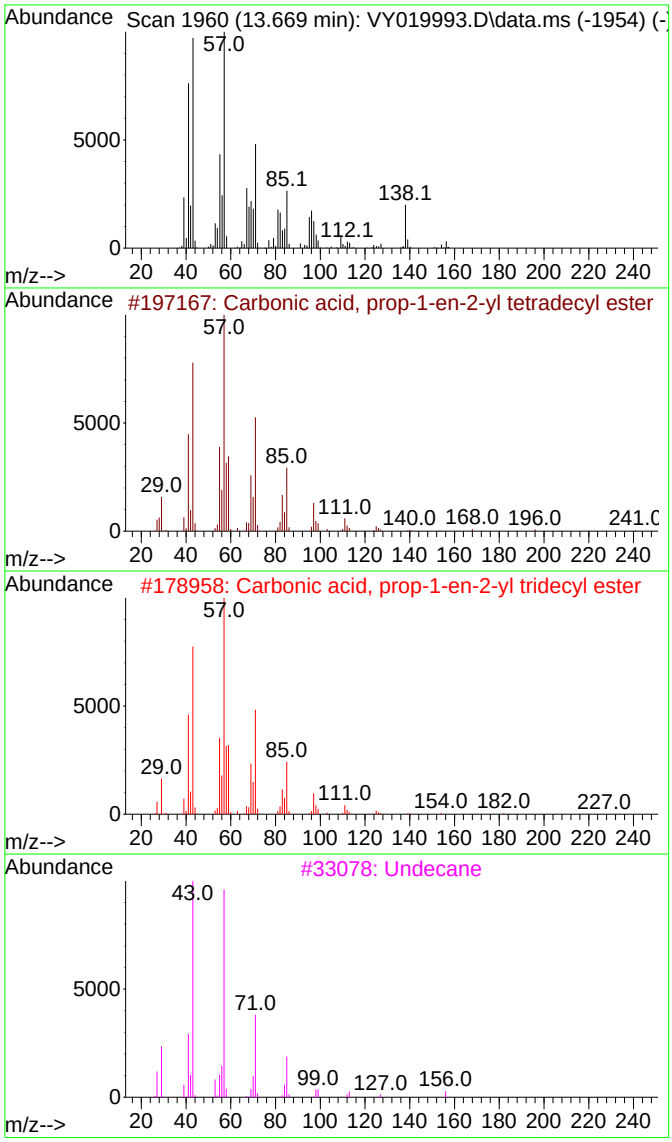
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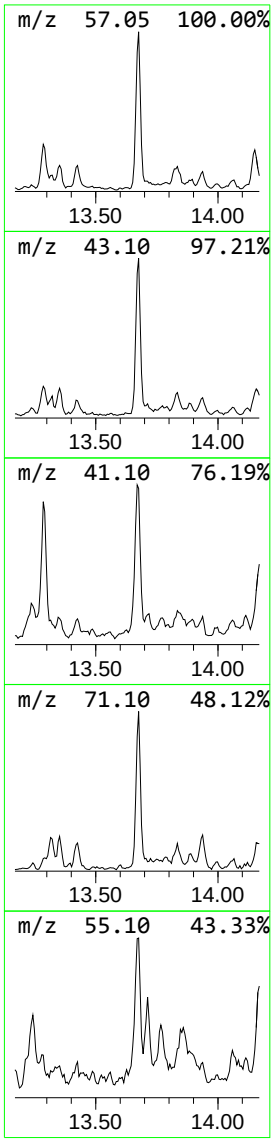
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 unknown13.669 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.669	42.75 ug/l	634912	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, prop-1-en-2-yl te...	298	C18H34O3	1000382-90-9	46
2	Carbonic acid, prop-1-en-2-yl tr...	284	C17H32O3	1000382-90-8	46
3	Undecane	156	C11H24	001120-21-4	45
4	Carbonic acid, nonyl prop-1-en-2...	228	C13H24O3	1000382-53-9	43
5	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

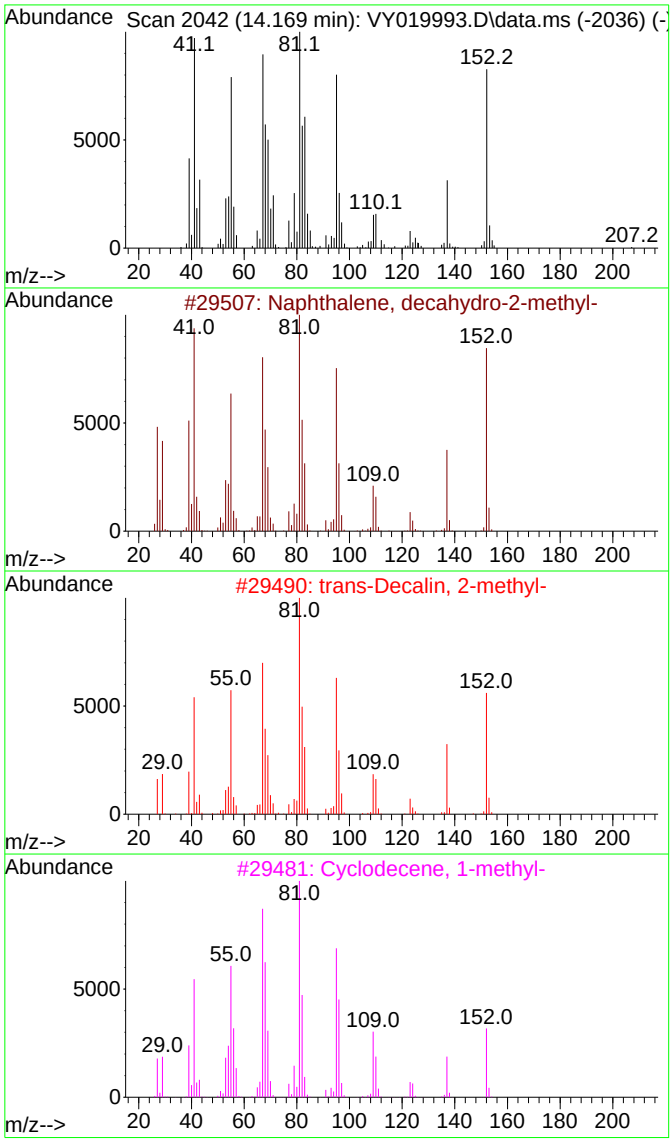
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Quant Title : SW846 8260

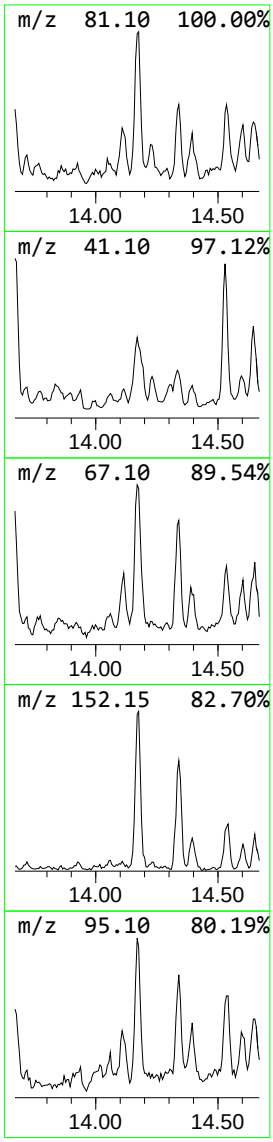
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, decahydro-2-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.169	31.28 ug/l	464611	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	96
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	94
3	Cyclodecene, 1-methyl-	152	C11H20	066633-38-3	83
4	Cyclohexanone, 2-methyl-5-(1-met...	152	C10H16O	005948-04-9	70
5	Bicyclo[4.1.0]heptan-3-one, 4,7,...	152	C10H16O	004176-04-9	70





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

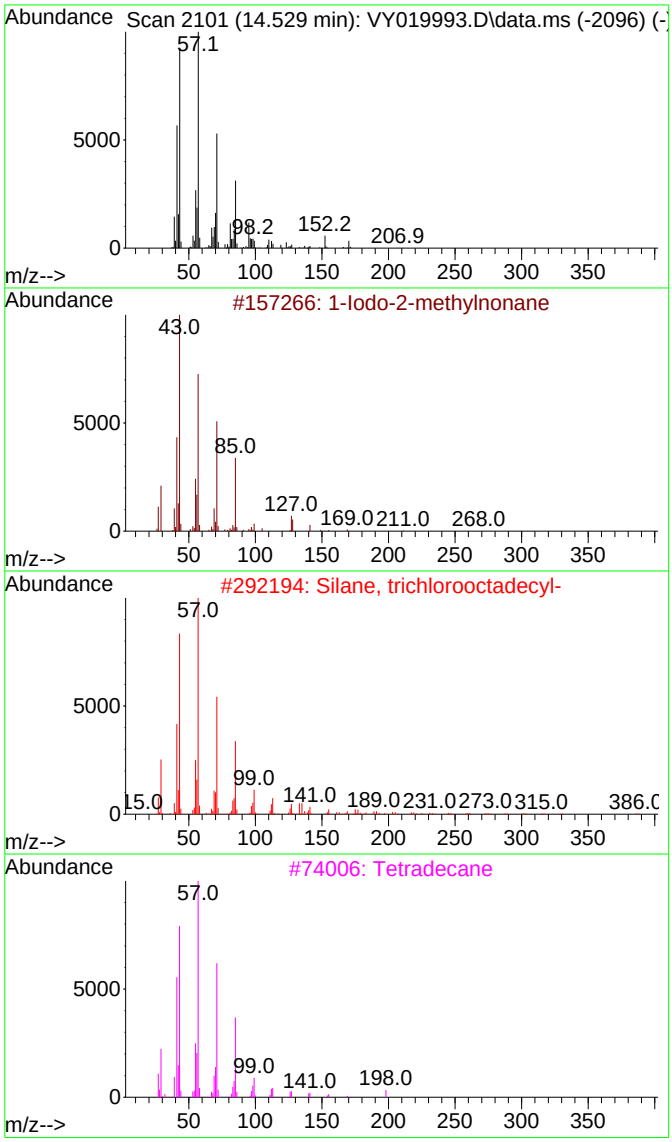
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

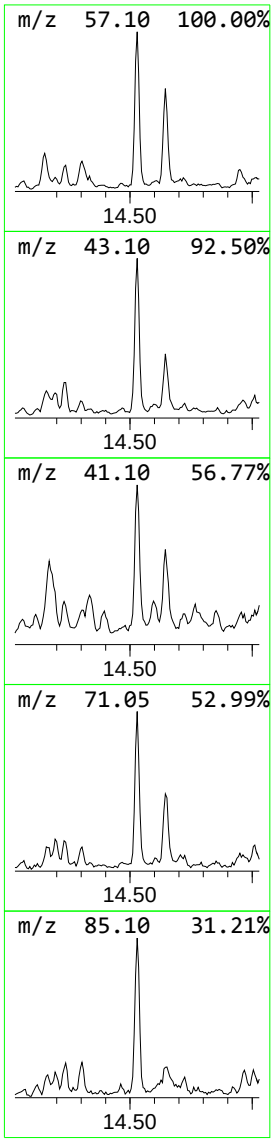
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Peak Number 7 1-Iodo-2-methylnonane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.529	33.17 ug/l	492599	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	64
2	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	64
3	Tetradecane	198	C14H30	000629-59-4	53
4	Decane, 2,3,7-trimethyl-	184	C13H28	062238-13-5	53
5	3-Ethyl-3-methylheptane	142	C10H22	017302-01-1	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

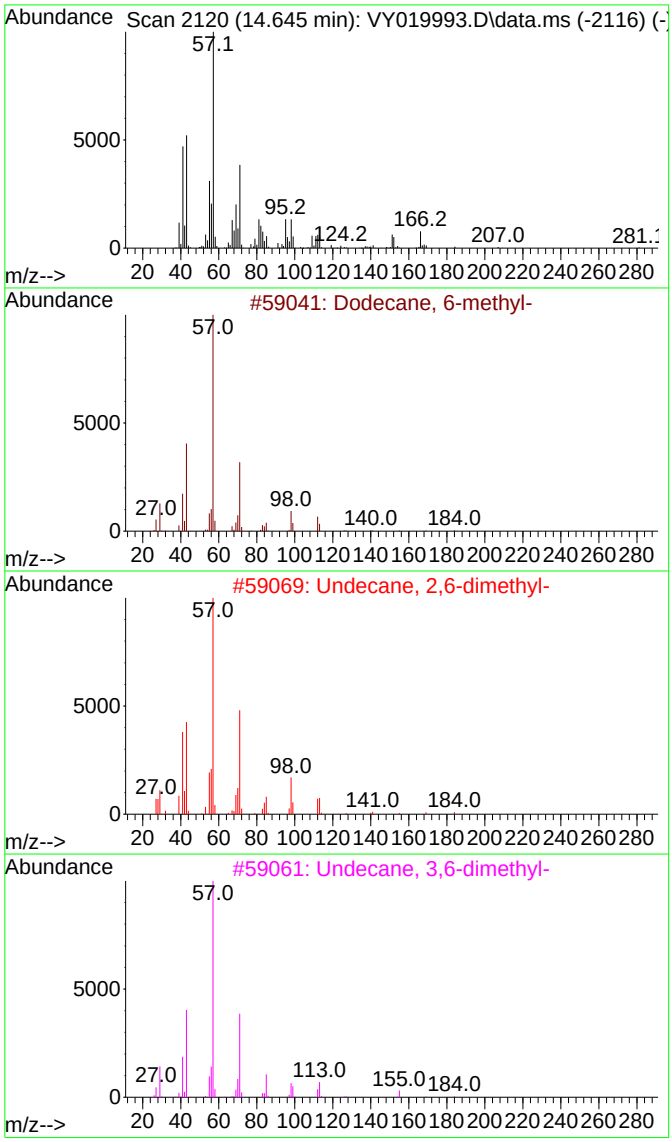
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

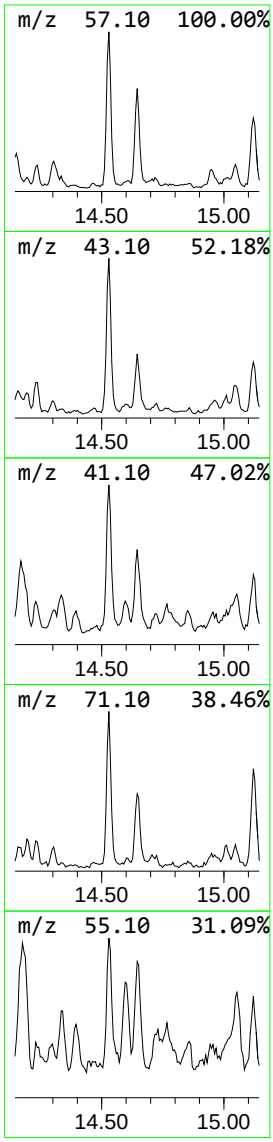
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Peak Number 8 Dodecane, 6-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	24.28 ug/l	360662	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 6-methyl-	184	C13H28	006044-71-9	91
2	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	90
3	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	64
4	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	58
5	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

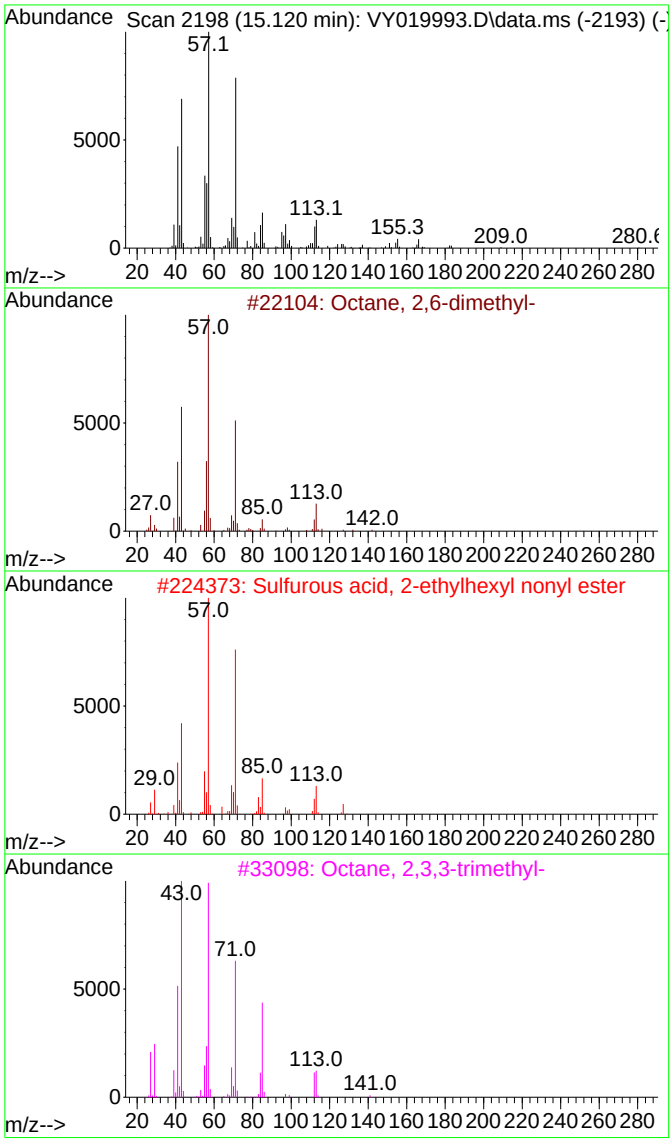
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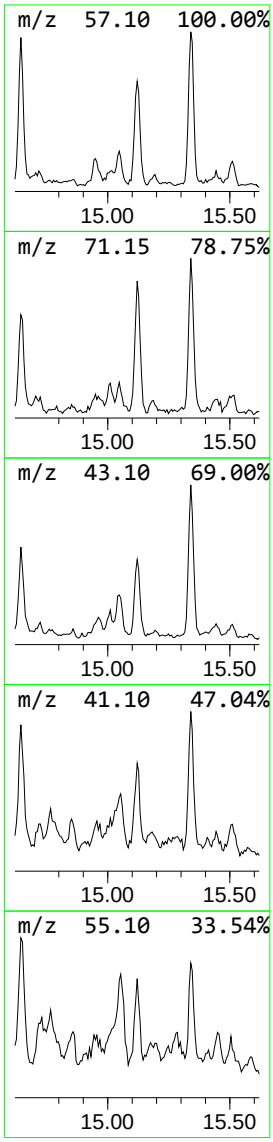
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Peak Number 9 Octane, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.120	15.35 ug/l	228026	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	72
2	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1010309-19-2	72
3	Octane, 2,3,3-trimethyl-	156	C11H24	062016-30-2	72
4	Oxalic acid, 2-ethylhexyl nonyl ...	328	C19H36O4	1000309-39-2	64
5	Sulfurous acid, 2-ethylhexyl hex...	418	C24H50O3S	1000309-19-9	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

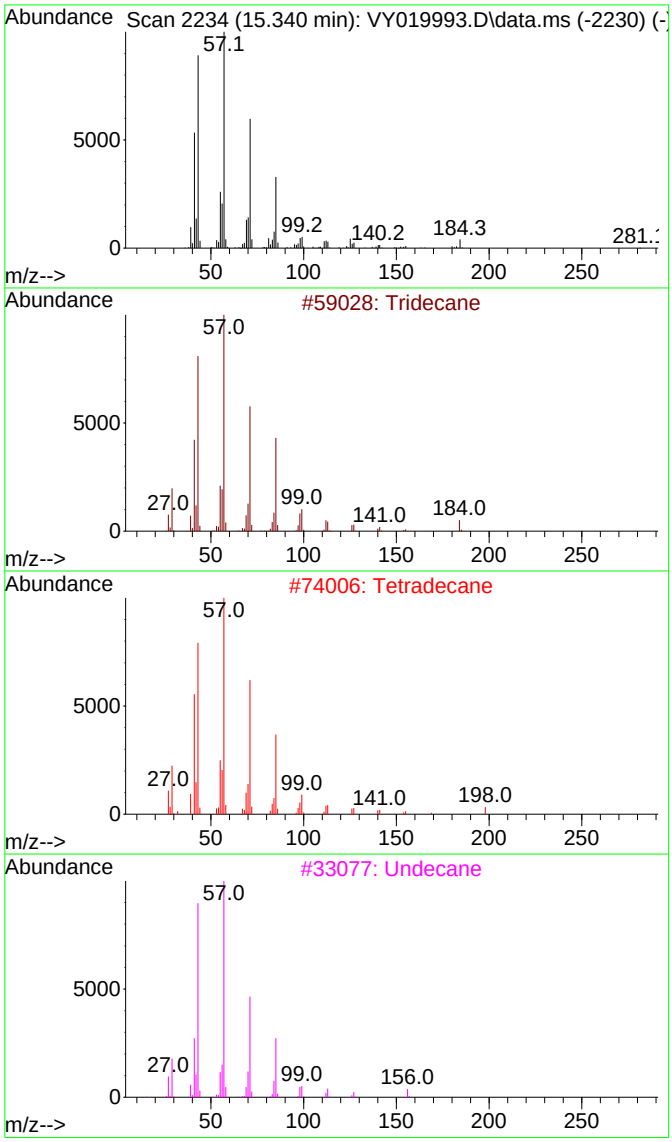
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

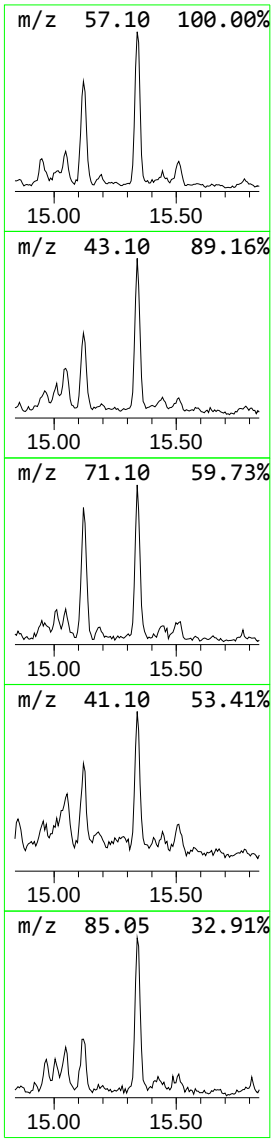
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Peak Number 10 Tridecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.340	20.57 ug/l	305458	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	91
2	Tetradecane	198	C14H30	000629-59-4	86
3	Undecane	156	C11H24	001120-21-4	72
4	Hexadecane	226	C16H34	000544-76-3	64
5	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019993.D
Acq On : 23 Oct 2024 14:45
Operator : SY/MD
Sample : P4471-02
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-180-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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
Bicyclo[2.2.1]h...	12.468	23.9	ug/l	355476	4	13.346	742591	50.0
Camphene	12.505	32.4	ug/l	481328	4	13.346	742591	50.0
Cyclohexene, 4-...	12.749	44.0	ug/l	653503	4	13.346	742591	50.0
unknown13.669	13.669	42.8	ug/l	634912	4	13.346	742591	50.0
Naphthalene, de...	14.169	31.3	ug/l	464611	4	13.346	742591	50.0
1-Iodo-2-methyl...	14.529	33.2	ug/l	492599	4	13.346	742591	50.0
Dodecane, 6-met...	14.645	24.3	ug/l	360662	4	13.346	742591	50.0
Octane, 2,6-dim...	15.120	15.4	ug/l	228026	4	13.346	742591	50.0
Tridecane	15.340	20.6	ug/l	305458	4	13.346	742591	50.0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Time: Oct 22 01:39:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

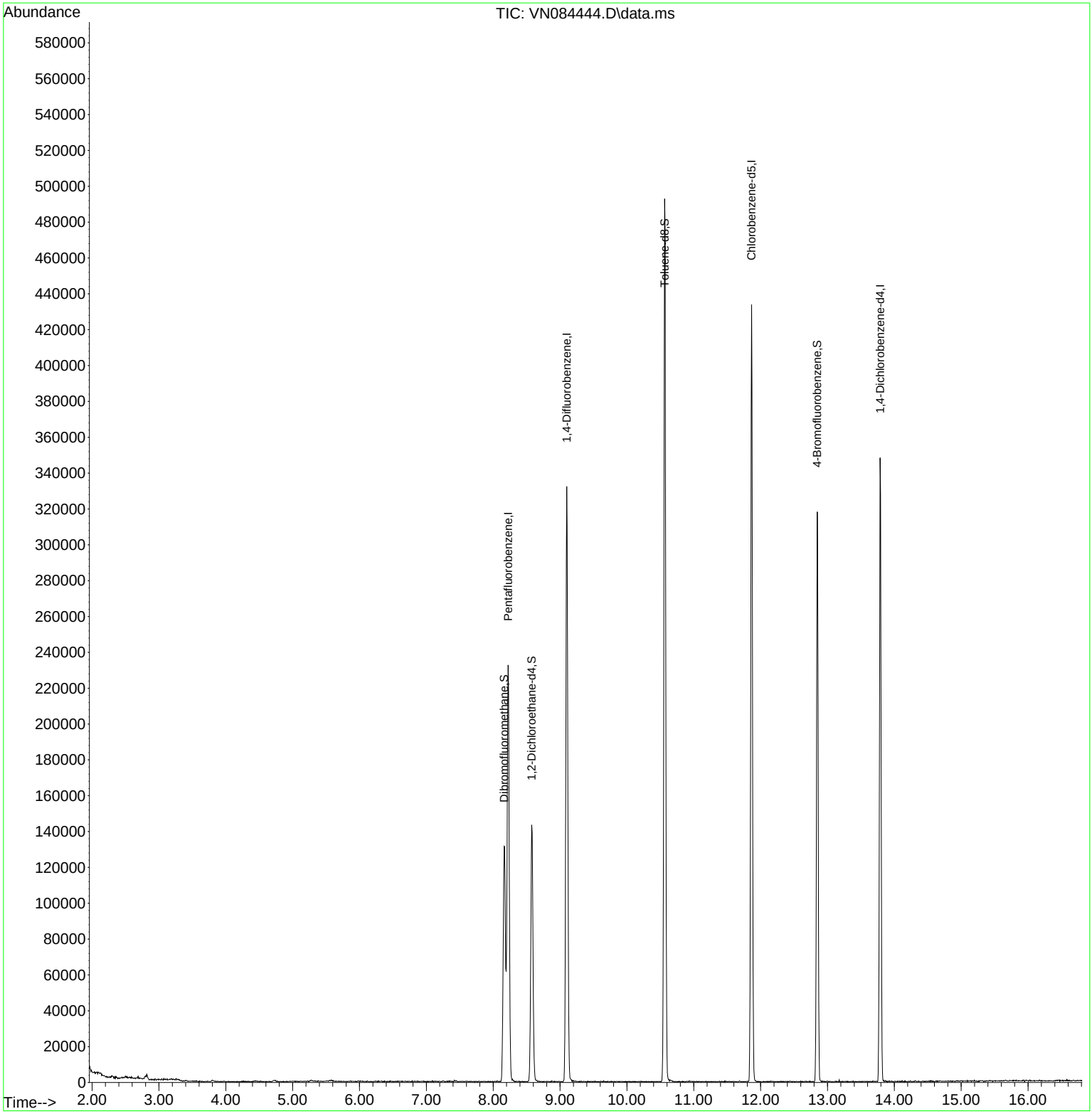
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	164715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	283567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	92567	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120791	49.460	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.920%			
35) Dibromofluoromethane	8.165	113	98047	52.447	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.900%			
50) Toluene-d8	10.565	98	344898	50.146	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.300%			
62) 4-Bromofluorobenzene	12.847	95	112552	44.919	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.840%			
Target Compounds						Qvalue

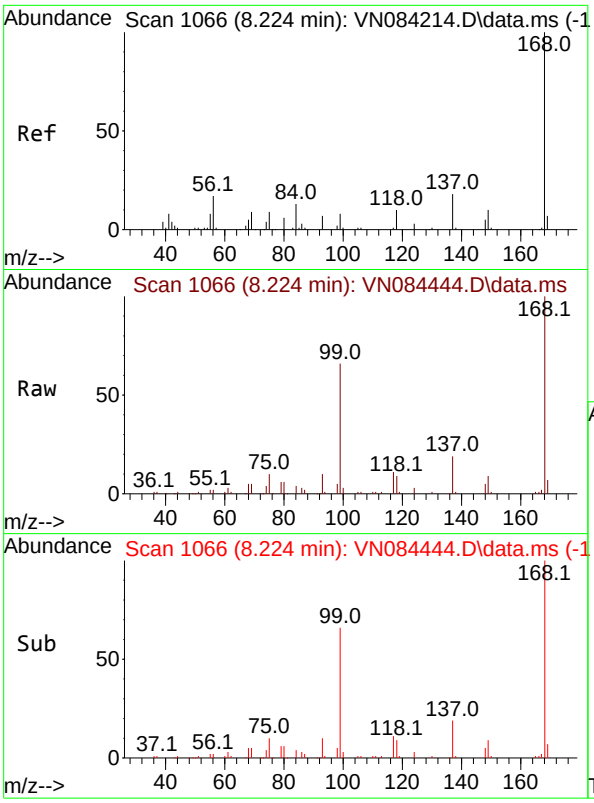
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Time: Oct 22 01:39:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



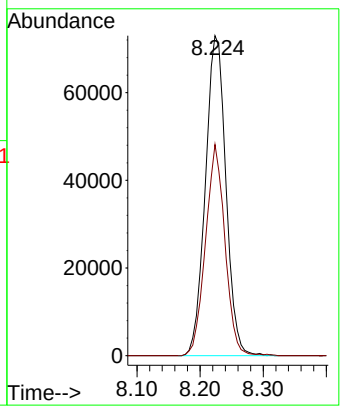


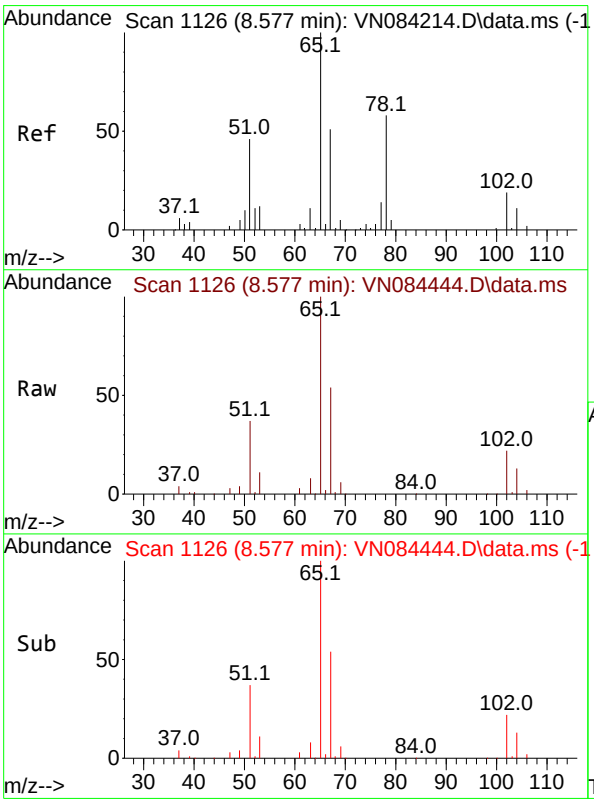
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Tgt Ion:168 Resp: 164715

Ion	Ratio	Lower	Upper
168	100		
99	66.0	54.2	81.2

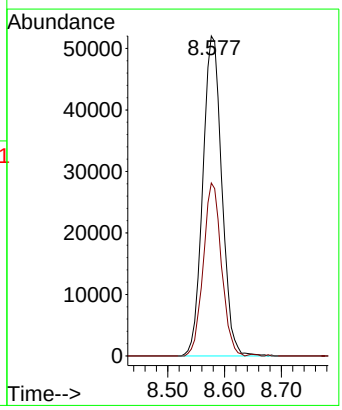


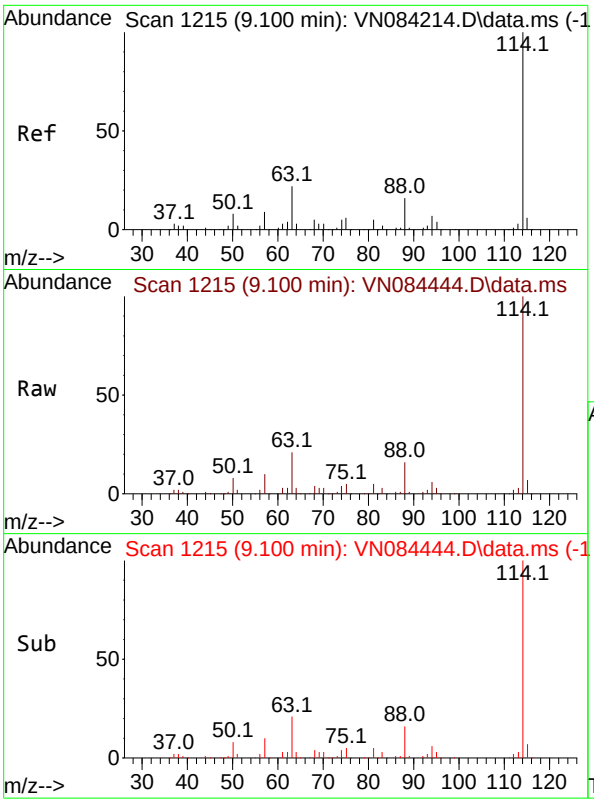


#33
1,2-Dichloroethane-d4
Concen: 49.460 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion: 65 Resp: 120791

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	102.0



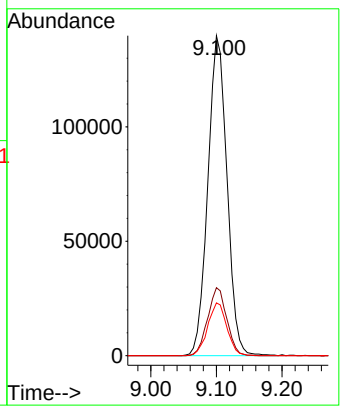


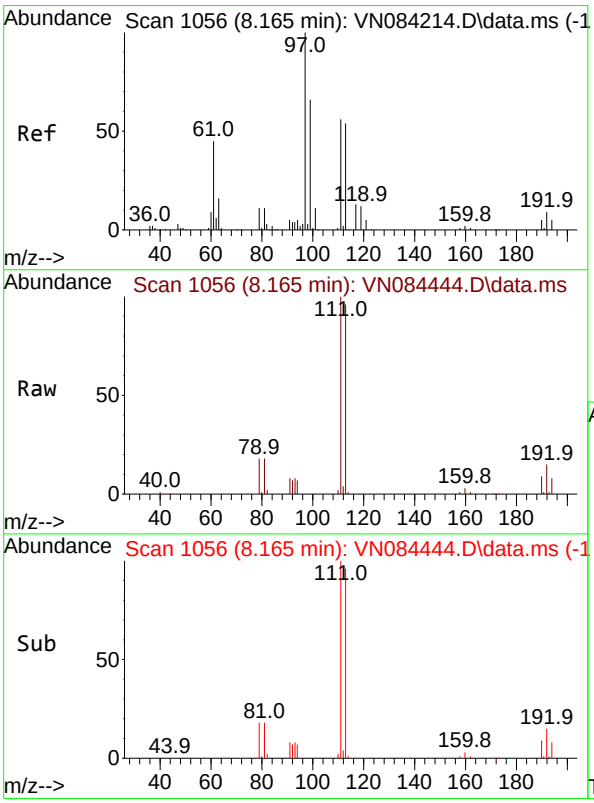
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Tgt Ion:114 Resp: 283567

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.8
88	16.5	0.0	31.6

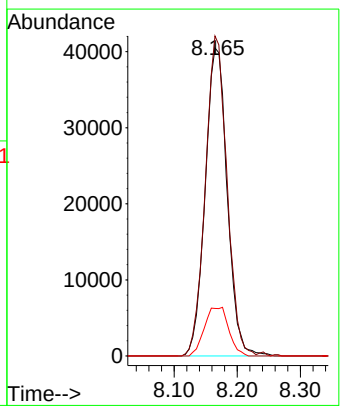


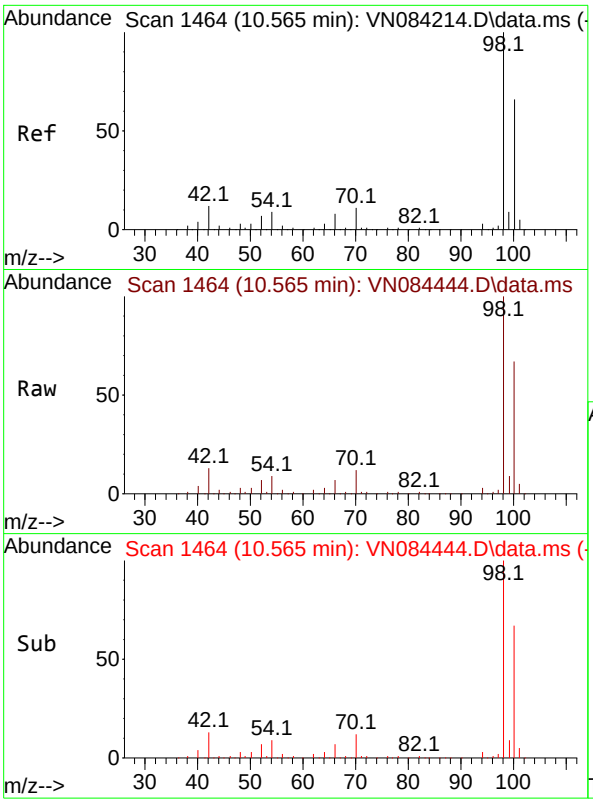


#35
Dibromofluoromethane
Concen: 52.447 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion:113 Resp: 98047

Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.3	124.9
192	17.4	13.5	20.3



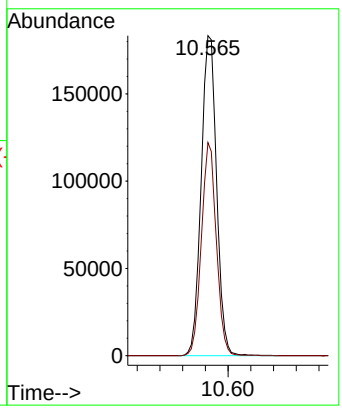


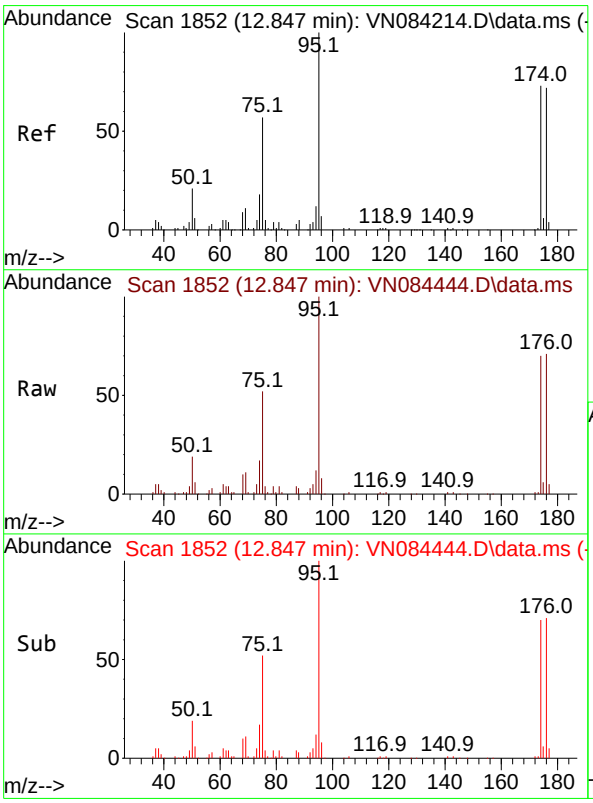
#50
Toluene-d8
Concen: 50.146 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Tgt Ion: 98 Resp: 344898

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.7	79.1

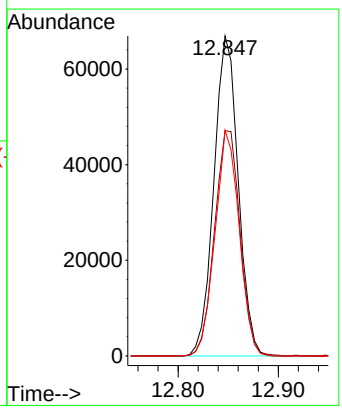




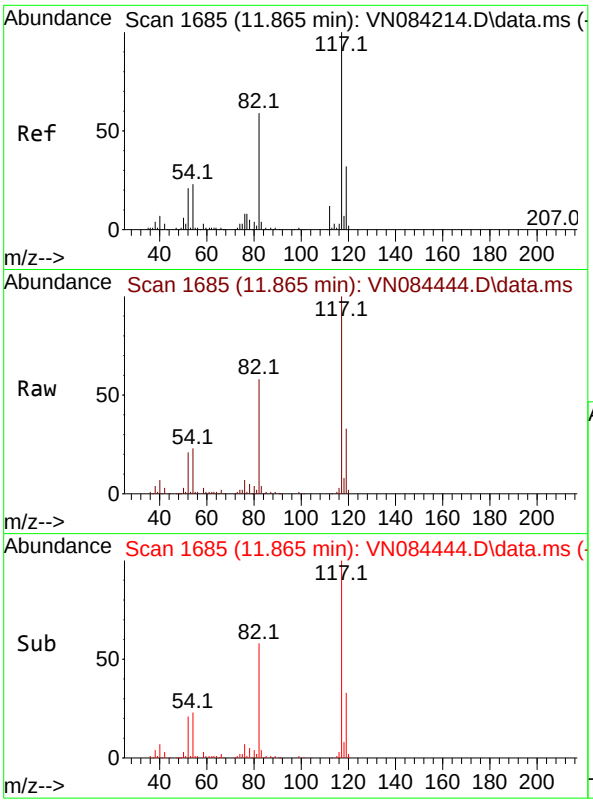
#62
4-Bromofluorobenzene
Concen: 44.919 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion: 95 Resp: 112552

Ion	Ratio	Lower	Upper
95	100		
174	73.9	0.0	145.2
176	70.0	0.0	140.0



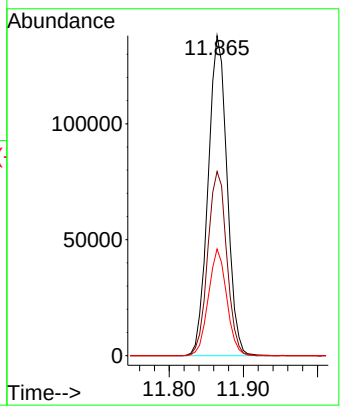
Instrument :
MSVOA_N
ClientSampleId :
TB100824

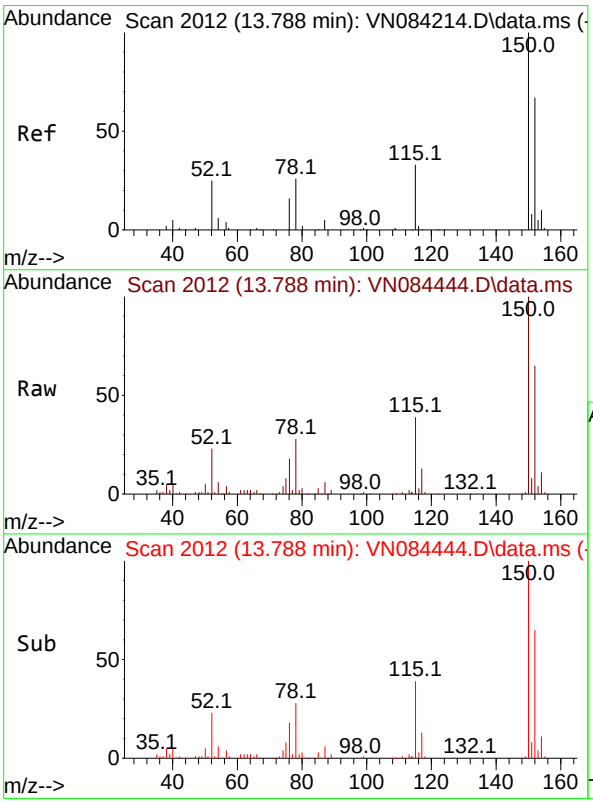


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion:117 Resp: 244917

Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.2	70.8
119	33.3	25.4	38.0

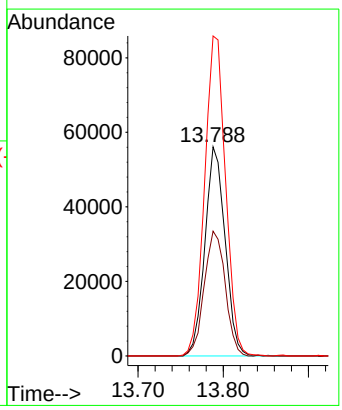




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084444.D
Acq: 21 Oct 2024 18:28

Tgt Ion:152 Resp: 92567

Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.3	93.9
150	158.2	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

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\82N093024W.M
Title : SW846 8260

Signal : TIC: VN084444.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	1047	1056	1061	rBV2	131297	324752	35.60%	7.036%
2	8.224	1061	1066	1076	rVB	231782	503367	55.17%	10.906%
3	8.577	1115	1126	1141	rBV	143424	328999	36.06%	7.128%
4	9.100	1205	1215	1228	rBV	332344	676827	74.19%	14.664%
5	10.565	1453	1464	1476	rBV	492702	912320	100.00%	19.766%
6	11.865	1676	1685	1695	rBV	433585	759689	83.27%	16.459%
7	12.847	1844	1852	1863	rVB	318112	532017	58.31%	11.527%
8	13.788	2005	2012	2020	rBV	348140	577611	63.31%	12.514%

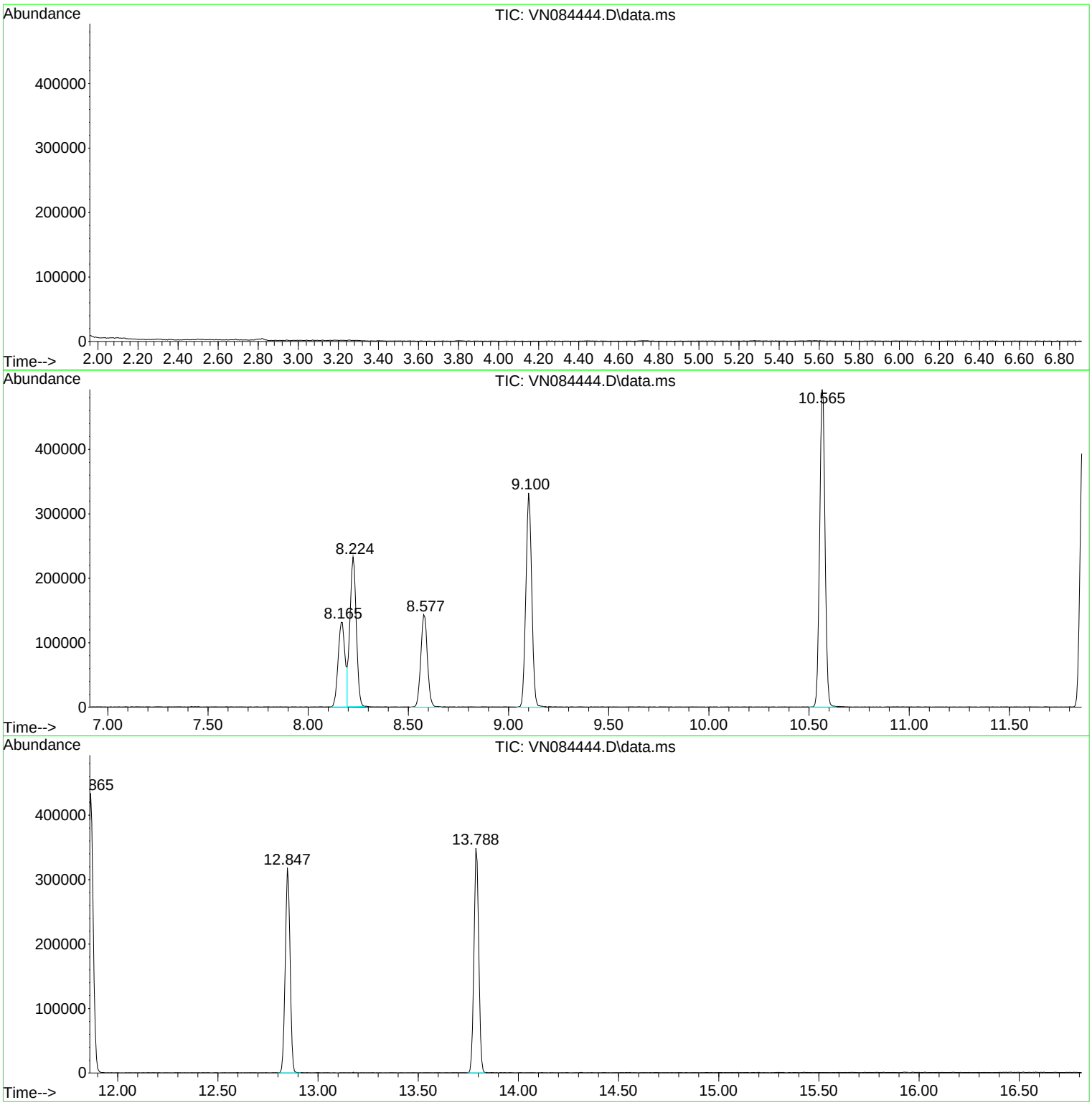
Sum of corrected areas: 4615582

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102124\
Data File : VN084444.D
Acq On : 21 Oct 2024 18:28
Operator : JC\MD
Sample : P4471-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB100824

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Time: Oct 22 01:31:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	167468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	295479	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	254088	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99954	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120667	48.597	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.200%			
35) Dibromofluoromethane	8.165	113	99495	51.076	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.160%			
50) Toluene-d8	10.565	98	349958	48.830	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.660%			
62) 4-Bromofluorobenzene	12.847	95	116683	44.690	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.380%			

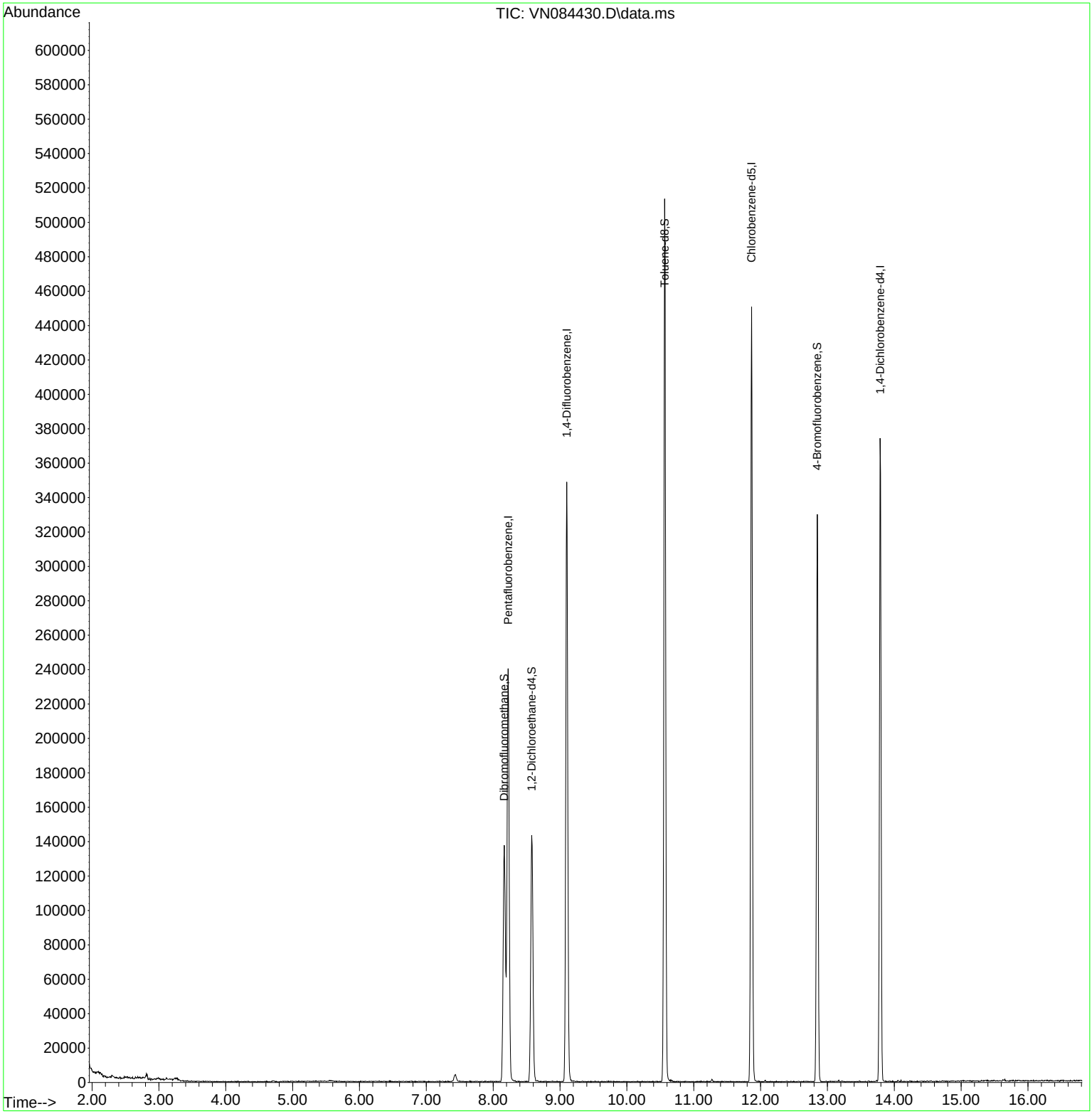
Target Compounds Qvalue

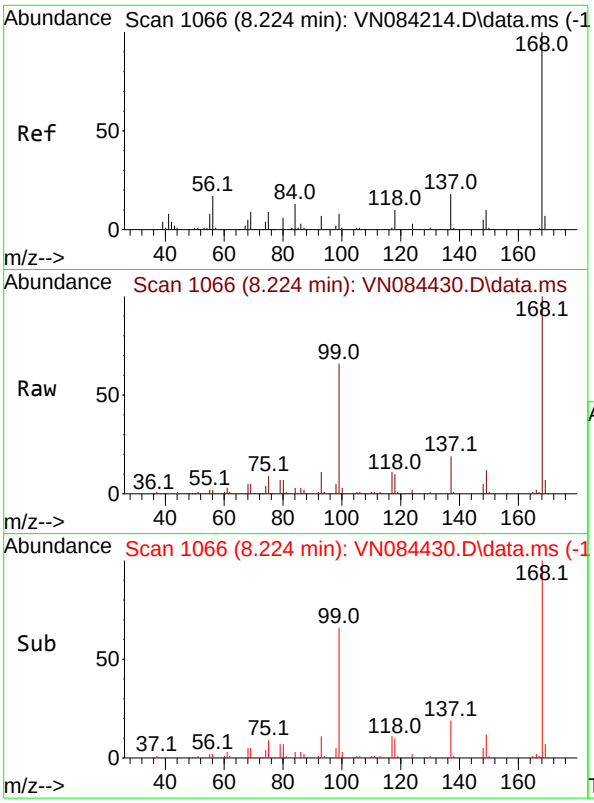
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Time: Oct 22 01:31:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



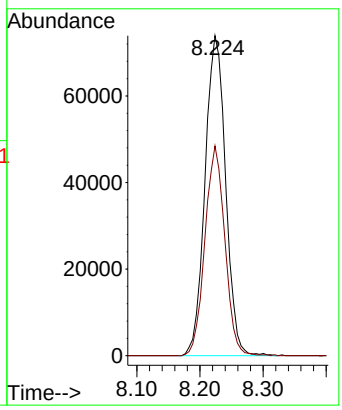


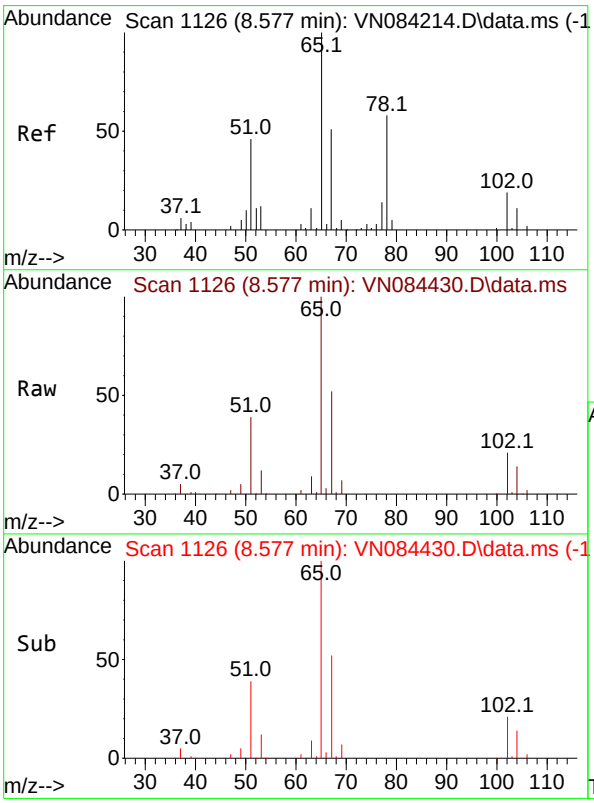
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Tgt Ion:168 Resp: 167468

Ion	Ratio	Lower	Upper
168	100		
99	65.6	54.2	81.2

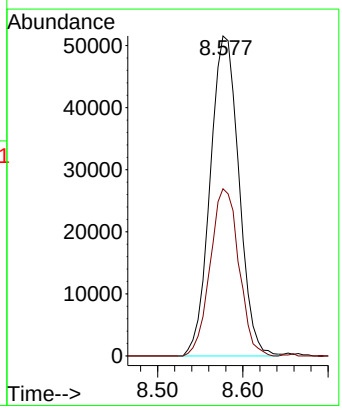


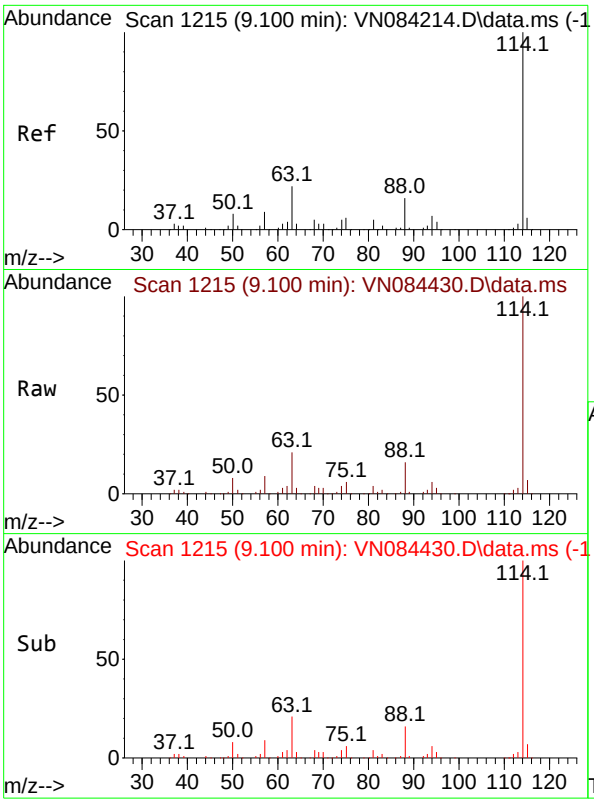


#33
1,2-Dichloroethane-d4
Concen: 48.597 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Tgt Ion: 65 Resp: 120667

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	102.0



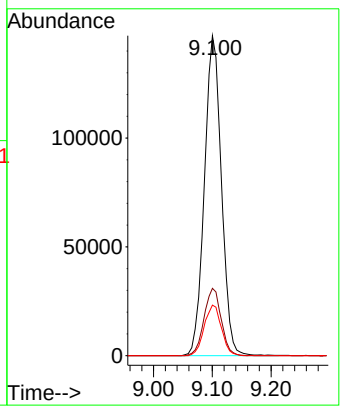


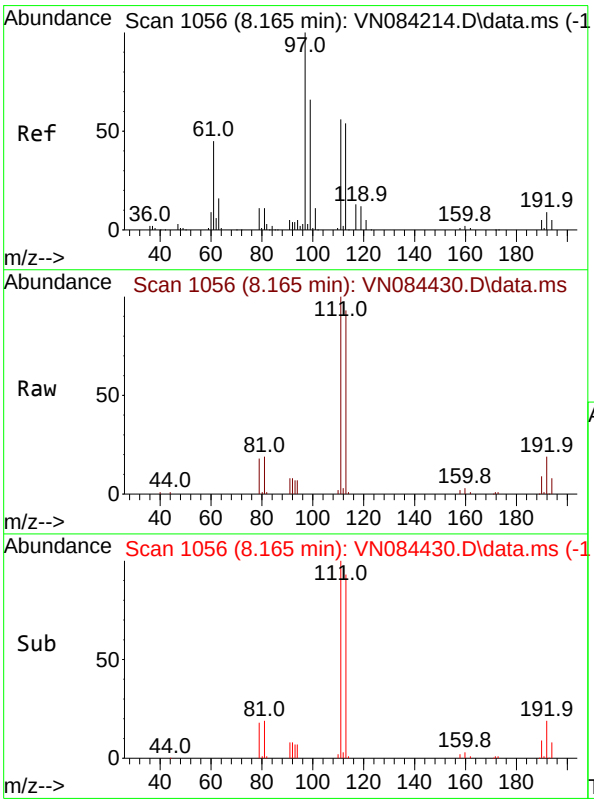
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Tgt Ion:114 Resp: 295479

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	15.8	0.0	31.6

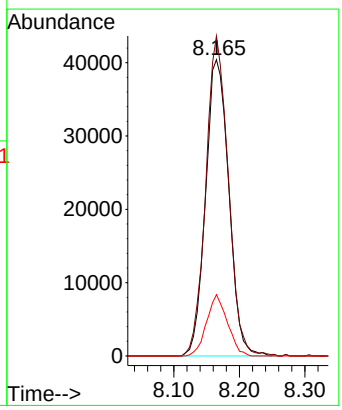


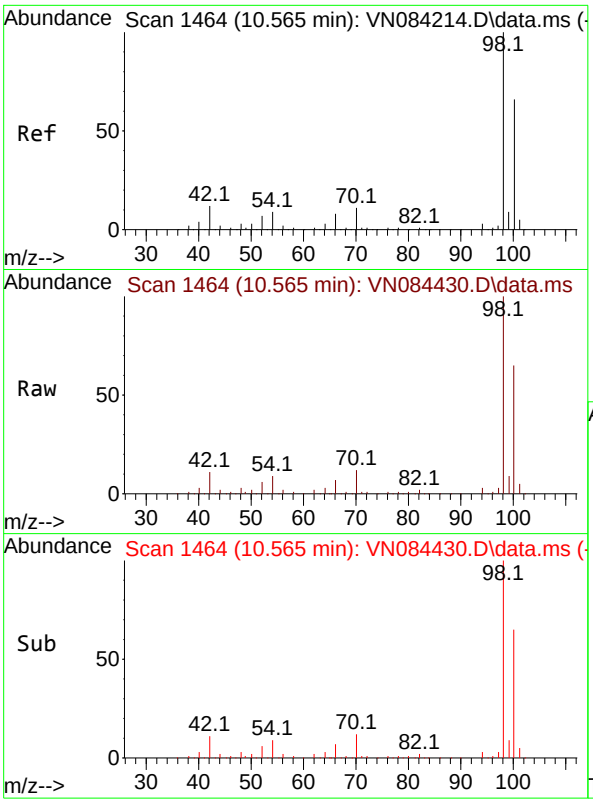


#35
Dibromofluoromethane
Concen: 51.076 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Tgt Ion:113 Resp: 99495

Ion	Ratio	Lower	Upper
113	100		
111	104.6	83.3	124.9
192	18.5	13.5	20.3



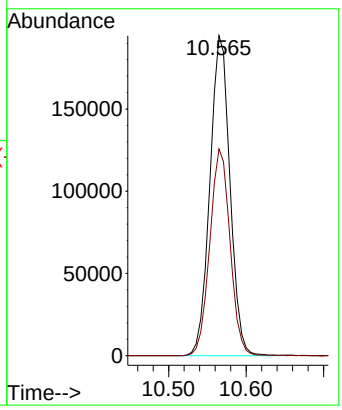


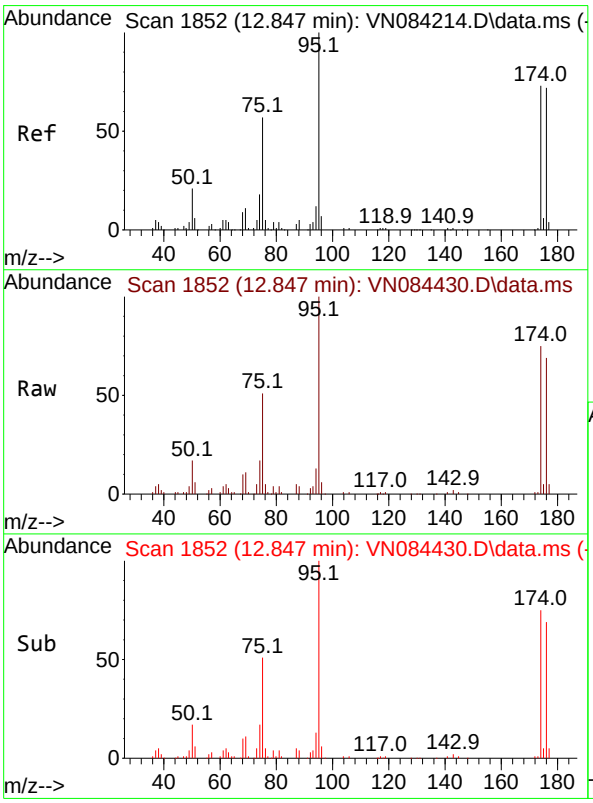
#50
Toluene-d8
Concen: 48.830 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Tgt Ion: 98 Resp: 349958

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.7	79.1

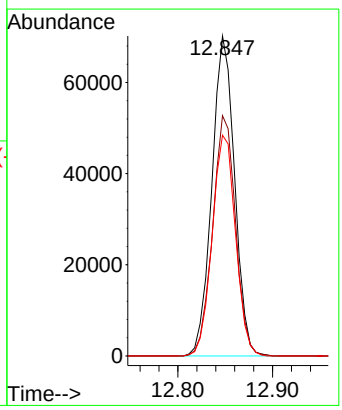


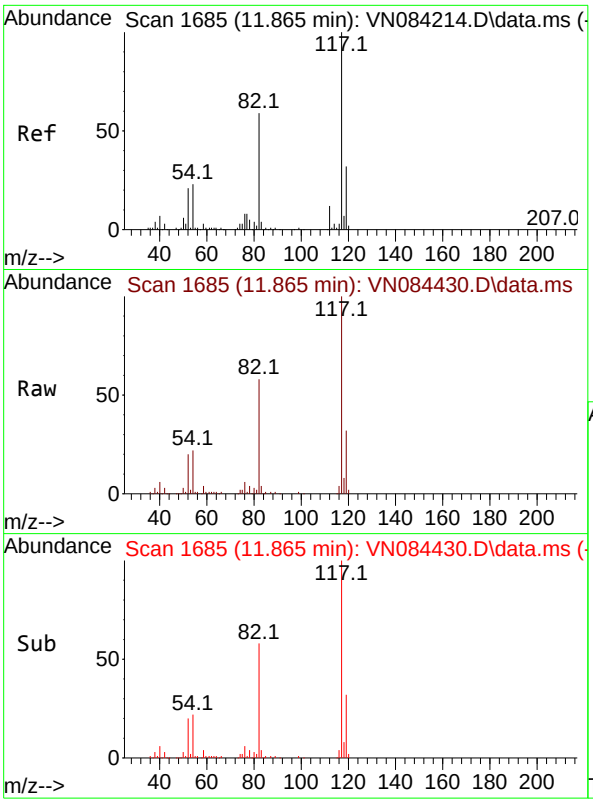


#62
4-Bromofluorobenzene
Concen: 44.690 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Tgt Ion: 95 Resp: 116683

Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	145.2
176	71.0	0.0	140.0



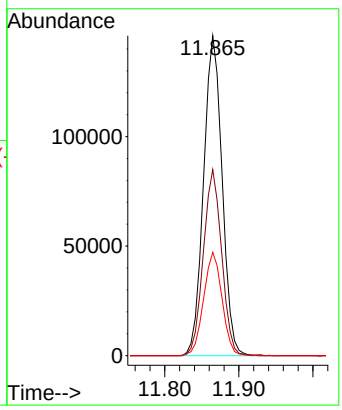


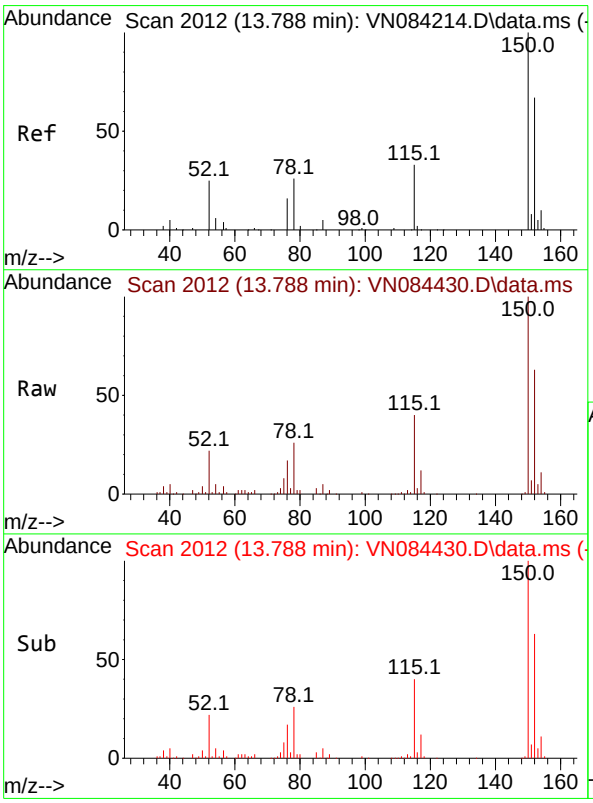
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Tgt Ion:117 Resp: 254088

Ion	Ratio	Lower	Upper
117	100		
82	58.2	47.2	70.8
119	32.3	25.4	38.0

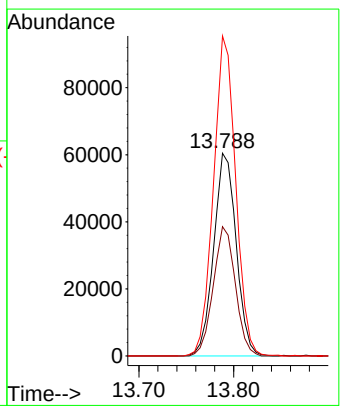




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084430.D
Acq: 21 Oct 2024 12:36

Tgt Ion:152 Resp: 99954

Ion	Ratio	Lower	Upper
152	100		
115	62.6	31.3	93.9
150	155.5	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

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\82N093024W.M
Title : SW846 8260

Signal : TIC: VN084430.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.436	922	932	942	rBV2	4108	10909	1.18%	0.228%
2	8.165	1047	1056	1061	rBV	137448	335323	36.14%	7.019%
3	8.224	1061	1066	1078	rVB	239504	517962	55.83%	10.843%
4	8.577	1118	1126	1137	rBV	143101	329717	35.54%	6.902%
5	9.100	1206	1215	1227	rBV	348480	696007	75.02%	14.570%
6	10.565	1456	1464	1477	rBV	513172	927809	100.00%	19.422%
7	11.865	1677	1685	1700	rVB	450419	783202	84.41%	16.395%
8	12.847	1845	1852	1864	rVB	330020	559221	60.27%	11.706%
9	13.788	2005	2012	2023	rBV	373902	616926	66.49%	12.914%

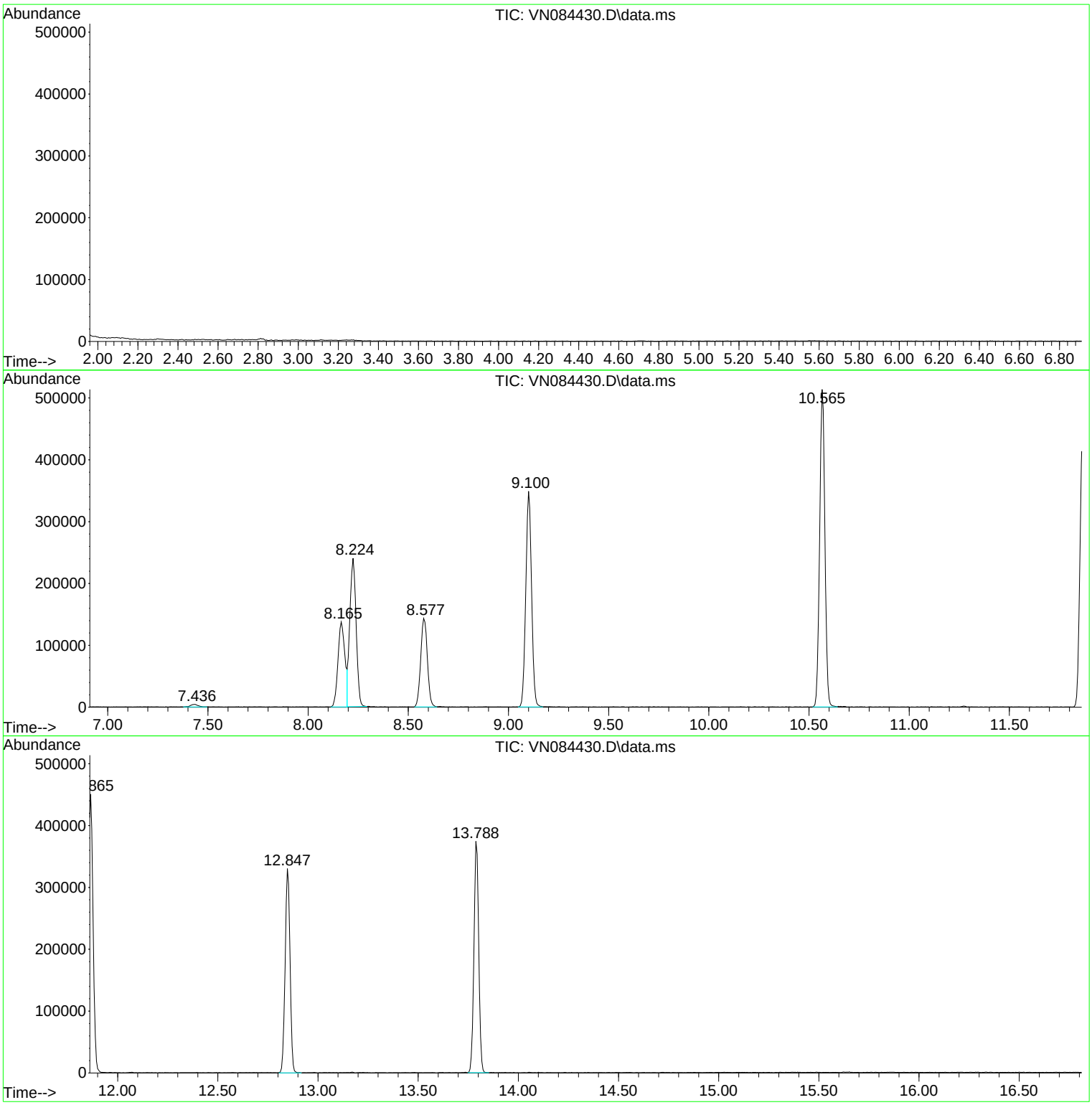
Sum of corrected areas: 4777076

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084430.D
Acq On : 21 Oct 2024 12:36
Operator : JC\MD
Sample : VN1021WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Time: Oct 23 01:24:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	219150	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	450425	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	395647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	132931	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	150698	55.848	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.700%			
35) Dibromofluoromethane	7.634	113	145305	48.886	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.780%			
50) Toluene-d8	10.109	98	554994	50.563	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.120%			
62) 4-Bromofluorobenzene	12.408	95	159930	40.325	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 80.640%			

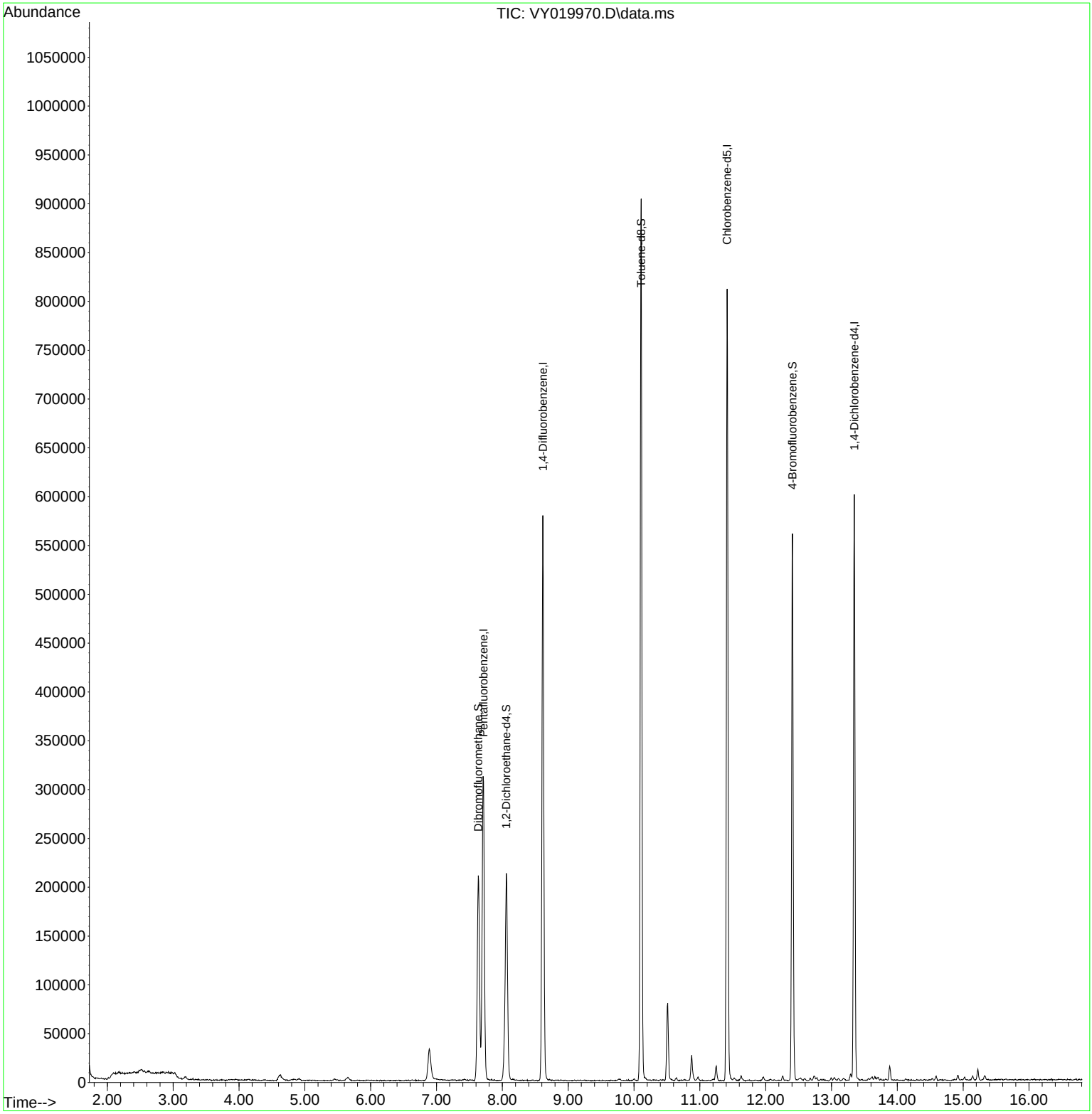
Target Compounds Qvalue

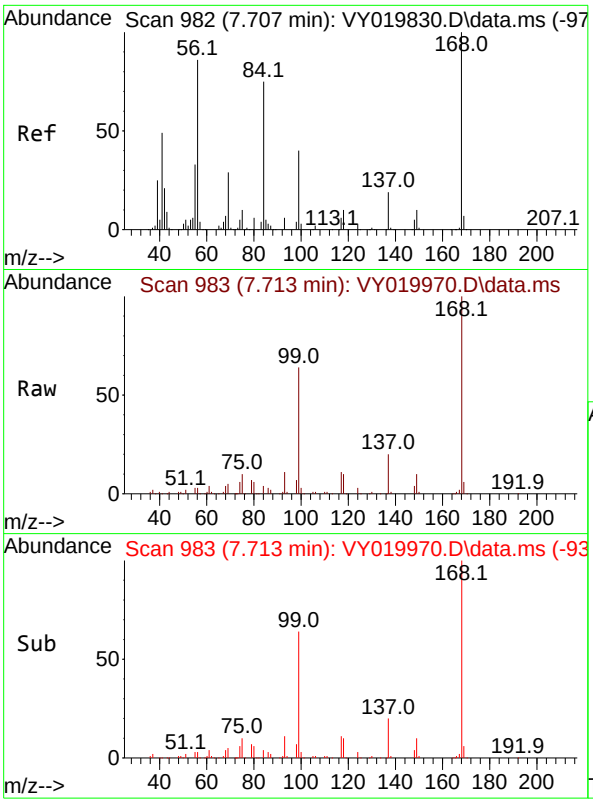
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Time: Oct 23 01:24:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



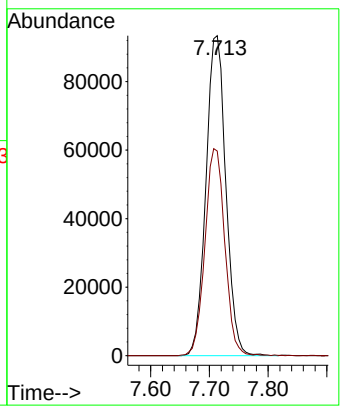


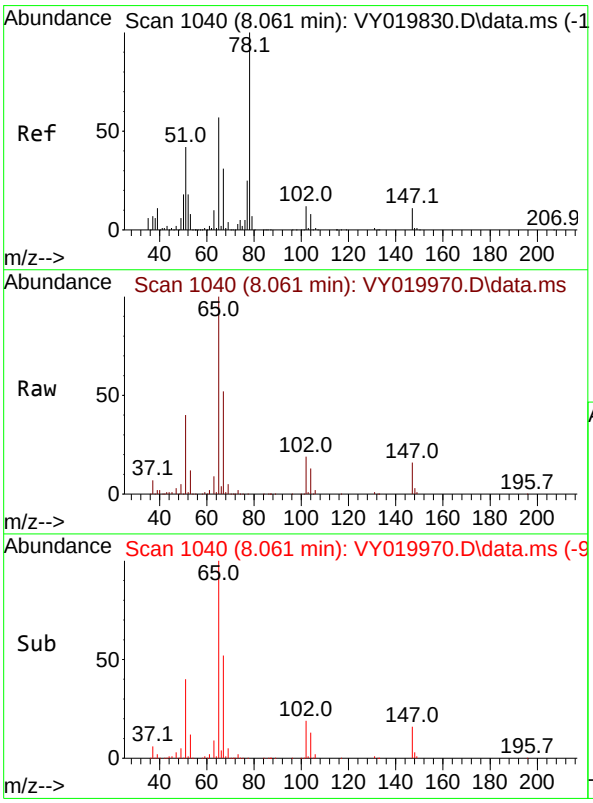
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Tgt Ion:168 Resp: 219150

Ion	Ratio	Lower	Upper
168	100		
99	64.0	39.1	58.7#

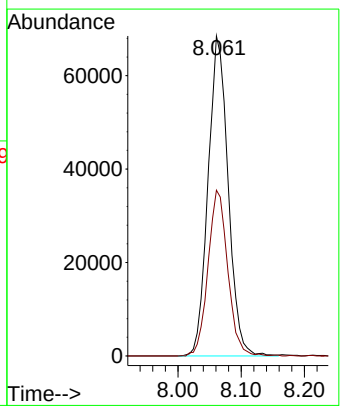


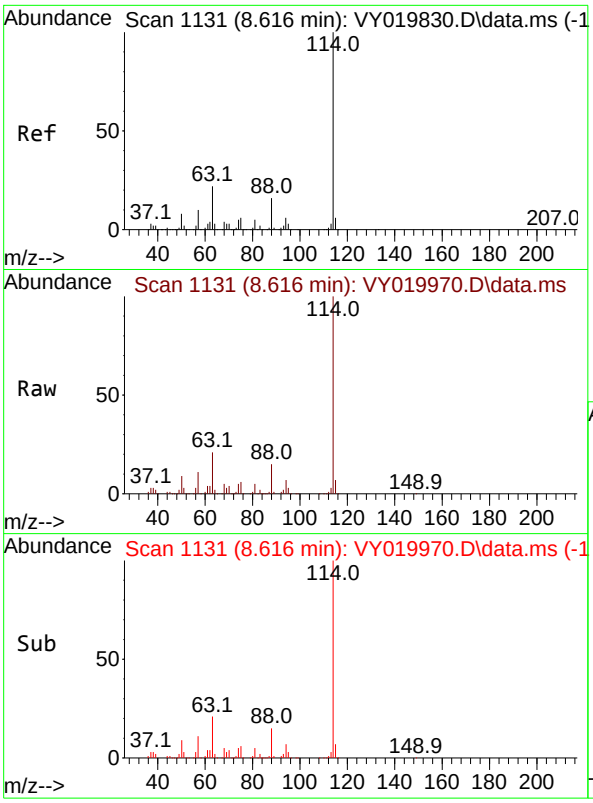


#33
1,2-Dichloroethane-d4
Concen: 55.848 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Tgt Ion: 65 Resp: 150698

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	109.6



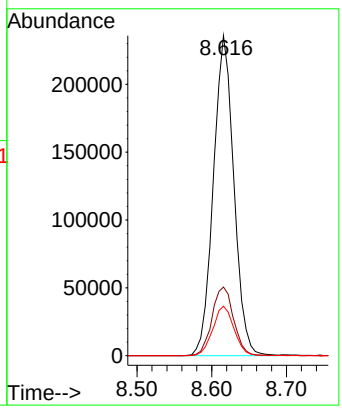


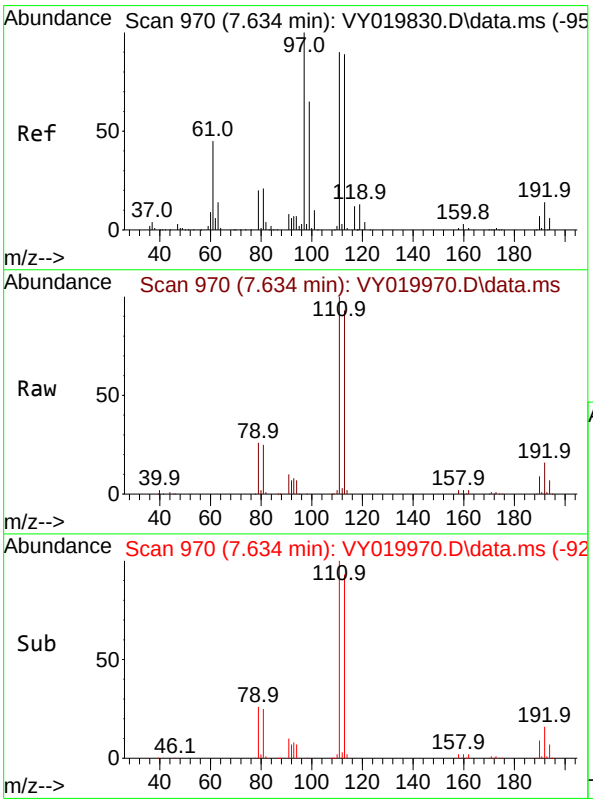
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Tgt Ion:114 Resp: 450425

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	35.0
88	15.5	0.0	27.2

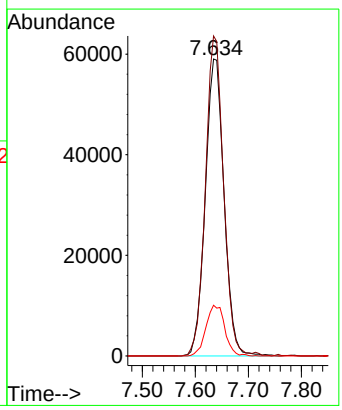


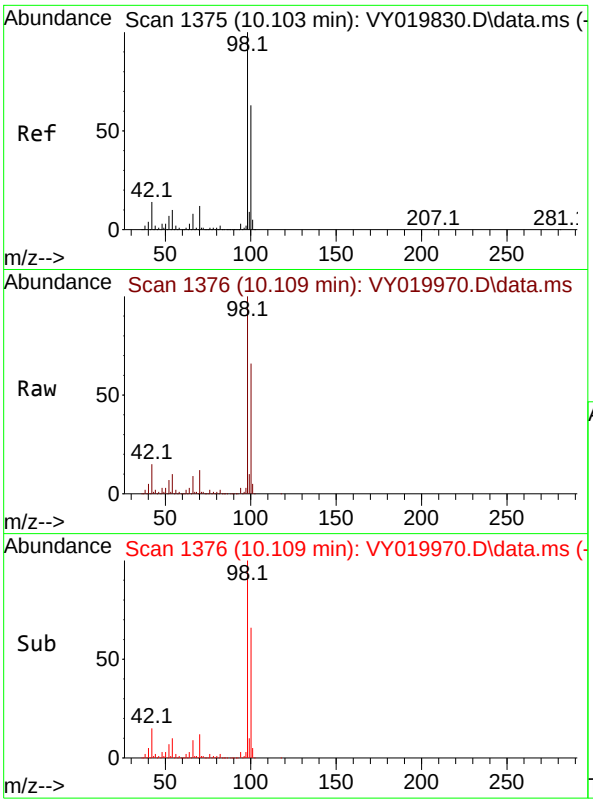


#35
Dibromofluoromethane
Concen: 48.886 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Tgt Ion:113 Resp: 145305

Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.2	123.4
192	17.1	15.9	23.9



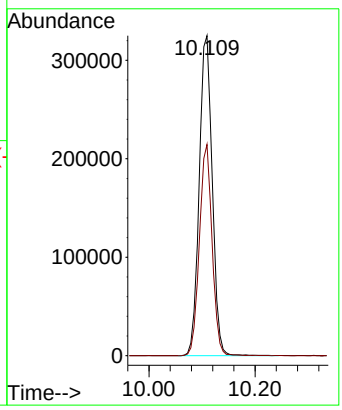


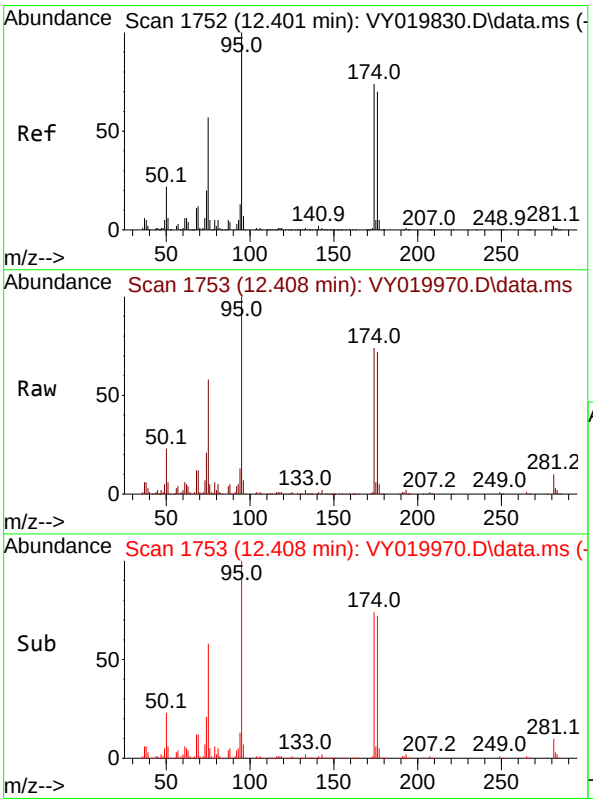
#50
Toluene-d8
Concen: 50.563 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Tgt Ion: 98 Resp: 554994

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.0	78.0

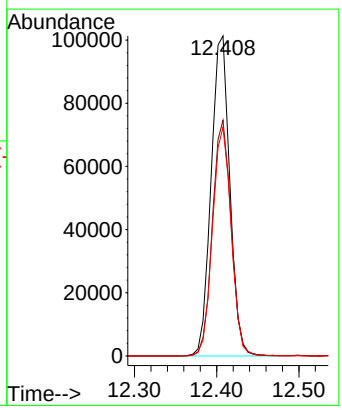


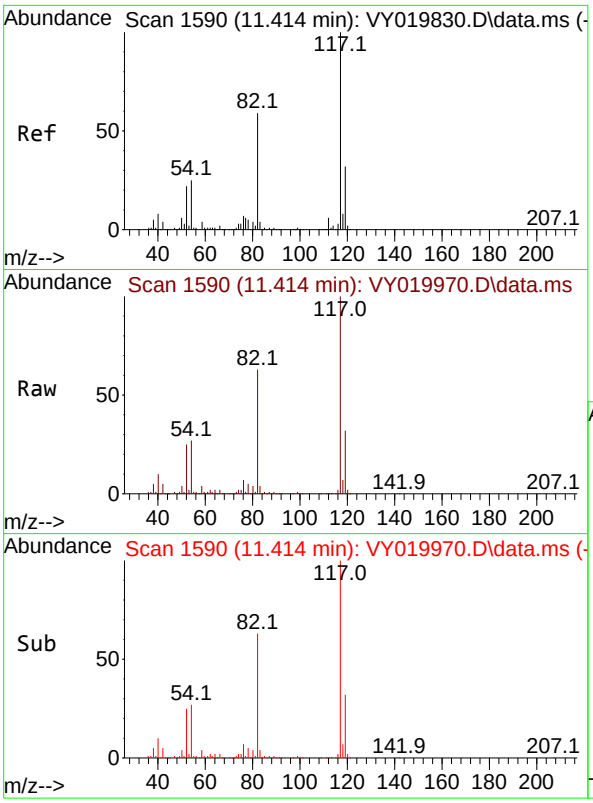


#62
4-Bromofluorobenzene
Concen: 40.325 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Tgt Ion: 95 Resp: 159930

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	175.6
176	71.3	0.0	171.4



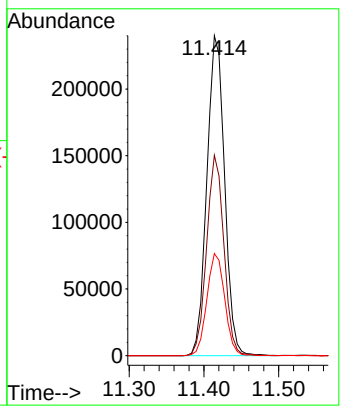


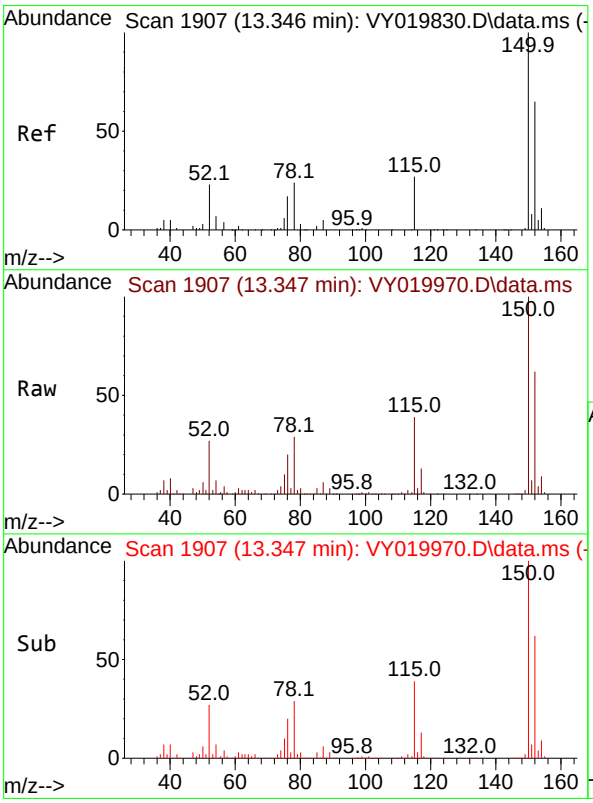
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Tgt Ion:117 Resp: 395647

Ion	Ratio	Lower	Upper
117	100		
82	62.6	42.4	63.6
119	31.9	25.9	38.9

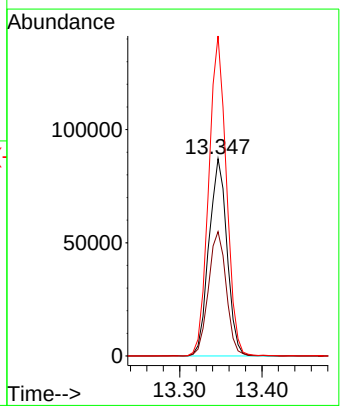




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019970.D
Acq: 22 Oct 2024 10:36

Tgt Ion:152 Resp: 132931

Ion	Ratio	Lower	Upper
152	100		
115	62.3	28.2	84.7
150	158.7	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

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\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY019970.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	2.092	50	61	65	rBV5	5719	19578	1.27%	0.244%
2	6.890	836	848	862	rBV	32414	107177	6.98%	1.335%
3	7.634	960	970	976	rBV	210336	504737	32.86%	6.287%
4	7.707	976	982	993	rVB	310616	721755	46.98%	8.991%
5	8.061	1025	1040	1052	rBV2	212210	537568	34.99%	6.696%
6	8.616	1121	1131	1145	rBV	578997	1125141	73.24%	14.015%
7	10.109	1368	1376	1384	rBV	903209	1536236	100.00%	19.136%
8	10.512	1434	1442	1450	rBV	79596	146640	9.55%	1.827%
9	10.877	1496	1502	1510	rVB2	25665	45490	2.96%	0.567%
10	11.249	1558	1563	1568	rVB	14826	25408	1.65%	0.316%
11	11.414	1582	1590	1599	rBV	811204	1341171	87.30%	16.706%
12	12.408	1742	1753	1762	rBV2	560356	942002	61.32%	11.734%
13	13.347	1901	1907	1920	rVB	600058	933703	60.78%	11.631%
14	13.883	1990	1995	2001	rVB2	14312	23146	1.51%	0.288%
15	15.224	2209	2215	2222	rVB2	11407	18113	1.18%	0.226%

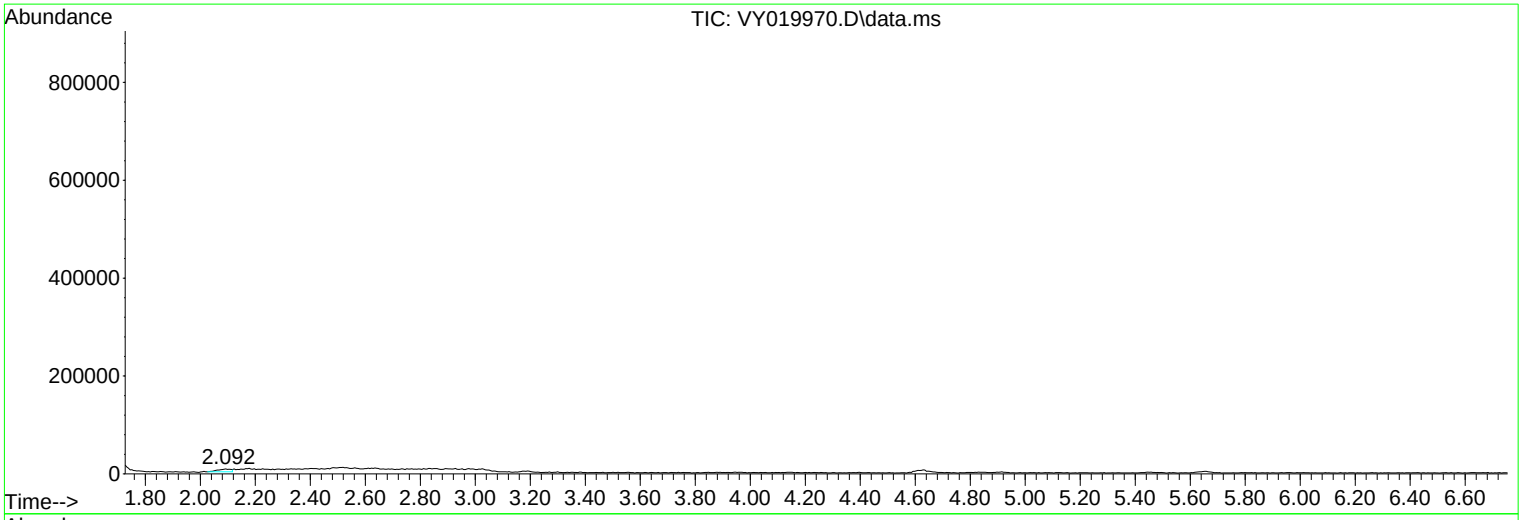
Sum of corrected areas: 8027865

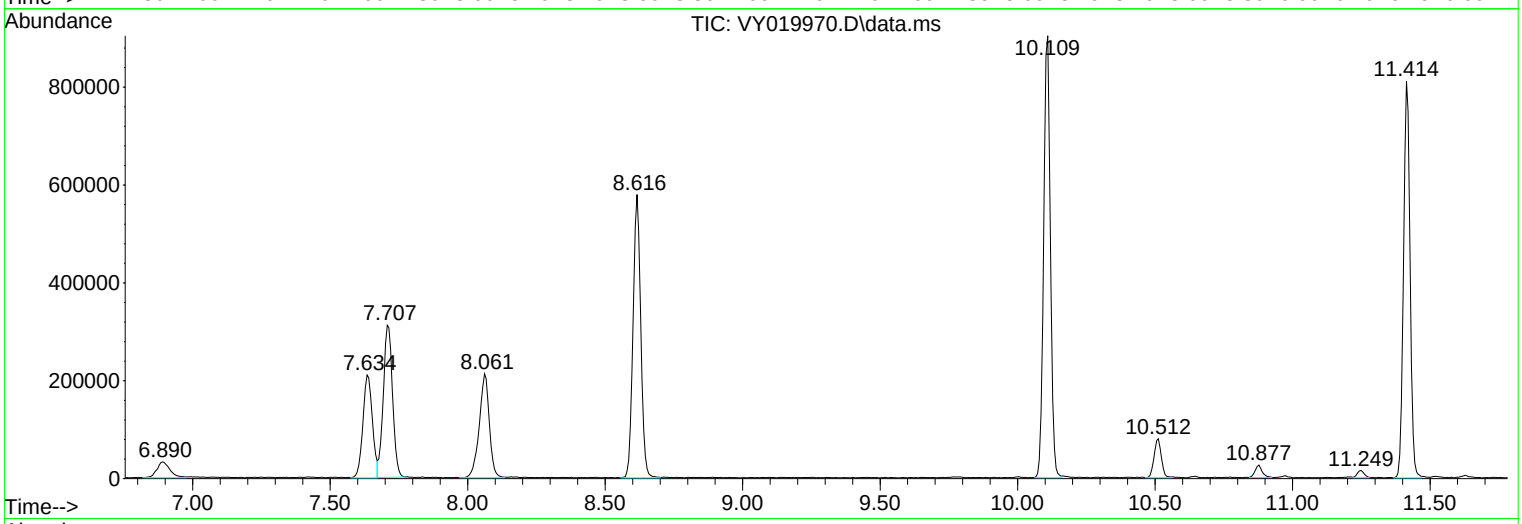
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

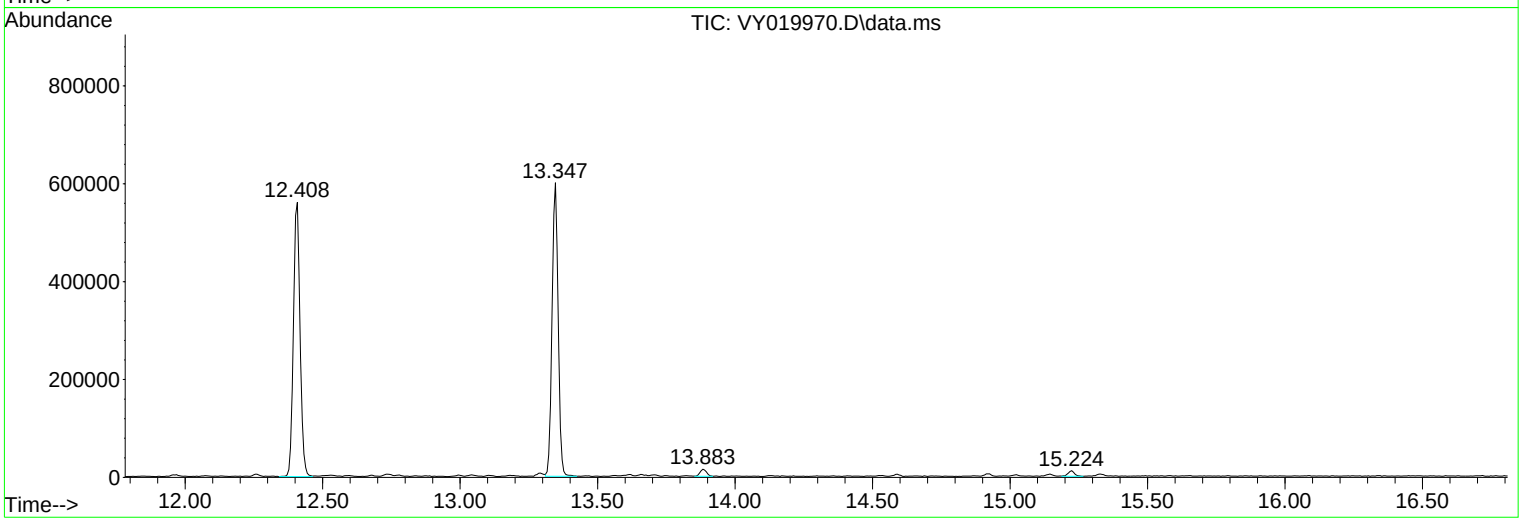
Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VY102224\
Data File : VY019970.D
Acq On : 22 Oct 2024 10:36
Operator : SY/MD
Sample : VY1022SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Time: Oct 23 23:04:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	239192	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	486232	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	427644	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	145538	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	158528	53.827	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.660%			
35) Dibromofluoromethane	7.634	113	160195	49.927	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.860%			
50) Toluene-d8	10.103	98	595787	50.282	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.560%			
62) 4-Bromofluorobenzene	12.408	95	179787	41.993	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 83.980%			

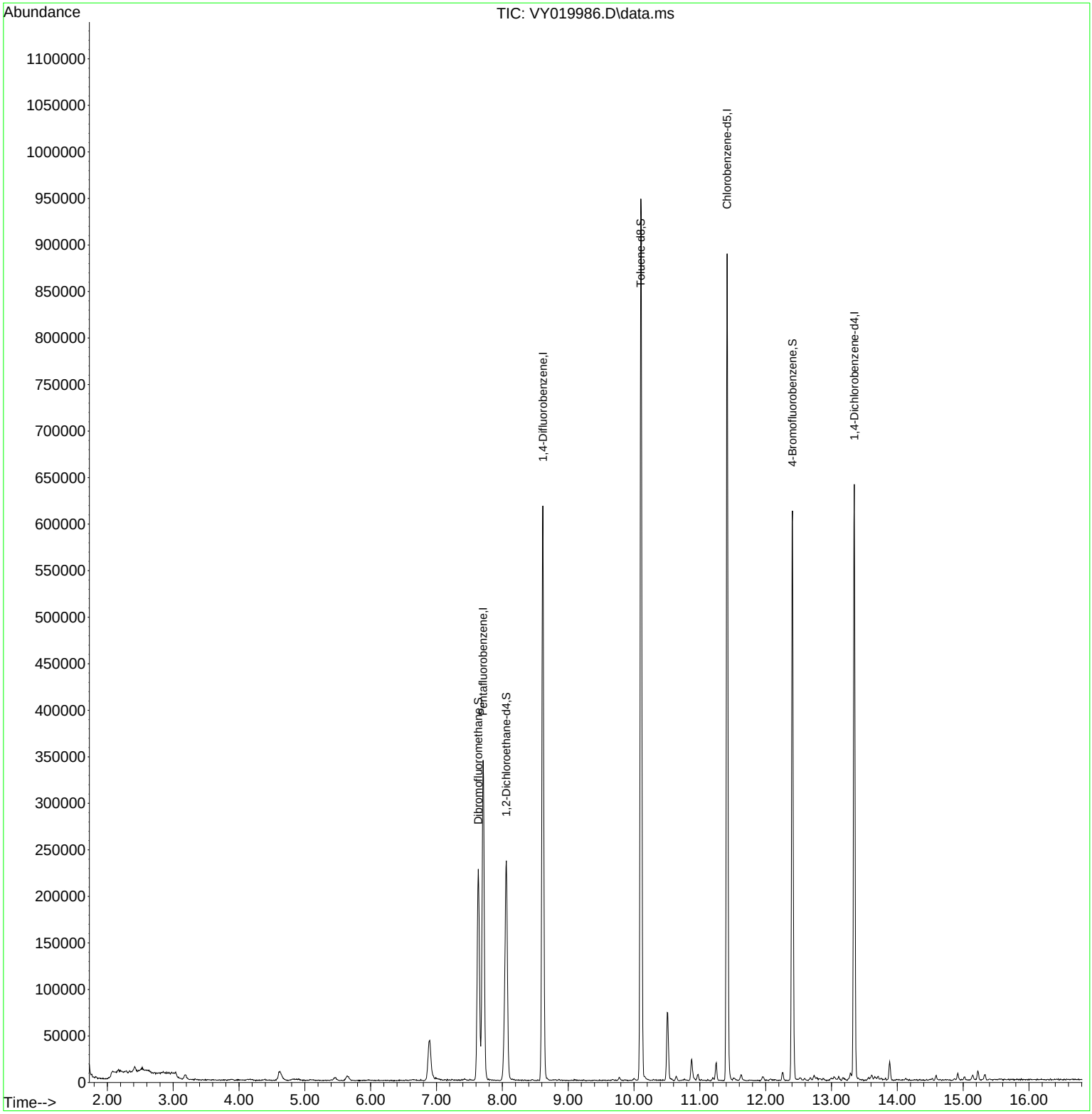
Target Compounds Qvalue

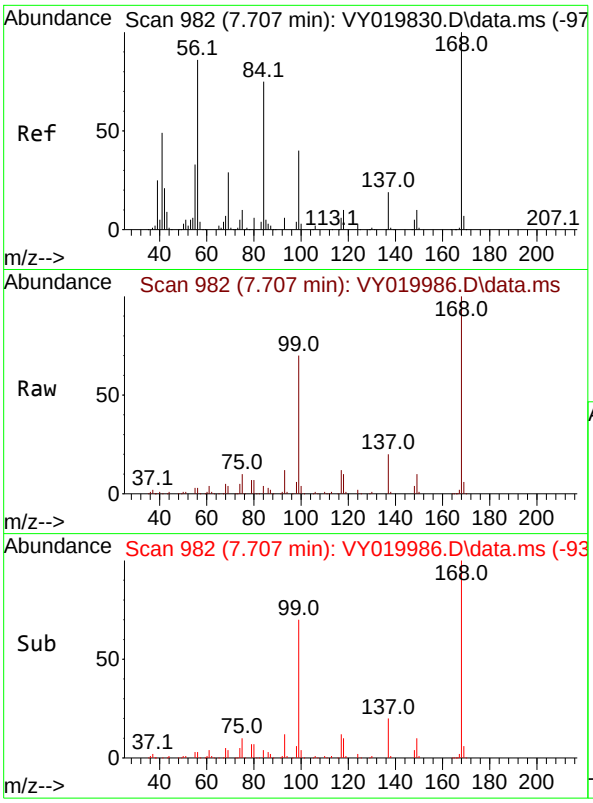
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Time: Oct 23 23:04:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration



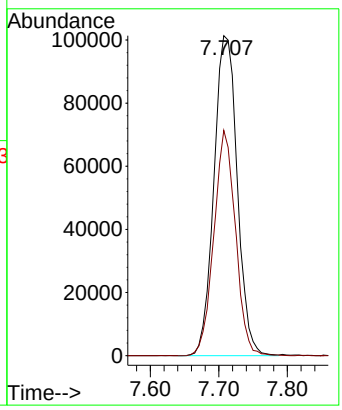


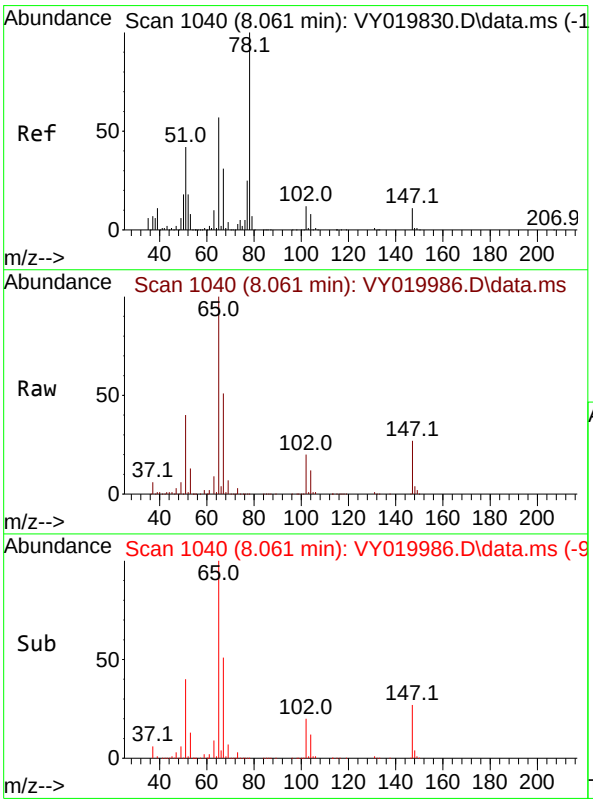
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Tgt Ion:168 Resp: 239192

Ion	Ratio	Lower	Upper
168	100		
99	70.4	39.1	58.7#

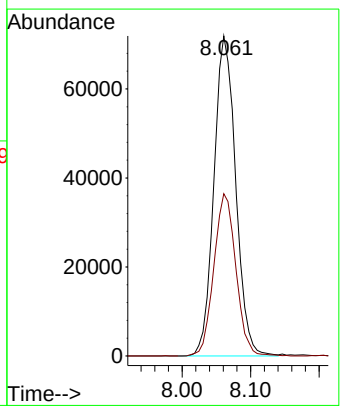


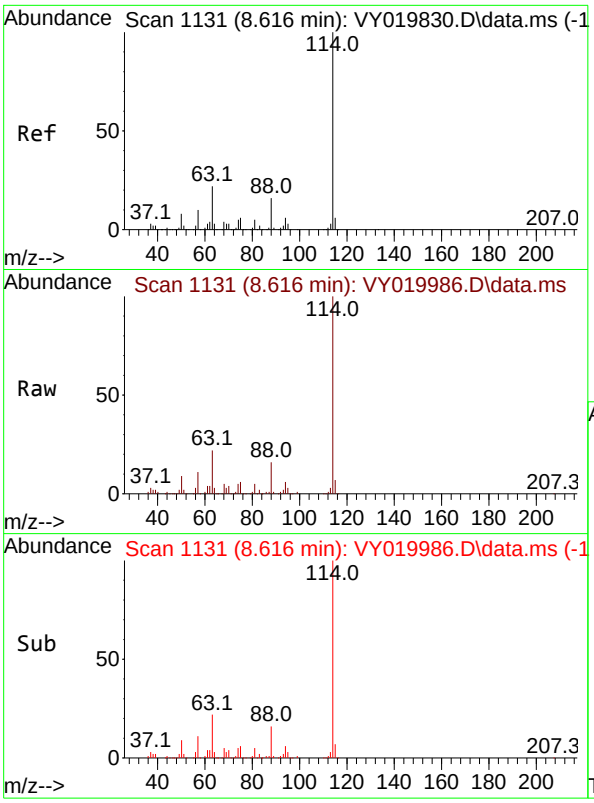


#33
1,2-Dichloroethane-d4
Concen: 53.827 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Tgt Ion: 65 Resp: 158528

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	109.6



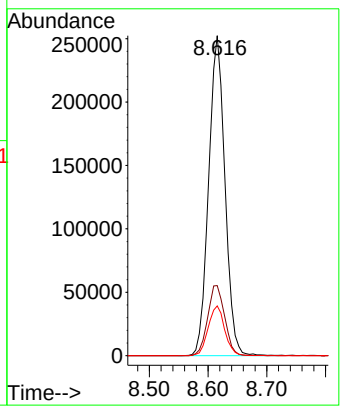


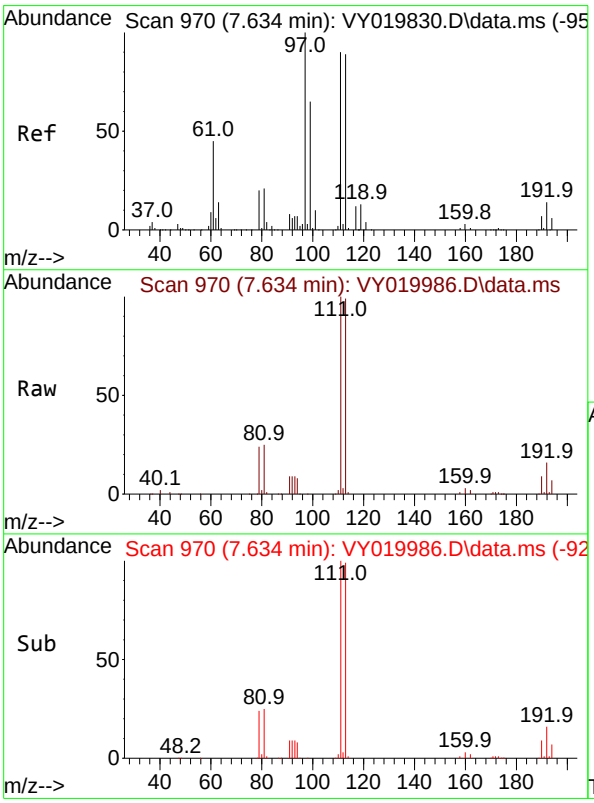
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Tgt Ion:114 Resp: 486232

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	35.0
88	15.5	0.0	27.2

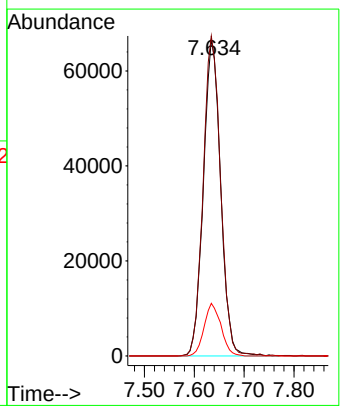


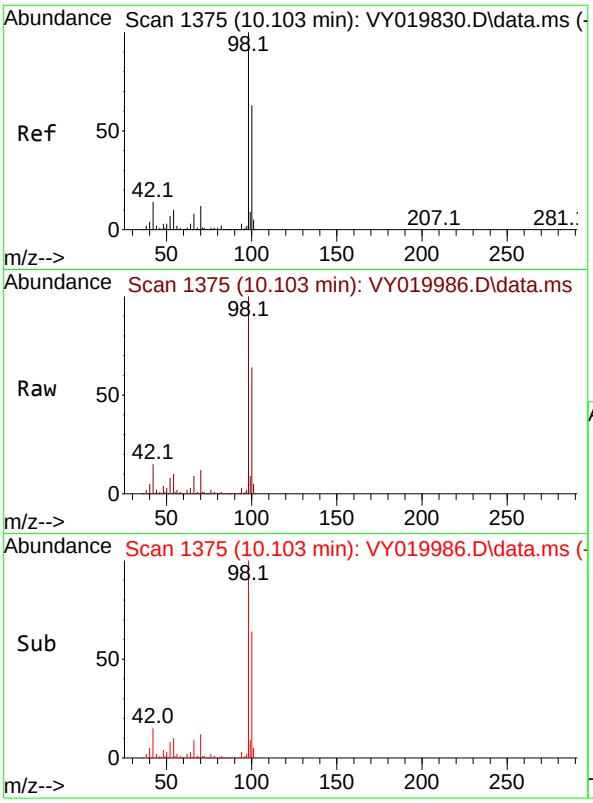


#35
Dibromofluoromethane
Concen: 49.927 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Tgt Ion:113 Resp: 160195

Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.2	123.4
192	16.3	15.9	23.9



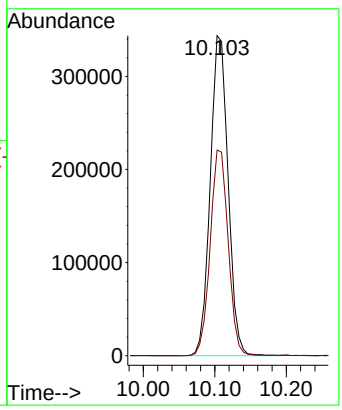


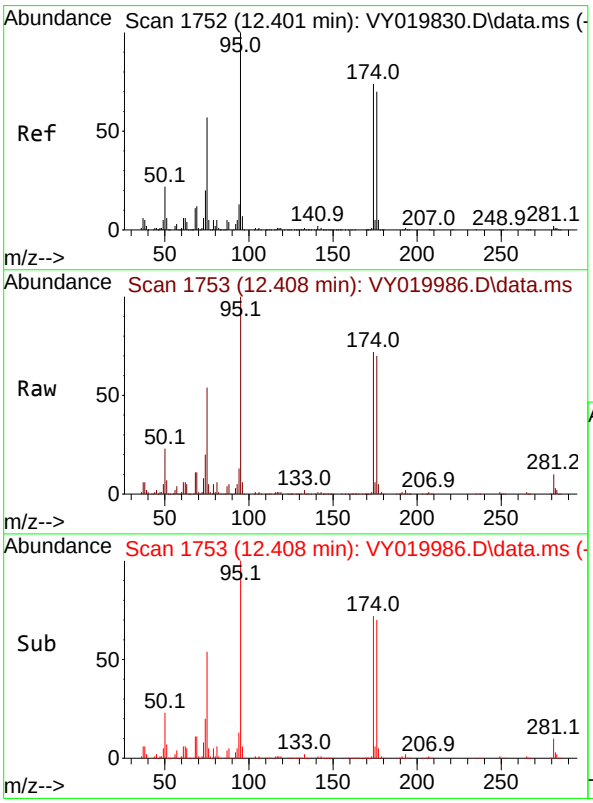
#50
Toluene-d8
Concen: 50.282 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Tgt Ion: 98 Resp: 595787

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.0	78.0

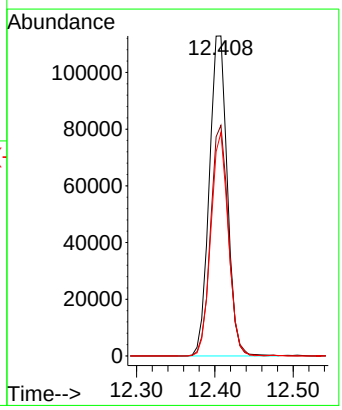


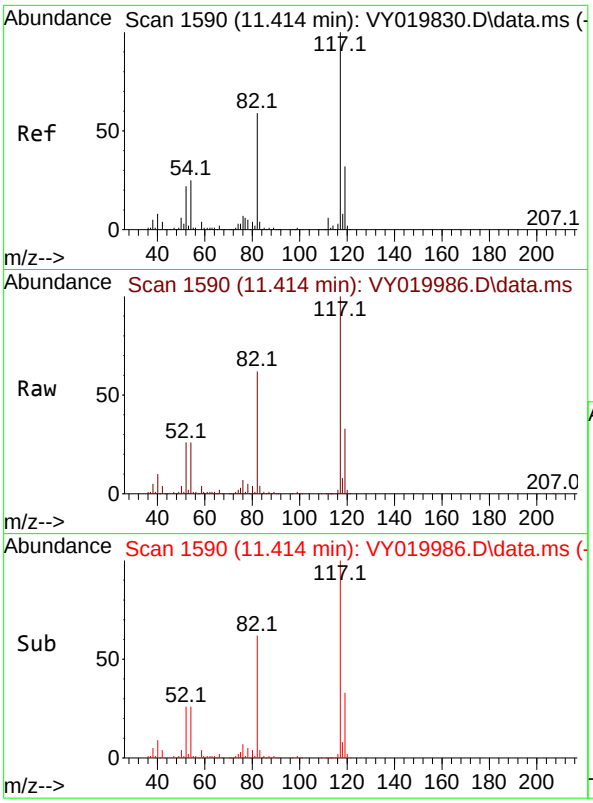


#62
4-Bromofluorobenzene
Concen: 41.993 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Tgt Ion: 95 Resp: 179787

Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	175.6
176	67.8	0.0	171.4



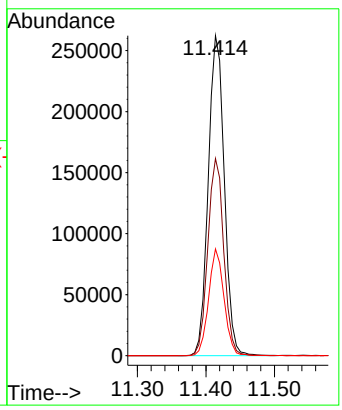


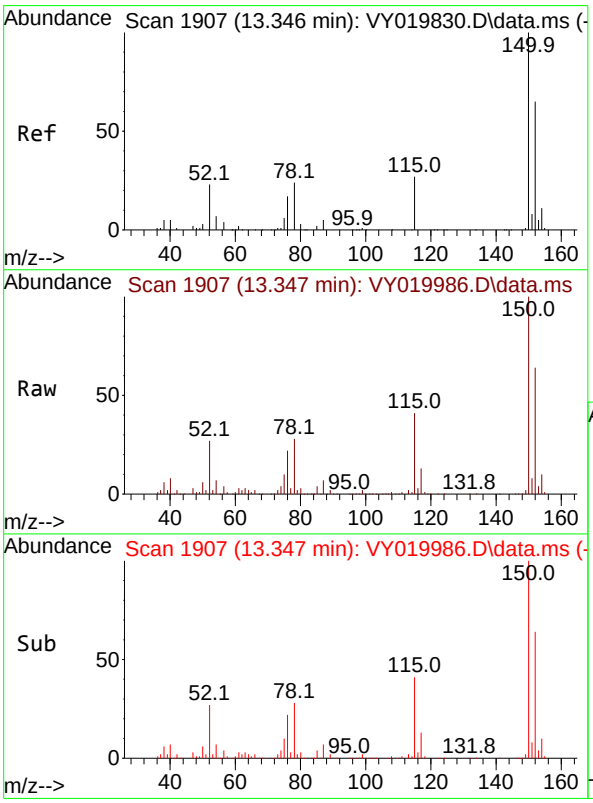
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Tgt Ion:117 Resp: 427644

Ion	Ratio	Lower	Upper
117	100		
82	61.6	42.4	63.6
119	33.3	25.9	38.9

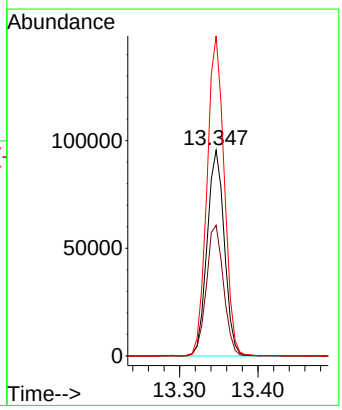




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019986.D
Acq: 23 Oct 2024 11:35

Tgt Ion:152 Resp: 145538

Ion	Ratio	Lower	Upper
152	100		
115	63.6	28.2	84.7
150	155.6	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

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\82Y100924S.M
Title : SW846 8260

Signal : TIC: VY019986.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	46	59	62	rBV9	8295	25780	1.56%	0.294%
2	6.896	834	849	862	rBV	43709	151733	9.17%	1.730%
3	7.634	960	970	976	rBV	226787	540422	32.67%	6.163%
4	7.707	976	982	994	rVB	343585	783314	47.36%	8.933%
5	8.061	1022	1040	1053	rBV2	236327	649351	39.26%	7.405%
6	8.616	1123	1131	1140	rBV	617660	1210565	73.18%	13.805%
7	10.103	1367	1375	1384	rBV	946967	1654124	100.00%	18.863%
8	10.506	1434	1441	1451	rBV	72864	142236	8.60%	1.622%
9	10.877	1493	1502	1512	rBV4	22859	46203	2.79%	0.527%
10	11.249	1558	1563	1570	rVB	18939	30456	1.84%	0.347%
11	11.414	1582	1590	1603	rBV	888851	1444498	87.33%	16.473%
12	12.408	1745	1753	1762	rBV2	611747	1035224	62.58%	11.806%
13	13.347	1900	1907	1915	rVB	638993	1003727	60.68%	11.446%
14	13.883	1987	1995	2001	rVB2	20104	34051	2.06%	0.388%
15	15.224	2209	2215	2221	rVV4	9902	17287	1.05%	0.197%

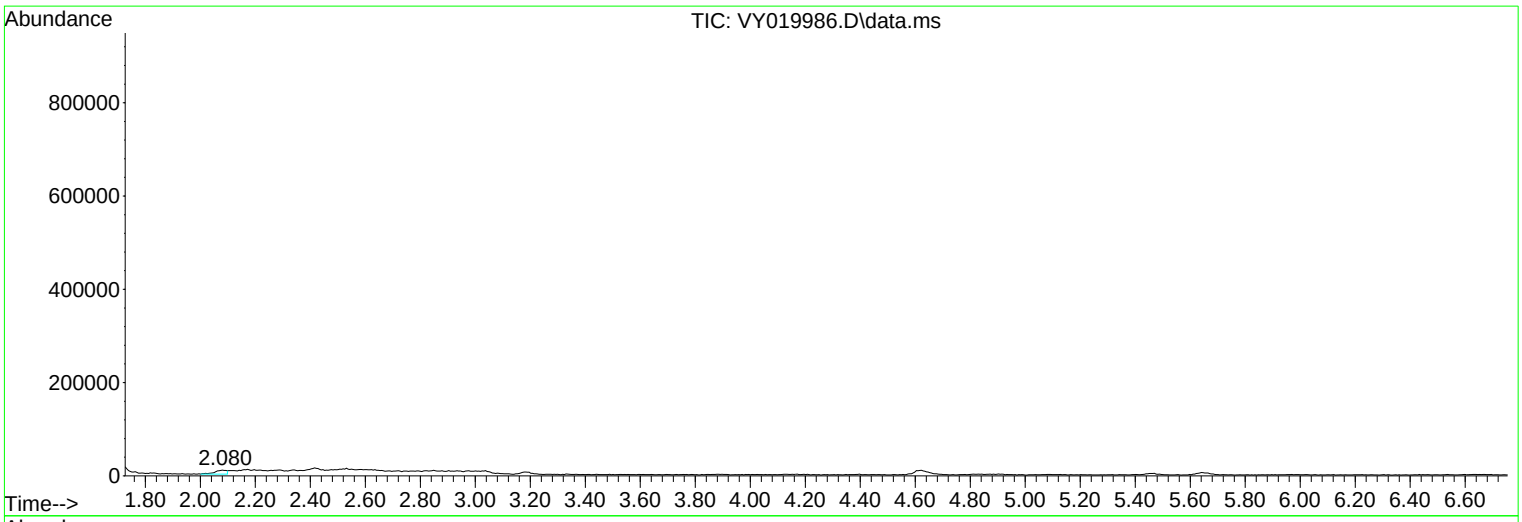
Sum of corrected areas: 8768971

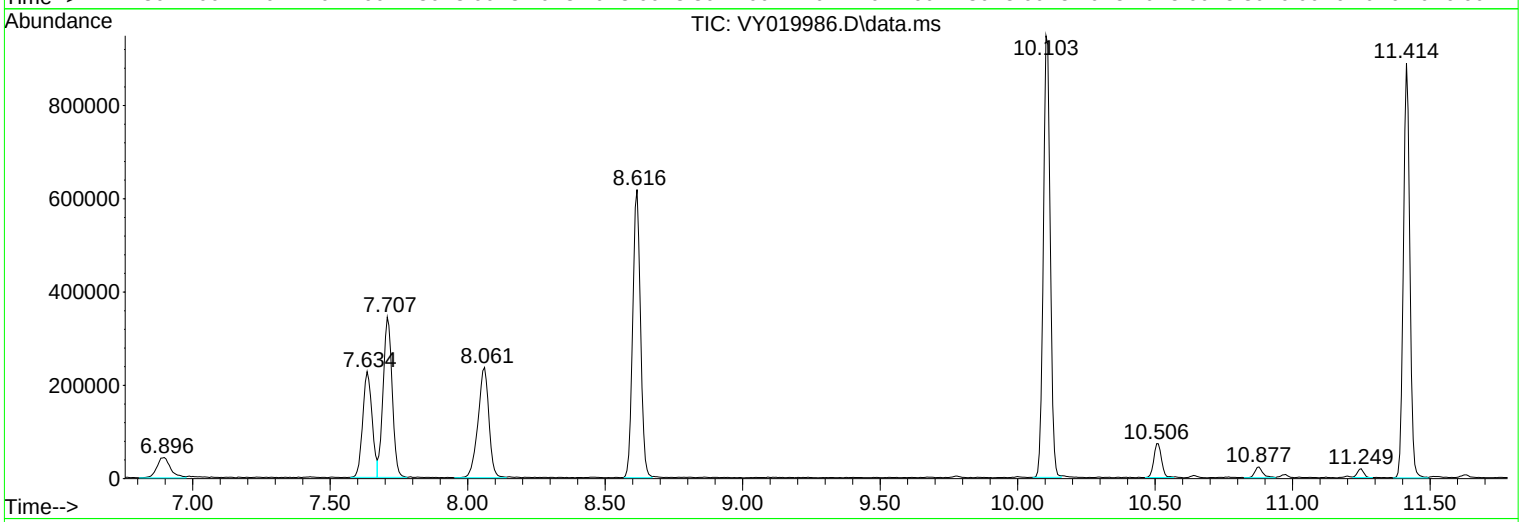
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

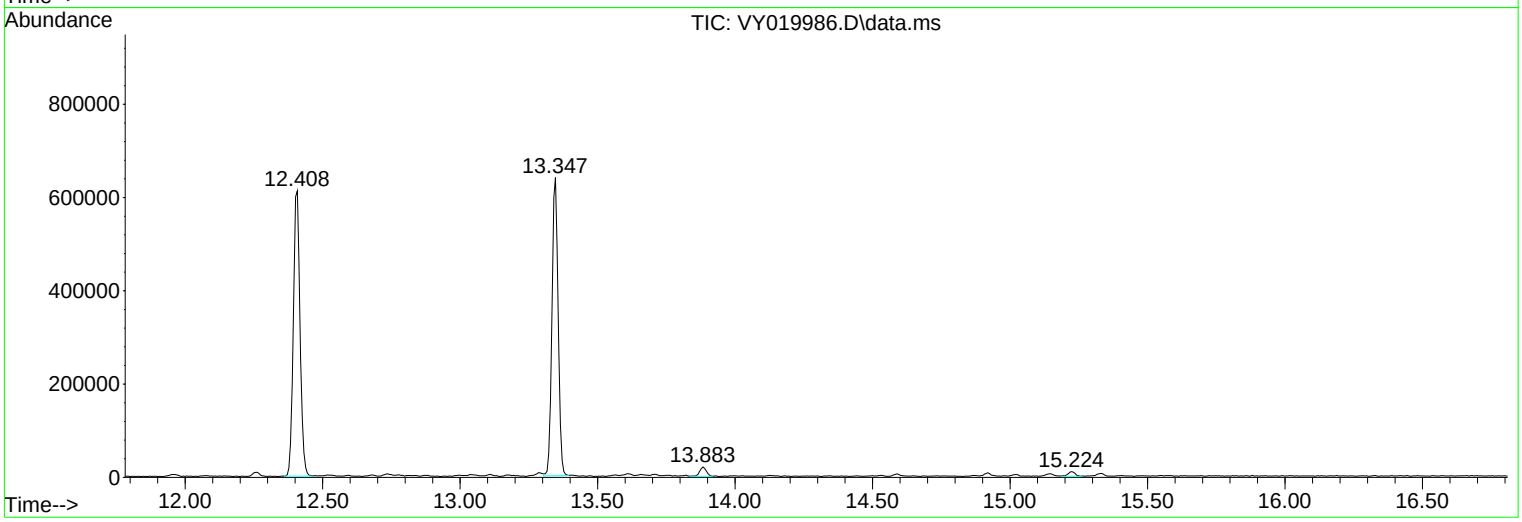
Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VY102324\
Data File : VY019986.D
Acq On : 23 Oct 2024 11:35
Operator : SY/MD
Sample : VY1023SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.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\VN102124\
Data File : VN084433.D
Acq On : 21 Oct 2024 13:48
Operator : JC\MD
Sample : VN1021WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 01:32:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	189913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	322919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	284161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138325	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	142332	50.547	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.100%			
35) Dibromofluoromethane	8.165	113	115508	54.258	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.520%			
50) Toluene-d8	10.565	98	422532	53.947	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.900%			
62) 4-Bromofluorobenzene	12.847	95	149865	52.521	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	36261	16.142	ug/l	95
3) Chloromethane	2.359	50	41235	16.076	ug/l	96
4) Vinyl Chloride	2.512	62	41507	16.706	ug/l	100
5) Bromomethane	2.953	94	26963	16.453	ug/l	98
6) Chloroethane	3.124	64	26726	15.020	ug/l	99
7) Trichlorofluoromethane	3.500	101	70146	18.131	ug/l	98
8) Diethyl Ether	3.965	74	24127	16.814	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.377	101	40161	18.116	ug/l	98
10) Methyl Iodide	4.589	142	48908	17.131	ug/l	96
11) Tert butyl alcohol	5.518	59	36415	78.429	ug/l #	94
12) 1,1-Dichloroethene	4.342	96	37659	17.612	ug/l	97
13) Acrolein	4.183	56	26602	49.907	ug/l	98
14) Allyl chloride	5.024	41	58352	15.713	ug/l	98
15) Acrylonitrile	5.718	53	109279	93.202	ug/l	99
16) Acetone	4.430	43	105837	87.496	ug/l	96
17) Carbon Disulfide	4.712	76	96169	14.205	ug/l	100
18) Methyl Acetate	5.030	43	59251	22.474	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	130984	18.149	ug/l	98
20) Methylene Chloride	5.271	84	45743	18.603	ug/l	91
21) trans-1,2-Dichloroethene	5.789	96	38888	17.359	ug/l	95
22) Diisopropyl ether	6.671	45	141732	18.451	ug/l	98
23) Vinyl Acetate	6.600	43	468614	82.252	ug/l	98
24) 1,1-Dichloroethane	6.571	63	82481	19.201	ug/l	97
25) 2-Butanone	7.483	43	146074	88.663	ug/l	98
26) 2,2-Dichloropropane	7.488	77	71005	18.333	ug/l	98
27) cis-1,2-Dichloroethene	7.494	96	49184	18.169	ug/l	98
28) Bromochloromethane	7.812	49	37550	19.592	ug/l	97
29) Tetrahydrofuran	7.841	42	90421	88.935	ug/l	98
30) Chloroform	7.971	83	84755	18.995	ug/l	100
31) Cyclohexane	8.259	56	66762	16.007	ug/l #	97
32) 1,1,1-Trichloroethane	8.171	97	74940	18.700	ug/l	97
36) 1,1-Dichloropropene	8.371	75	56161	18.162	ug/l	97
37) Ethyl Acetate	7.559	43	57455	18.111	ug/l	99
38) Carbon Tetrachloride	8.365	117	64152	18.912	ug/l	94
39) Methylcyclohexane	9.600	83	55643	16.168	ug/l	96
40) Benzene	8.606	78	183073	19.002	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084433.D
Acq On : 21 Oct 2024 13:48
Operator : JC\MD
Sample : VN1021WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 01:32:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	29860	17.338	ug/l		93
42) 1,2-Dichloroethane	8.671	62	61753	18.907	ug/l		99
43) Isopropyl Acetate	8.688	43	94050	15.136	ug/l		98
44) Trichloroethene	9.347	130	43127	19.166	ug/l		98
45) 1,2-Dichloropropane	9.624	63	44771	19.644	ug/l		98
46) Dibromomethane	9.706	93	31378	20.401	ug/l		96
47) Bromodichloromethane	9.888	83	66599	19.490	ug/l		96
48) Methyl methacrylate	9.682	41	43352	17.526	ug/l		98
49) 1,4-Dioxane	9.694	88	16997	373.245	ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	292338	96.801	ug/l		100
52) Toluene	10.629	92	114864	19.551	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	64356	18.476	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	70777	18.891	ug/l		96
55) 1,1,2-Trichloroethane	11.012	97	43053	20.441	ug/l		97
56) Ethyl methacrylate	10.871	69	65255	18.829	ug/l		96
57) 1,3-Dichloropropane	11.165	76	74113	19.693	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	139755	86.930	ug/l		98
59) 2-Hexanone	11.194	43	216944	96.112	ug/l		99
60) Dibromochloromethane	11.359	129	50030	20.104	ug/l		99
61) 1,2-Dibromoethane	11.465	107	41569	18.994	ug/l		98
64) Tetrachloroethene	11.100	164	37454	18.924	ug/l		95
65) Chlorobenzene	11.888	112	121076	19.217	ug/l		94
66) 1,1,1,2-Tetrachloroethane	11.959	131	43109	19.865	ug/l		99
67) Ethyl Benzene	11.965	91	205793	18.470	ug/l		100
68) m/p-Xylenes	12.070	106	158675	38.498	ug/l		100
69) o-Xylene	12.400	106	78180	20.049	ug/l		96
70) Styrene	12.412	104	129069	19.541	ug/l		99
71) Bromoform	12.576	173	31202	19.529	ug/l	#	95
73) Isopropylbenzene	12.694	105	191996	18.189	ug/l		98
74) N-amyl acetate	12.494	43	79653	16.664	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	61726	19.448	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	58038m	20.552	ug/l		
77) Bromobenzene	12.982	156	48284	18.964	ug/l		95
78) n-propylbenzene	13.035	91	231176	18.903	ug/l		99
79) 2-Chlorotoluene	13.123	91	145730	18.674	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	168330	19.550	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	19953	16.940	ug/l		98
82) 4-Chlorotoluene	13.217	91	149766	19.064	ug/l		100
83) tert-Butylbenzene	13.435	119	141261	18.459	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	169548	19.547	ug/l		99
85) sec-Butylbenzene	13.617	105	195385	19.133	ug/l		99
86) p-Isopropyltoluene	13.729	119	161505	19.125	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	88692	18.569	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	90608	18.784	ug/l		99
89) n-Butylbenzene	14.053	91	132089	17.250	ug/l		99
90) Hexachloroethane	14.329	117	31571	18.419	ug/l		97
91) 1,2-Dichlorobenzene	14.106	146	85799	18.319	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11177	17.065	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	40526	17.567	ug/l		100
94) Hexachlorobutadiene	15.500	225	19271	16.751	ug/l		98
95) Naphthalene	15.641	128	119595	15.638	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	39826	17.247	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084433.D
Acq On : 21 Oct 2024 13:48
Operator : JC\MD
Sample : VN1021WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 01:32:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

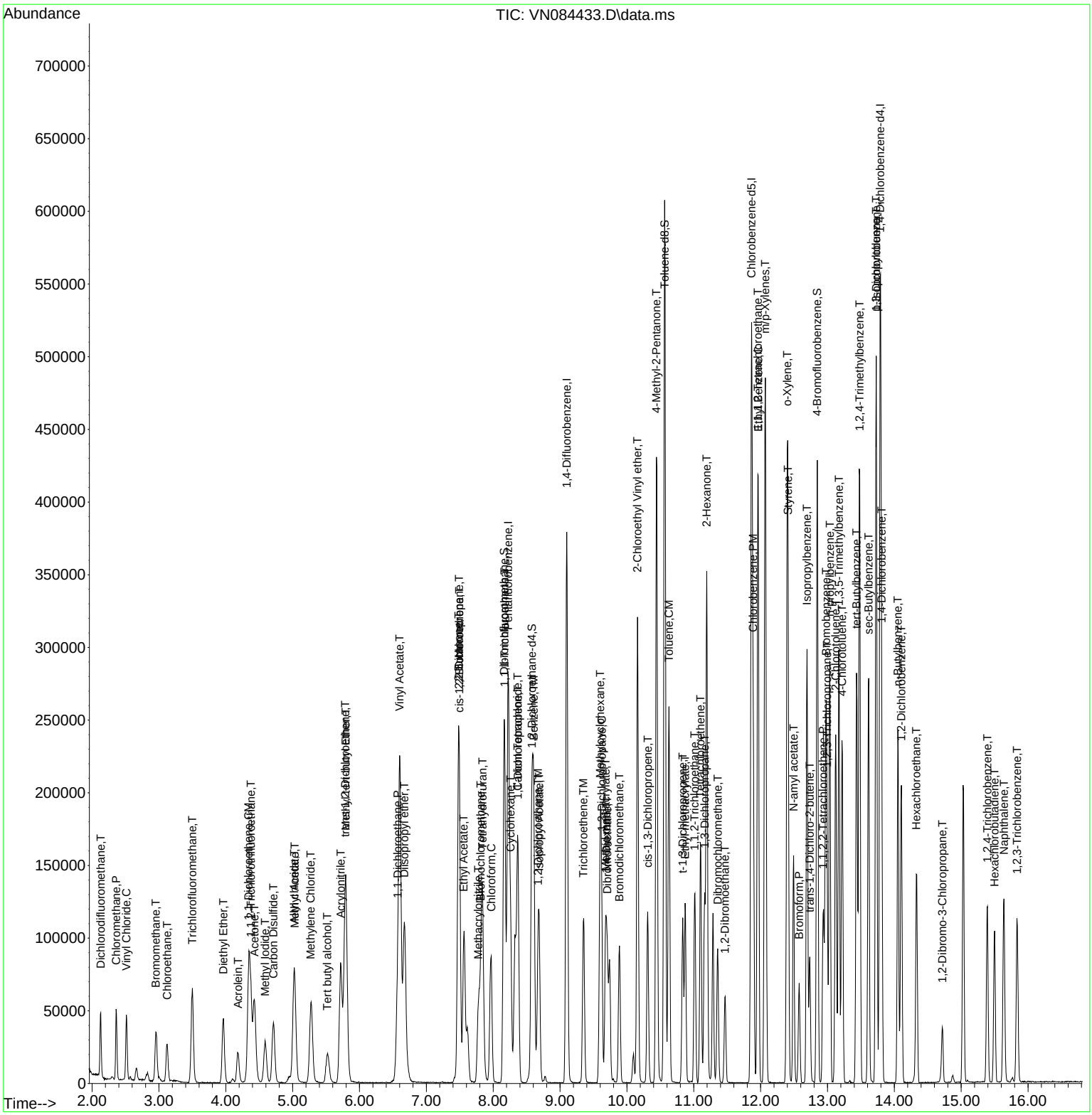
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084433.D
Acq On : 21 Oct 2024 13:48
Operator : JC\MD
Sample : VN1021WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 01:32:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019971.D
Acq On : 22 Oct 2024 11:16
Operator : SY/MD
Sample : VY1022SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 01:24:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBS01

Manual Integrations APPROVED
Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	215657	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	379714	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	332435	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	160914	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	141380	53.243	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.480%			
35) Dibromofluoromethane	7.634	113	133012	53.084	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.160%			
50) Toluene-d8	10.109	98	475907	51.432	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.860%			
62) 4-Bromofluorobenzene	12.402	95	170290	50.932	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 101.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	33223	16.549	ug/l	98
3) Chloromethane	2.068	50	49488	18.940	ug/l	100
4) Vinyl Chloride	2.208	62	55873	19.432	ug/l	98
5) Bromomethane	2.598	94	37858	20.801	ug/l	100
6) Chloroethane	2.739	64	38712	20.041	ug/l	100
7) Trichlorofluoromethane	3.062	101	85347	19.948	ug/l	96
8) Diethyl Ether	3.452	74	25847	19.877	ug/l	77
9) 1,1,2-Trichlorotrifluo...	3.824	101	50745	20.391	ug/l	93
10) Methyl Iodide	4.007	142	41636	16.542	ug/l	91
11) Tert butyl alcohol	4.866	59	25021m	106.212	ug/l	
12) 1,1-Dichloroethene	3.793	96	42185	18.234	ug/l #	83
13) Acrolein	3.659	56	16151	82.776	ug/l	98
14) Allyl chloride	4.385	41	81015	19.408	ug/l #	89
15) Acrylonitrile	5.061	53	66986	112.627	ug/l	98
16) Acetone	3.873	43	78126	113.024	ug/l #	82
17) Carbon Disulfide	4.110	76	81763	13.185	ug/l	97
18) Methyl Acetate	4.385	43	31430	21.108	ug/l #	86
19) Methyl tert-butyl Ether	5.116	73	139186	20.941	ug/l	99
20) Methylene Chloride	4.622	84	56101	21.506	ug/l #	79
21) trans-1,2-Dichloroethene	5.116	96	45321	17.999	ug/l #	83
22) Diisopropyl ether	6.019	45	203752	22.409	ug/l	89
23) Vinyl Acetate	5.964	43	546717	104.884	ug/l #	89
24) 1,1-Dichloroethane	5.921	63	108940	21.554	ug/l	94
25) 2-Butanone	6.896	43	102585	110.874	ug/l #	86
26) 2,2-Dichloropropane	6.884	77	90383	20.079	ug/l	94
27) cis-1,2-Dichloroethene	6.890	96	62331	20.031	ug/l	80
28) Bromochloromethane	7.244	49	48033	21.591	ug/l #	70
29) Tetrahydrofuran	7.262	42	54967	104.047	ug/l #	83
30) Chloroform	7.421	83	112806	21.894	ug/l	97
31) Cyclohexane	7.701	56	80071	18.047	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	92780	20.548	ug/l #	93
36) 1,1-Dichloropropene	7.835	75	71236	19.734	ug/l	94
37) Ethyl Acetate	6.988	43	40100	21.303	ug/l	95
38) Carbon Tetrachloride	7.817	117	76692	19.817	ug/l	97
39) Methylcyclohexane	9.110	83	80260	17.646	ug/l #	87
40) Benzene	8.079	78	219502	20.092	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019971.D
Acq On : 22 Oct 2024 11:16
Operator : SY/MD
Sample : VY1022SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 01:24:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	19341	18.985	ug/l		92
42) 1,2-Dichloroethane	8.158	62	65423	20.844	ug/l		95
43) Isopropyl Acetate	8.195	43	79333	20.666	ug/l	#	80
44) Trichloroethene	8.866	130	50367	19.035	ug/l		93
45) 1,2-Dichloropropane	9.140	63	59274	21.677	ug/l		98
46) Dibromomethane	9.231	93	30961	20.724	ug/l		89
47) Bromodichloromethane	9.420	83	86000	21.687	ug/l	#	99
48) Methyl methacrylate	9.219	41	34794	20.605	ug/l	#	80
49) 1,4-Dioxane	9.231	88	7330	438.363	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.000	43	217037	110.843	ug/l		90
52) Toluene	10.170	92	138788	20.352	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	72028	20.187	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	83472	19.826	ug/l	#	80
55) 1,1,2-Trichloroethane	10.573	97	44204	22.457	ug/l		95
56) Ethyl methacrylate	10.439	69	58852	20.837	ug/l	#	75
57) 1,3-Dichloropropane	10.713	76	74227	21.473	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	135351	102.941	ug/l		91
59) 2-Hexanone	10.762	43	158039	113.005	ug/l		86
60) Dibromochloromethane	10.914	129	52796	20.897	ug/l		100
61) 1,2-Dibromoethane	11.012	107	36218	20.362	ug/l		100
64) Tetrachloroethene	10.646	164	43834	18.538	ug/l		98
65) Chlorobenzene	11.438	112	153304	20.162	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.512	131	52074	20.242	ug/l		100
67) Ethyl Benzene	11.518	91	275703	19.961	ug/l		100
68) m/p-Xylenes	11.627	106	200508	39.306	ug/l		91
69) o-Xylene	11.950	106	94910	19.365	ug/l		87
70) Styrene	11.969	104	166953	20.190	ug/l		96
71) Bromoform	12.133	173	28091	20.398	ug/l	#	92
73) Isopropylbenzene	12.255	105	267844	19.789	ug/l		98
74) N-amyl acetate	12.066	43	72695	20.278	ug/l	#	86
75) 1,1,2,2-Tetrachloroethane	12.505	83	53178	22.111	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	34549m	10.960	ug/l		
77) Bromobenzene	12.530	156	55338	19.267	ug/l		83
78) n-propylbenzene	12.591	91	329337	20.137	ug/l		97
79) 2-Chlorotoluene	12.676	91	186478	19.889	ug/l		95
80) 1,3,5-Trimethylbenzene	12.737	105	213940	19.572	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.298	75	15058	19.281	ug/l	#	82
82) 4-Chlorotoluene	12.773	91	190256	19.845	ug/l		95
83) tert-Butylbenzene	12.993	119	202672	20.697	ug/l		95
84) 1,2,4-Trimethylbenzene	13.042	105	208163	19.208	ug/l		100
85) sec-Butylbenzene	13.176	105	302618	20.684	ug/l		96
86) p-Isopropyltoluene	13.292	119	239445	20.155	ug/l		95
87) 1,3-Dichlorobenzene	13.286	146	112443	19.386	ug/l		95
88) 1,4-Dichlorobenzene	13.365	146	111972	19.650	ug/l		97
89) n-Butylbenzene	13.615	91	237965	20.513	ug/l		98
90) Hexachloroethane	13.877	117	47683	20.612	ug/l		85
91) 1,2-Dichlorobenzene	13.657	146	103209	20.251	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8010	20.869	ug/l		67
93) 1,2,4-Trichlorobenzene	14.919	180	51648	18.073	ug/l		98
94) Hexachlorobutadiene	15.023	225	31251	19.670	ug/l		96
95) Naphthalene	15.145	128	98435	18.263	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	44764	18.530	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019971.D
Acq On : 22 Oct 2024 11:16
Operator : SY/MD
Sample : VY1022SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 01:24:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

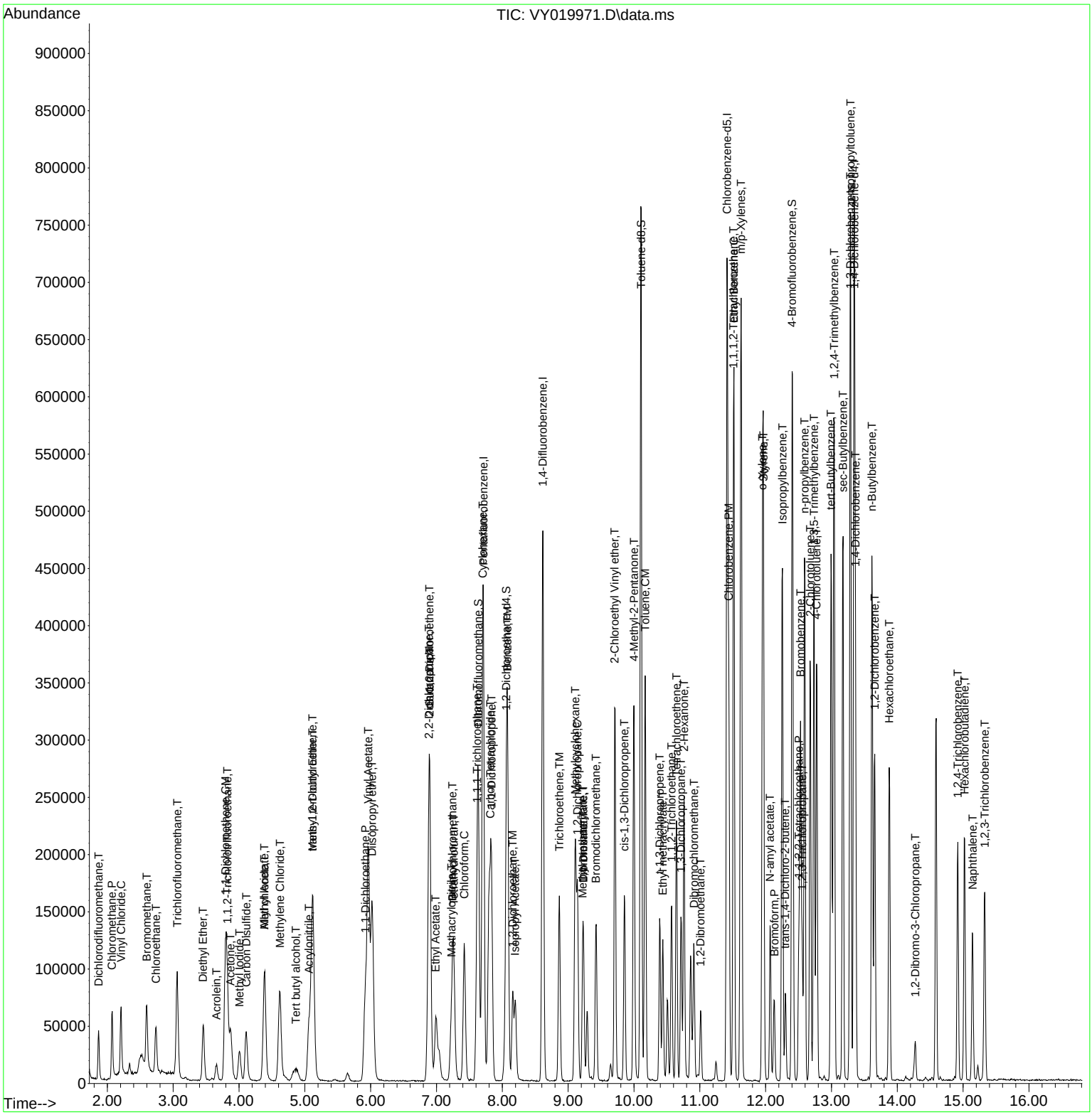
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019971.D
Acq On : 22 Oct 2024 11:16
Operator : SY/MD
Sample : VY1022SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 01:24:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019987.D
Acq On : 23 Oct 2024 12:20
Operator : SY/MD
Sample : VY1023SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 23:05:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

10/24/2024
Supervised By :Semsettin Yesilyurt

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	228334	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.615	114	420481	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	359220	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	165743	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	166994	59.398	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.800%				
35) Dibromofluoromethane	7.634	113	158432	57.099	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 114.200%				
50) Toluene-d8	10.109	98	559606	54.614	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 109.220%				
62) 4-Bromofluorobenzene	12.407	95	200269	54.092	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 108.180%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	35636	16.765	ug/l		94
3) Chloromethane	2.074	50	51598	18.651	ug/l		99
4) Vinyl Chloride	2.208	62	59853	19.660	ug/l		97
5) Bromomethane	2.592	94	41112	21.335	ug/l		95
6) Chloroethane	2.738	64	44191	21.607	ug/l		94
7) Trichlorofluoromethane	3.061	101	95584	21.100	ug/l		95
8) Diethyl Ether	3.458	74	28312	20.564	ug/l		75
9) 1,1,2-Trichlorotrifluo...	3.817	101	57085	21.665	ug/l		89
10) Methyl Iodide	4.006	142	46418	17.418	ug/l	#	90
11) Tert butyl alcohol	4.854	59	25965	103.724	ug/l	#	85
12) 1,1-Dichloroethene	3.793	96	47789	19.509	ug/l	#	80
13) Acrolein	3.659	56	16673	80.707	ug/l		95
14) Allyl chloride	4.391	41	91223	20.640	ug/l	#	88
15) Acrylonitrile	5.067	53	73154	116.169	ug/l		98
16) Acetone	3.872	43	83004	113.414	ug/l	#	86
17) Carbon Disulfide	4.104	76	91942	14.003	ug/l		100
18) Methyl Acetate	4.397	43	35434	22.475	ug/l	#	88
19) Methyl tert-butyl Ether	5.122	73	158778	22.562	ug/l		99
20) Methylene Chloride	4.616	84	57868	20.930	ug/l	#	83
21) trans-1,2-Dichloroethene	5.122	96	52886	19.837	ug/l		87
22) Diisopropyl ether	6.018	45	225339	23.407	ug/l	#	87
23) Vinyl Acetate	5.963	43	616904	111.778	ug/l	#	90
24) 1,1-Dichloroethane	5.915	63	120385	22.496	ug/l		95
25) 2-Butanone	6.890	43	112972	115.321	ug/l	#	80
26) 2,2-Dichloropropane	6.890	77	100233	21.031	ug/l		95
27) cis-1,2-Dichloroethene	6.890	96	71565	21.721	ug/l		83
28) Bromochloromethane	7.250	49	53979	22.917	ug/l	#	73
29) Tetrahydrofuran	7.262	42	63175	112.944	ug/l	#	81
30) Chloroform	7.420	83	129608	23.759	ug/l		99
31) Cyclohexane	7.707	56	89518	19.056	ug/l		90
32) 1,1,1-Trichloroethane	7.616	97	107871	22.564	ug/l		95
36) 1,1-Dichloropropene	7.835	75	79224	19.819	ug/l		94
37) Ethyl Acetate	6.988	43	45952	22.045	ug/l		97
38) Carbon Tetrachloride	7.817	117	85764	20.013	ug/l		96
39) Methylcyclohexane	9.109	83	90459	17.960	ug/l		88
40) Benzene	8.079	78	243387	20.118	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019987.D
Acq On : 23 Oct 2024 12:20
Operator : SY/MD
Sample : VY1023SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 23:05:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda
10/24/2024
Supervised By :Semsettin Yesilyurt
10/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	26358	23.364	ug/l	#	85
42) 1,2-Dichloroethane	8.158	62	76560	22.028	ug/l		93
43) Isopropyl Acetate	8.201	43	91000	21.407	ug/l	#	75
44) Trichloroethene	8.865	130	56769	19.374	ug/l		84
45) 1,2-Dichloropropane	9.146	63	64928	21.442	ug/l		98
46) Dibromomethane	9.231	93	33459	20.224	ug/l		90
47) Bromodichloromethane	9.426	83	95849	21.827	ug/l	#	97
48) Methyl methacrylate	9.219	41	40548	21.684	ug/l	#	79
49) 1,4-Dioxane	9.225	88	8279	447.113	ug/l	#	98
51) 4-Methyl-2-Pentanone	9.999	43	242857	112.004	ug/l		87
52) Toluene	10.170	92	153964	20.388	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	81507	20.629	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	95106	20.400	ug/l	#	84
55) 1,1,2-Trichloroethane	10.572	97	49121	22.536	ug/l		93
56) Ethyl methacrylate	10.438	69	65637	20.986	ug/l	#	77
57) 1,3-Dichloropropane	10.719	76	83548	21.826	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	154676	106.233	ug/l		94
59) 2-Hexanone	10.761	43	166037	107.214	ug/l		87
60) Dibromochloromethane	10.908	129	58828	21.027	ug/l		97
61) 1,2-Dibromoethane	11.017	107	40573	20.599	ug/l		99
64) Tetrachloroethene	10.645	164	46973	18.384	ug/l		92
65) Chlorobenzene	11.438	112	169018	20.571	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	58398	21.008	ug/l		98
67) Ethyl Benzene	11.517	91	306508	20.536	ug/l		100
68) m/p-Xylenes	11.627	106	223509	40.548	ug/l		91
69) o-Xylene	11.956	106	109070	20.594	ug/l		92
70) Styrene	11.968	104	185851	20.800	ug/l		96
71) Bromoform	12.127	173	30326	20.379	ug/l	#	97
73) Isopropylbenzene	12.255	105	301471	21.625	ug/l		98
74) N-amyl acetate	12.072	43	78264	21.196	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	57221	23.099	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	39912m	12.292	ug/l		
77) Bromobenzene	12.529	156	60828	20.561	ug/l		81
78) n-propylbenzene	12.596	91	366758	21.772	ug/l		96
79) 2-Chlorotoluene	12.676	91	205485	21.277	ug/l		96
80) 1,3,5-Trimethylbenzene	12.737	105	238134	21.151	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.304	75	16770	20.848	ug/l	#	79
82) 4-Chlorotoluene	12.773	91	213621	21.633	ug/l		94
83) tert-Butylbenzene	12.999	119	222024	22.013	ug/l		95
84) 1,2,4-Trimethylbenzene	13.041	105	234511	21.009	ug/l		96
85) sec-Butylbenzene	13.176	105	333139	22.107	ug/l		97
86) p-Isopropyltoluene	13.291	119	259118	21.175	ug/l		94
87) 1,3-Dichlorobenzene	13.285	146	126536	21.180	ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	124913	21.283	ug/l		95
89) n-Butylbenzene	13.614	91	259332	21.704	ug/l		98
90) Hexachloroethane	13.883	117	51259	21.512	ug/l		83
91) 1,2-Dichlorobenzene	13.657	146	110711	21.090	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.273	75	8102	20.494	ug/l		78
93) 1,2,4-Trichlorobenzene	14.919	180	56783	19.291	ug/l		98
94) Hexachlorobutadiene	15.023	225	32870	20.086	ug/l		97
95) Naphthalene	15.145	128	108325	19.512	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	47550	19.110	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102324\
Data File : VY019987.D
Acq On : 23 Oct 2024 12:20
Operator : SY/MD
Sample : VY1023SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 23:05:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda
10/24/2024
Supervised By :Semsettin Yesilyurt
10/24/2024

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\VY102324\
Data File : VY019987.D
Acq On : 23 Oct 2024 12:20
Operator : SY/MD
Sample : VY1023SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 23 23:05:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

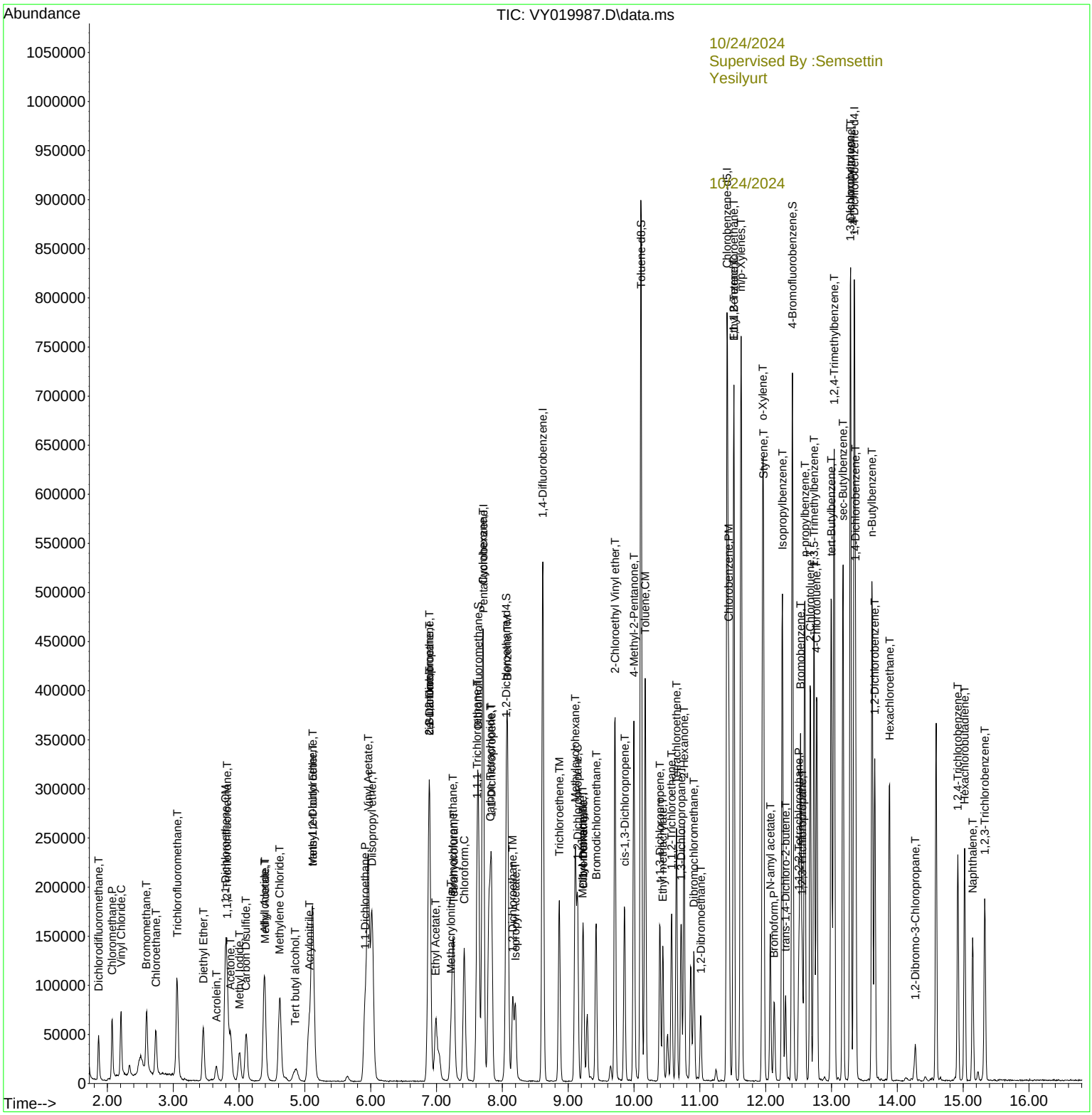
Instrument :
MSVOA_Y
ClientSampleId :
VY1023SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

10/24/2024
Supervised By :Semsettin Yesilyurt

10/24/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084434.D
Acq On : 21 Oct 2024 14:22
Operator : JC\MD
Sample : VN1021WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 22 01:33:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	163086	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	278516	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	124118	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123457	51.056	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.120%			
35) Dibromofluoromethane	8.165	113	97003	52.829	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.660%			
50) Toluene-d8	10.565	98	350013	51.812	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.620%			
62) 4-Bromofluorobenzene	12.847	95	129081	52.449	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	32472	16.833	ug/l	93
3) Chloromethane	2.359	50	35804	16.255	ug/l	98
4) Vinyl Chloride	2.512	62	36441	17.080	ug/l	99
5) Bromomethane	2.959	94	23913	16.992	ug/l	99
6) Chloroethane	3.118	64	24475	16.017	ug/l	96
7) Trichlorofluoromethane	3.501	101	63283	19.047	ug/l	90
8) Diethyl Ether	3.959	74	23522	19.089	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	36689	19.273	ug/l	98
10) Methyl Iodide	4.589	142	44167	18.016	ug/l	99
11) Tert butyl alcohol	5.518	59	35053	87.914	ug/l	97
12) 1,1-Dichloroethene	4.342	96	32588	17.747	ug/l	96
13) Acrolein	4.189	56	24397	53.300	ug/l	98
14) Allyl chloride	5.024	41	53083	16.646	ug/l	99
15) Acrylonitrile	5.718	53	102471	101.771	ug/l	97
16) Acetone	4.430	43	95163	91.613	ug/l	94
17) Carbon Disulfide	4.712	76	84276	14.496	ug/l	96
18) Methyl Acetate	5.030	43	54347	24.005	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	122872	19.826	ug/l	98
20) Methylene Chloride	5.271	84	42636	20.192	ug/l	84
21) trans-1,2-Dichloroethene	5.783	96	35388	18.395	ug/l	95
22) Diisopropyl ether	6.671	45	130999	19.859	ug/l	99
23) Vinyl Acetate	6.606	43	504977	103.215	ug/l	99
24) 1,1-Dichloroethane	6.571	63	72128	19.553	ug/l	96
25) 2-Butanone	7.483	43	136944	96.795	ug/l	97
26) 2,2-Dichloropropane	7.489	77	64755	19.469	ug/l	100
27) cis-1,2-Dichloroethene	7.489	96	44686	19.222	ug/l	98
28) Bromochloromethane	7.812	49	35788	21.744	ug/l	99
29) Tetrahydrofuran	7.841	42	85661	98.113	ug/l	97
30) Chloroform	7.965	83	76845	20.055	ug/l	97
31) Cyclohexane	8.253	56	58106	16.223	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	68247	19.832	ug/l	96
36) 1,1-Dichloropropene	8.371	75	49846	18.689	ug/l	99
37) Ethyl Acetate	7.559	43	52425	19.160	ug/l	99
38) Carbon Tetrachloride	8.359	117	56628	19.356	ug/l	96
39) Methylcyclohexane	9.600	83	50490	17.009	ug/l	98
40) Benzene	8.606	78	162968	19.612	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084434.D
Acq On : 21 Oct 2024 14:22
Operator : JC\MD
Sample : VN1021WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 22 01:33:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	29826	20.079	ug/l		97
42) 1,2-Dichloroethane	8.671	62	58026	20.598	ug/l		99
43) Isopropyl Acetate	8.688	43	88049	16.429	ug/l		97
44) Trichloroethene	9.353	130	37926	19.541	ug/l		97
45) 1,2-Dichloropropane	9.624	63	41049	20.882	ug/l		96
46) Dibromomethane	9.712	93	29187	22.002	ug/l		99
47) Bromodichloromethane	9.888	83	61715	20.940	ug/l		98
48) Methyl methacrylate	9.682	41	40695	19.075	ug/l		97
49) 1,4-Dioxane	9.694	88	16333	415.845	ug/l		97
51) 4-Methyl-2-Pentanone	10.447	43	271816	104.354	ug/l		99
52) Toluene	10.629	92	102809	20.289	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	59188	19.701	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	64640	20.003	ug/l		94
55) 1,1,2-Trichloroethane	11.012	97	40810	22.465	ug/l		96
56) Ethyl methacrylate	10.871	69	59539	19.919	ug/l		98
57) 1,3-Dichloropropane	11.165	76	68931	21.236	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	141699	102.191	ug/l		97
59) 2-Hexanone	11.194	43	198917	102.176	ug/l		99
60) Dibromochloromethane	11.359	129	46724	21.769	ug/l		98
61) 1,2-Dibromoethane	11.471	107	39150	20.741	ug/l		100
64) Tetrachloroethene	11.106	164	34348	19.288	ug/l		94
65) Chlorobenzene	11.888	112	110738	19.535	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.959	131	39189	20.071	ug/l		99
67) Ethyl Benzene	11.965	91	184057	18.360	ug/l		99
68) m/p-Xylenes	12.071	106	144045	38.843	ug/l		98
69) o-Xylene	12.400	106	66105	18.841	ug/l		93
70) Styrene	12.412	104	117753	19.814	ug/l		99
71) Bromoform	12.576	173	29825	20.747	ug/l	#	99
73) Isopropylbenzene	12.694	105	173820	18.352	ug/l		99
74) N-amyl acetate	12.494	43	73994	17.252	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	58745	20.627	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	55231m	21.797	ug/l		
77) Bromobenzene	12.976	156	44718	19.574	ug/l		95
78) n-propylbenzene	13.035	91	210981	19.226	ug/l		100
79) 2-Chlorotoluene	13.123	91	129620	18.511	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	148466	19.217	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	18939	17.919	ug/l		99
82) 4-Chlorotoluene	13.218	91	135329	19.198	ug/l		97
83) tert-Butylbenzene	13.435	119	126785	18.464	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	153677	19.745	ug/l		98
85) sec-Butylbenzene	13.618	105	175585	19.162	ug/l		100
86) p-Isopropyltoluene	13.729	119	145633	19.220	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	82553	19.262	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	83788	19.359	ug/l		98
89) n-Butylbenzene	14.059	91	122012	17.758	ug/l		99
90) Hexachloroethane	14.329	117	27657	17.982	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	78881	18.770	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	10881	18.515	ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	38616	18.655	ug/l		99
94) Hexachlorobutadiene	15.506	225	17729	17.175	ug/l		99
95) Naphthalene	15.641	128	115061	16.767	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	37660	18.175	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084434.D
Acq On : 21 Oct 2024 14:22
Operator : JC\MD
Sample : VN1021WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 22 01:33:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

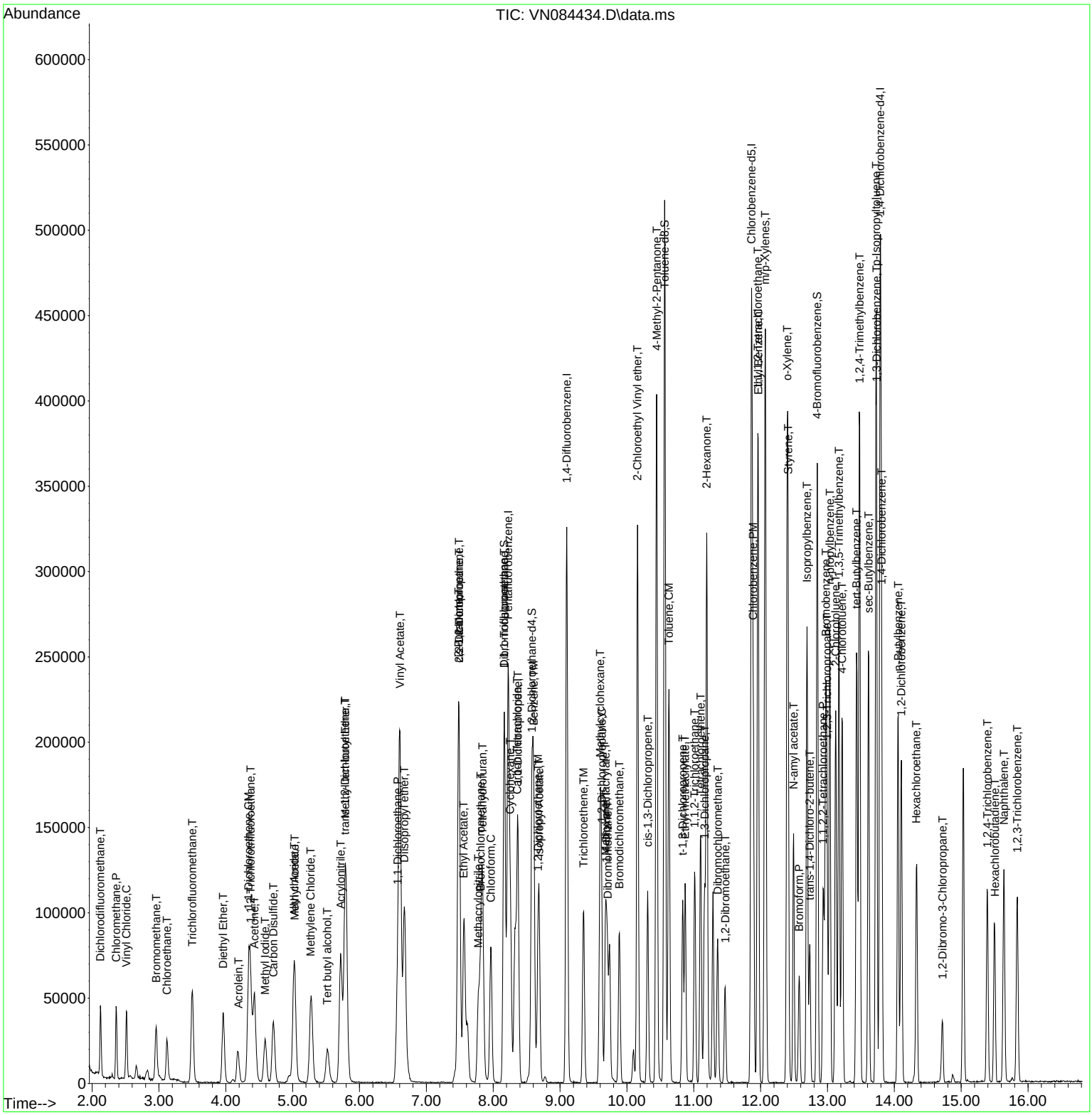
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102124\
Data File : VN084434.D
Acq On : 21 Oct 2024 14:22
Operator : JC\MD
Sample : VN1021WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 22 01:33:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1021WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/22/2024
Supervised By :Mahesh Dadoda 10/22/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019972.D
Acq On : 22 Oct 2024 11:38
Operator : SY/MD
Sample : VY1022SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 23 01:25:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	222995	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	399190	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	345246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	163027	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	156088	56.848	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.700%			
35) Dibromofluoromethane	7.628	113	147654	56.052	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.100%			
50) Toluene-d8	10.103	98	518648	53.316	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 106.640%			
62) 4-Bromofluorobenzene	12.401	95	187461	53.333	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 106.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	36062	17.372	ug/l	95
3) Chloromethane	2.068	50	49606	18.360	ug/l	95
4) Vinyl Chloride	2.202	62	55821	18.775	ug/l	95
5) Bromomethane	2.592	94	38520	20.469	ug/l	97
6) Chloroethane	2.732	64	40229	20.141	ug/l	96
7) Trichlorofluoromethane	3.055	101	87783	19.842	ug/l	97
8) Diethyl Ether	3.458	74	27366	20.353	ug/l	73
9) 1,1,2-Trichlorotrifluo...	3.811	101	51895	20.167	ug/l	89
10) Methyl Iodide	4.007	142	42219	16.222	ug/l #	87
11) Tert butyl alcohol	4.866	59	28518	119.003	ug/l #	88
12) 1,1-Dichloroethene	3.793	96	42356	17.705	ug/l #	77
13) Acrolein	3.653	56	17583	87.150	ug/l	99
14) Allyl chloride	4.384	41	84995	19.691	ug/l #	90
15) Acrylonitrile	5.061	53	70363	114.412	ug/l	97
16) Acetone	3.866	43	83428	116.722	ug/l #	80
17) Carbon Disulfide	4.110	76	84222	13.135	ug/l	97
18) Methyl Acetate	4.384	43	34553	22.441	ug/l #	86
19) Methyl tert-butyl Ether	5.110	73	147148	21.410	ug/l	98
20) Methylene Chloride	4.616	84	56646	20.981	ug/l #	78
21) trans-1,2-Dichloroethene	5.110	96	48352	18.570	ug/l #	78
22) Diisopropyl ether	6.018	45	214474	22.812	ug/l #	89
23) Vinyl Acetate	5.957	43	590341	109.526	ug/l #	91
24) 1,1-Dichloroethane	5.915	63	115574	22.114	ug/l	99
25) 2-Butanone	6.896	43	112576	117.668	ug/l #	85
26) 2,2-Dichloropropane	6.884	77	92797	19.937	ug/l	94
27) cis-1,2-Dichloroethene	6.896	96	67380	20.941	ug/l	84
28) Bromochloromethane	7.238	49	51979	22.596	ug/l #	74
29) Tetrahydrofuran	7.262	42	61967	113.437	ug/l #	81
30) Chloroform	7.421	83	119791	22.485	ug/l	96
31) Cyclohexane	7.695	56	79144	17.251	ug/l	89
32) 1,1,1-Trichloroethane	7.616	97	95901	20.540	ug/l #	94
36) 1,1-Dichloropropene	7.835	75	71708	18.895	ug/l	94
37) Ethyl Acetate	6.982	43	44595	22.535	ug/l	97
38) Carbon Tetrachloride	7.817	117	76115	18.709	ug/l	98
39) Methylcyclohexane	9.109	83	83024	17.363	ug/l #	89
40) Benzene	8.079	78	232333	20.229	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019972.D
Acq On : 22 Oct 2024 11:38
Operator : SY/MD
Sample : VY1022SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 23 01:25:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	21915m	20.462	ug/l		
42) 1,2-Dichloroethane	8.158	62	70838	21.468	ug/l		95
43) Isopropyl Acetate	8.195	43	88186	21.851	ug/l	#	88
44) Trichloroethene	8.865	130	53833	19.352	ug/l		93
45) 1,2-Dichloropropane	9.140	63	62406	21.708	ug/l		95
46) Dibromomethane	9.231	93	33185	21.128	ug/l		88
47) Bromodichloromethane	9.420	83	90748	21.768	ug/l	#	93
48) Methyl methacrylate	9.219	41	38855	21.887	ug/l	#	81
49) 1,4-Dioxane	9.231	88	7666	436.089	ug/l	#	92
51) 4-Methyl-2-Pentanone	9.999	43	236937	115.102	ug/l		87
52) Toluene	10.170	92	147740	20.607	ug/l		96
53) t-1,3-Dichloropropene	10.390	75	75805	20.209	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	90917	20.541	ug/l	#	83
55) 1,1,2-Trichloroethane	10.572	97	45713	22.091	ug/l		97
56) Ethyl methacrylate	10.438	69	62657	21.102	ug/l	#	73
57) 1,3-Dichloropropane	10.713	76	79830	21.967	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	140702	101.789	ug/l		92
59) 2-Hexanone	10.761	43	168776	114.795	ug/l		85
60) Dibromochloromethane	10.908	129	56246	21.177	ug/l		100
61) 1,2-Dibromoethane	11.011	107	38498	20.588	ug/l		98
64) Tetrachloroethene	10.646	164	44825	18.254	ug/l		93
65) Chlorobenzene	11.438	112	159172	20.157	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	57723	21.605	ug/l		96
67) Ethyl Benzene	11.517	91	286431	19.968	ug/l		100
68) m/p-Xylenes	11.627	106	206259	38.933	ug/l		90
69) o-Xylene	11.950	106	100341	19.713	ug/l		90
70) Styrene	11.969	104	175410	20.426	ug/l		95
71) Bromoform	12.127	173	28873	20.187	ug/l	#	100
73) Isopropylbenzene	12.249	105	276863	20.190	ug/l		97
74) N-amyl acetate	12.066	43	77748	21.407	ug/l	#	85
75) 1,1,2,2-Tetrachloroethane	12.505	83	56863	23.337	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	35412m	11.088	ug/l		
77) Bromobenzene	12.529	156	58372	20.060	ug/l		82
78) n-propylbenzene	12.590	91	343357	20.722	ug/l		96
79) 2-Chlorotoluene	12.676	91	196135	20.648	ug/l		93
80) 1,3,5-Trimethylbenzene	12.731	105	222638	20.104	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.298	75	15335	19.381	ug/l	#	78
82) 4-Chlorotoluene	12.773	91	200305	20.623	ug/l		94
83) tert-Butylbenzene	12.993	119	203727	20.535	ug/l		93
84) 1,2,4-Trimethylbenzene	13.041	105	222492	20.264	ug/l		96
85) sec-Butylbenzene	13.169	105	308477	20.811	ug/l		96
86) p-Isopropyltoluene	13.291	119	243006	20.190	ug/l		95
87) 1,3-Dichlorobenzene	13.285	146	119217	20.287	ug/l		96
88) 1,4-Dichlorobenzene	13.365	146	118139	20.464	ug/l		96
89) n-Butylbenzene	13.615	91	244627	20.814	ug/l		97
90) Hexachloroethane	13.877	117	48467	20.680	ug/l		87
91) 1,2-Dichlorobenzene	13.657	146	106590	20.643	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.267	75	8487	21.825	ug/l		69
93) 1,2,4-Trichlorobenzene	14.919	180	56103	19.377	ug/l		98
94) Hexachlorobutadiene	15.017	225	31492	19.564	ug/l		99
95) Naphthalene	15.139	128	106373	19.480	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	46528	19.011	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019972.D
Acq On : 22 Oct 2024 11:38
Operator : SY/MD
Sample : VY1022SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 23 01:25:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

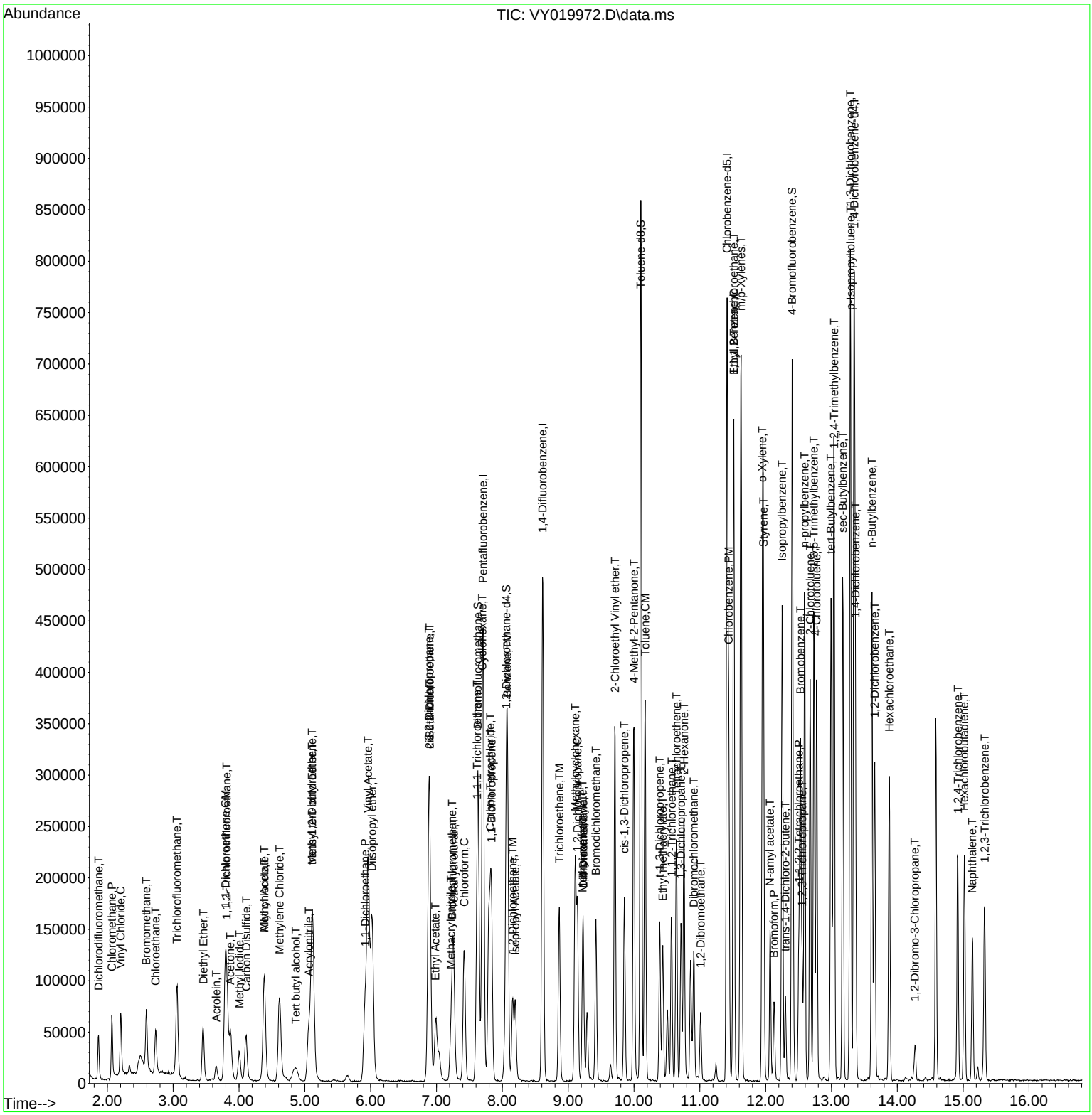
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102224\
Data File : VY019972.D
Acq On : 22 Oct 2024 11:38
Operator : SY/MD
Sample : VY1022SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 23 01:25:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 16 05:44:48 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1022SBSD01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 10/23/2024
Supervised By :Mahesh Dadoda 10/23/2024



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

Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084213.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:48 AM	MMDadoda	10/1/2024 5:34:17 PM	Peak Integrated by Software
VSTDICCC050	VN084214.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:52 AM	MMDadoda	10/1/2024 5:34:19 PM	Peak Integrated by Software
VSTDICC020	VN084215.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:57 AM	MMDadoda	10/1/2024 5:34:21 PM	Peak Integrated by Software
VSTDICC010	VN084216.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:06 AM	MMDadoda	10/1/2024 5:34:22 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,1,2-Trichlorotrifluoroethane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	trans-1,2-Dichloroethene	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Vinyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,4-Dichlorobenzene	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Allyl chloride	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN084218.D	Vinyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICV050	VN084220.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:01 AM	MMDadoda	10/1/2024 5:34:27 PM	Peak Integrated by Software
VSTDCCC050	VN084229.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:17 AM	MMDadoda	10/1/2024 5:34:32 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn102124	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084428.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:28 AM	MMDadoda	10/22/2024 3:37:06 PM	Peak Integrated by Software
VN1021WBS01	VN084433.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:37 AM	MMDadoda	10/22/2024 3:37:07 PM	Peak Integrated by Software
VN1021WBSD01	VN084434.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:41 AM	MMDadoda	10/22/2024 3:37:09 PM	Peak Integrated by Software
VSTDCCC050	VN084448.D	1,2,3-Trichloropropane	JOHN	10/22/2024 9:41:59 AM	MMDadoda	10/22/2024 3:37:13 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY100924	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY019827.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:35 AM	MMDadoda	10/10/2024 10:09:23 PM	Peak Integrated by Software
VSTDICC010	VY019828.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:39 AM	MMDadoda	10/10/2024 10:09:24 PM	Peak Integrated by Software
VSTDICC020	VY019829.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:24 AM	MMDadoda	10/10/2024 10:09:26 PM	Peak Integrated by Software
VSTDICCC050	VY019830.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:44 AM	MMDadoda	10/10/2024 10:09:28 PM	Peak Integrated by Software
VSTDICC100	VY019831.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:48 AM	MMDadoda	10/10/2024 10:09:30 PM	Peak Integrated by Software
VSTDICC150	VY019832.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:51 AM	MMDadoda	10/10/2024 10:09:32 PM	Peak Integrated by Software
VSTDICV050	VY019834.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:28:56 AM	MMDadoda	10/10/2024 10:09:33 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	1,2,3-Trichloropropane	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software
VSTDCCC050	VY019842.D	Methacrylonitrile	Romaben	10/10/2024 10:29:13 AM	MMDadoda	10/10/2024 10:09:40 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY102224	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019969.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:52:55 AM	MMDadoda	10/23/2024 1:02:18 PM	Peak Integrated by Software
VY1022SBS01	VY019971.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:52:58 AM	MMDadoda	10/23/2024 1:02:19 PM	Peak Integrated by Software
VY1022SBS01	VY019971.D	Tert butyl alcohol	Romaben	10/23/2024 10:52:58 AM	MMDadoda	10/23/2024 1:02:19 PM	Peak Integrated by Software
VY1022SBSD01	VY019972.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:53:03 AM	MMDadoda	10/23/2024 1:02:21 PM	Peak Integrated by Software
VY1022SBSD01	VY019972.D	Methacrylonitrile	Romaben	10/23/2024 10:53:03 AM	MMDadoda	10/23/2024 1:02:21 PM	Peak Integrated by Software
VSTDCCC050	VY019983.D	1,2,3-Trichloropropane	Romaben	10/23/2024 10:53:10 AM	MMDadoda	10/23/2024 1:02:24 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY102324	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY019985.D	1,2,3-Trichloropropane	MMDadoda	10/24/2024 2:47:23 PM	SAM	10/24/2024 2:50:07 PM	Peak Integrated by Software
VY1023SBS01	VY019987.D	1,2,3-Trichloropropane	MMDadoda	10/24/2024 2:47:23 PM	SAM	10/24/2024 2:50:07 PM	Peak Integrated by Software
VSTDCCC050	VY019999.D	1,2,3-Trichloropropane	MMDadoda	10/24/2024 2:47:26 PM	SAM	10/24/2024 2:50:10 PM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084211.D	30 Sep 2024 09:24	JC\MD	Ok
2	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	JC\MD	Not Ok
3	VSTDICC100	VN084213.D	30 Sep 2024 12:25	JC\MD	Ok,M
4	VSTDICCC050	VN084214.D	30 Sep 2024 12:49	JC\MD	Ok,M
5	VSTDICC020	VN084215.D	30 Sep 2024 13:13	JC\MD	Ok,M
6	VSTDICC010	VN084216.D	30 Sep 2024 13:37	JC\MD	Ok,M
7	VSTDICC005	VN084217.D	30 Sep 2024 14:00	JC\MD	Ok,M
8	VSTDICC001	VN084218.D	30 Sep 2024 14:48	JC\MD	Ok,M
9	IBLK	VN084219.D	30 Sep 2024 15:12	JC\MD	Ok
10	VSTDICV050	VN084220.D	30 Sep 2024 15:36	JC\MD	Ok,M
11	VN0930MBL01	VN084221.D	30 Sep 2024 16:11	JC\MD	Ok
12	VN0930WBL01	VN084222.D	30 Sep 2024 16:35	JC\MD	Ok
13	VN0930WBS01	VN084223.D	30 Sep 2024 17:42	JC\MD	Ok,M
14	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06	JC\MD	Ok,M
15	P4116-24	VN084225.D	30 Sep 2024 18:30	JC\MD	Dilution
16	P4116-25	VN084226.D	30 Sep 2024 18:54	JC\MD	Dilution
17	P4116-26	VN084227.D	30 Sep 2024 19:18	JC\MD	Dilution
18	P4116-27	VN084228.D	30 Sep 2024 19:42	JC\MD	Dilution
19	VSTDCCC050	VN084229.D	30 Sep 2024 20:06	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/22/2024 3:37:17 PM		
SubDirectory	VN102124	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130983
Initial Calibration Stds	
CCC	VP130986,VP130987
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084427.D	21 Oct 2024 11:14	JC\MD	Ok
2	VSTDCCC050	VN084428.D	21 Oct 2024 11:38	JC\MD	Ok,M
3	VN1021MBL01	VN084429.D	21 Oct 2024 12:12	JC\MD	Ok
4	VN1021WBL01	VN084430.D	21 Oct 2024 12:36	JC\MD	Ok
5	VN1021MBS01	VN084431.D	21 Oct 2024 13:00	JC\MD	Not Ok
6	P4417-04	VN084432.D	21 Oct 2024 13:24	JC\MD	Ok
7	VN1021WBS01	VN084433.D	21 Oct 2024 13:48	JC\MD	Ok,M
8	VN1021WBSD01	VN084434.D	21 Oct 2024 14:22	JC\MD	Ok,M
9	P4438-03	VN084435.D	21 Oct 2024 14:53	JC\MD	Ok
10	P4438-01	VN084436.D	21 Oct 2024 15:17	JC\MD	Ok
11	P4440-02	VN084437.D	21 Oct 2024 15:41	JC\MD	Ok
12	P4438-02	VN084438.D	21 Oct 2024 16:05	JC\MD	Ok
13	P4438-04	VN084439.D	21 Oct 2024 16:29	JC\MD	Ok
14	P4438-05	VN084440.D	21 Oct 2024 16:53	JC\MD	Ok
15	P4438-06	VN084441.D	21 Oct 2024 17:17	JC\MD	Ok
16	P4438-07	VN084442.D	21 Oct 2024 17:40	JC\MD	Ok
17	P4440-01	VN084443.D	21 Oct 2024 18:04	JC\MD	Ok
18	P4471-03	VN084444.D	21 Oct 2024 18:28	JC\MD	Ok
19	P4460-05	VN084445.D	21 Oct 2024 18:52	JC\MD	Ok
20	P4460-06	VN084446.D	21 Oct 2024 19:16	JC\MD	Ok
21	VN1021MBS02	VN084447.D	21 Oct 2024 19:40	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/22/2024 3:37:17 PM		
SubDirectory	VN102124	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130983
Initial Calibration Stds	
CCC	VP130986,VP130987
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VN084448.D	21 Oct 2024 20:04	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM				
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP130736
Initial Calibration Stds	VP130737,VP130738,VP130739,VP130740,VP130741,VP130742
CCC	VP130744,VP130745
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130746
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019826.D	09 Oct 2024 09:33	SY/MD	Ok
2	VSTDICC005	VY019827.D	09 Oct 2024 10:18	SY/MD	Ok,M
3	VSTDICC010	VY019828.D	09 Oct 2024 10:41	SY/MD	Ok,M
4	VSTDICC020	VY019829.D	09 Oct 2024 11:04	SY/MD	Ok,M
5	VSTDICCC050	VY019830.D	09 Oct 2024 11:26	SY/MD	Ok,M
6	VSTDICC100	VY019831.D	09 Oct 2024 11:49	SY/MD	Ok,M
7	VSTDICC150	VY019832.D	09 Oct 2024 12:11	SY/MD	Ok,M
8	VIBLK	VY019833.D	09 Oct 2024 12:35	SY/MD	Ok
9	VSTDICV050	VY019834.D	09 Oct 2024 15:25	SY/MD	Ok,M
10	VY1009SBL01	VY019835.D	09 Oct 2024 16:11	SY/MD	Ok
11	VY1009SBS01	VY019836.D	09 Oct 2024 16:41	SY/MD	Ok,M
12	VY1009SBSD01	VY019837.D	09 Oct 2024 17:04	SY/MD	Ok,M
13	P4343-01	VY019838.D	09 Oct 2024 17:27	SY/MD	Not Ok
14	P4353-02	VY019839.D	09 Oct 2024 17:51	SY/MD	Ok
15	P4359-01	VY019840.D	09 Oct 2024 18:14	SY/MD	Ok
16	P4344-01	VY019841.D	09 Oct 2024 18:38	SY/MD	Ok
17	VSTDCCC050	VY019842.D	09 Oct 2024 19:00	SY/MD	Ok,M

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102224

Review By	Mahesh Dadoda	Review On	10/23/2024 1:02:15 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 6:36:46 AM		
SubDirectory	VY102224	HP Acquire Method		HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131009
Initial Calibration Stds	
CCC	VP131010,VP131011
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019968.D	22 Oct 2024 08:49	SY/MD	Ok
2	VSTDCCC050	VY019969.D	22 Oct 2024 10:01	SY/MD	Ok,M
3	VY1022SBL01	VY019970.D	22 Oct 2024 10:36	SY/MD	Ok
4	VY1022SBS01	VY019971.D	22 Oct 2024 11:16	SY/MD	Ok,M
5	VY1022SBSD01	VY019972.D	22 Oct 2024 11:38	SY/MD	Ok,M
6	P4460-03	VY019973.D	22 Oct 2024 12:02	SY/MD	Ok,M
7	P4467-03	VY019974.D	22 Oct 2024 12:26	SY/MD	Ok
8	P4460-02	VY019975.D	22 Oct 2024 12:49	SY/MD	Ok
9	P4472-06	VY019976.D	22 Oct 2024 13:13	SY/MD	Ok
10	P4472-02	VY019977.D	22 Oct 2024 13:36	SY/MD	Ok
11	VIBLK	VY019978.D	22 Oct 2024 13:59	SY/MD	Ok
12	P4471-01	VY019979.D	22 Oct 2024 14:23	SY/MD	Ok
13	P4471-02	VY019980.D	22 Oct 2024 14:46	SY/MD	ReRun
14	P4470-01	VY019981.D	22 Oct 2024 15:58	SY/MD	Ok
15	P4474-01	VY019982.D	22 Oct 2024 16:21	SY/MD	ReRun
16	VSTDCCC050	VY019983.D	22 Oct 2024 16:44	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102324

Review By	Mahesh Dadoda	Review On	10/24/2024 2:47:28 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 2:50:12 PM				
SubDirectory	VY102324	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131048
Initial Calibration Stds	
CCC	VP131049,VP131050
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY019984.D	23 Oct 2024 08:51	SY/MD	Ok
2	VSTDCCC050	VY019985.D	23 Oct 2024 10:58	SY/MD	Ok,M
3	VY1023SBL01	VY019986.D	23 Oct 2024 11:35	SY/MD	Ok
4	VY1023SBS01	VY019987.D	23 Oct 2024 12:20	SY/MD	Ok,M
5	VY1023SBSD01	VY019988.D	23 Oct 2024 12:43	SY/MD	Ok,M
6	P4487-07	VY019989.D	23 Oct 2024 13:12	SY/MD	Ok
7	P4487-05	VY019990.D	23 Oct 2024 13:35	SY/MD	Ok
8	P4487-03	VY019991.D	23 Oct 2024 13:59	SY/MD	Ok
9	P4487-01	VY019992.D	23 Oct 2024 14:22	SY/MD	ReRun
10	P4471-02	VY019993.D	23 Oct 2024 14:45	SY/MD	Ok
11	P4486-01	VY019994.D	23 Oct 2024 15:09	SY/MD	ReRun
12	P4473-01	VY019995.D	23 Oct 2024 15:32	SY/MD	ReRun
13	P4474-01RE	VY019996.D	23 Oct 2024 15:56	SY/MD	Confirms
14	P4489-01	VY019997.D	23 Oct 2024 16:19	SY/MD	Dilution
15	VIBLK	VY019998.D	23 Oct 2024 16:43	SY/MD	Ok
16	VSTDCCC050	VY019999.D	23 Oct 2024 17:05	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084211.D	30 Sep 2024 09:24		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN084213.D	30 Sep 2024 12:25		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN084214.D	30 Sep 2024 12:49		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN084215.D	30 Sep 2024 13:13		JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN084216.D	30 Sep 2024 13:37		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN084217.D	30 Sep 2024 14:00		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN084218.D	30 Sep 2024 14:48		JC\MD	Ok,M
9	IBLK	IBLK	VN084219.D	30 Sep 2024 15:12		JC\MD	Ok
10	VSTDICV050	ICVVN093024	VN084220.D	30 Sep 2024 15:36		JC\MD	Ok,M
11	VN0930MBL01	VN0930MBL01	VN084221.D	30 Sep 2024 16:11		JC\MD	Ok
12	VN0930WBL01	VN0930WBL01	VN084222.D	30 Sep 2024 16:35		JC\MD	Ok
13	VN0930WBS01	VN0930WBS01	VN084223.D	30 Sep 2024 17:42		JC\MD	Ok,M
14	VN0930WBSD01	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06		JC\MD	Ok,M
15	P4116-24	RE132D5-20240918	VN084225.D	30 Sep 2024 18:30	vial A pH<2 Need 2x	JC\MD	Dilution
16	P4116-25	RE132D6-20240918	VN084226.D	30 Sep 2024 18:54	vial A pH<2 Need 40X	JC\MD	Dilution
17	P4116-26	RE132D7-20240918	VN084227.D	30 Sep 2024 19:18	vial A pH<2 Need 40X	JC\MD	Dilution
18	P4116-27	DUP05-20240918	VN084228.D	30 Sep 2024 19:42	vial A pH<2 Need 2x	JC\MD	Dilution

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VN084229.D	30 Sep 2024 20:06		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/22/2024 3:37:17 PM		
SubDirectory	VN102124	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130983
Initial Calibration Stds	
CCC	VP130986,VP130987
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	VN084427.D	21 Oct 2024 11:14		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084428.D	21 Oct 2024 11:38	V13516	JC\MD	Ok,M
3	VN1021MBL01	VN1021MBL01	VN084429.D	21 Oct 2024 12:12		JC\MD	Ok
4	VN1021WBL01	VN1021WBL01	VN084430.D	21 Oct 2024 12:36		JC\MD	Ok
5	VN1021MBS01	VN1021MBS01	VN084431.D	21 Oct 2024 13:00	Recovery failed	JC\MD	Not Ok
6	P4417-04	HOPPER-B-SOLID	VN084432.D	21 Oct 2024 13:24		JC\MD	Ok
7	VN1021WBS01	VN1021WBS01	VN084433.D	21 Oct 2024 13:48		JC\MD	Ok,M
8	VN1021WBSD01	VN1021WBSD01	VN084434.D	21 Oct 2024 14:22		JC\MD	Ok,M
9	P4438-03	VPB190-HYD-2024101	VN084435.D	21 Oct 2024 14:53	vial B pH<2	JC\MD	Ok
10	P4438-01	BP-VPB-190-TB-20241	VN084436.D	21 Oct 2024 15:17	vial B pH<2 TB	JC\MD	Ok
11	P4440-02	BPOW6-11-TB-202410	VN084437.D	21 Oct 2024 15:41	vial B pH<2 TB	JC\MD	Ok
12	P4438-02	BP-VPB-190-EB-20241	VN084438.D	21 Oct 2024 16:05	vial B pH<2 EB	JC\MD	Ok
13	P4438-04	BP-VPB-190-GW-58-60	VN084439.D	21 Oct 2024 16:29	vial B pH<2	JC\MD	Ok
14	P4438-05	BP-VPB-190-GW-98-10	VN084440.D	21 Oct 2024 16:53	vial B pH<2	JC\MD	Ok
15	P4438-06	BP-VPB-190-GW-158-1	VN084441.D	21 Oct 2024 17:17	vial B pH<2	JC\MD	Ok
16	P4438-07	BP-VPB-190-GW-198-2	VN084442.D	21 Oct 2024 17:40	vial B pH<2	JC\MD	Ok
17	P4440-01	BPOW6-11-HYD-20241	VN084443.D	21 Oct 2024 18:04	vial B pH<2	JC\MD	Ok
18	P4471-03	TB100824	VN084444.D	21 Oct 2024 18:28	vial A pH<2 TB	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102124

Review By	John Carlone	Review On	10/22/2024 9:50:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/22/2024 3:37:17 PM		
SubDirectory	VN102124	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130983
Initial Calibration Stds	
CCC	VP130986,VP130987
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4460-05	TB-10182024	VN084445.D	21 Oct 2024 18:52	vial A pH<2 TB	JC\MD	Ok
20	P4460-06	WB-303-SW	VN084446.D	21 Oct 2024 19:16	vial A pH<2	JC\MD	Ok
21	VN1021MBS02	VN1021MBS02	VN084447.D	21 Oct 2024 19:40		JC\MD	Ok,M
22	VSTDCCC050	VSTDCCC050EC	VN084448.D	21 Oct 2024 20:04		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100924

Review By	Mahesh Dadoda	Review On	10/10/2024 10:09:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/10/2024 10:11:49 PM		
SubDirectory	VY100924	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP130736
Initial Calibration Stds	VP130737,VP130738,VP130739,VP130740,VP130741,VP130742
CCC	VP130744,VP130745
Internal Standard/PEM	VP128297
ICV/I.BLK	VP130746
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019826.D	09 Oct 2024 09:33		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY019827.D	09 Oct 2024 10:18		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY019828.D	09 Oct 2024 10:41		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY019829.D	09 Oct 2024 11:04		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY019830.D	09 Oct 2024 11:26	Comp. #11 is on Linear Regression	SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY019831.D	09 Oct 2024 11:49		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY019832.D	09 Oct 2024 12:11		SY/MD	Ok,M
8	VIBLK	VIBLK	VY019833.D	09 Oct 2024 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY100924	VY019834.D	09 Oct 2024 15:25		SY/MD	Ok,M
10	VY1009SBL01	VY1009SBL01	VY019835.D	09 Oct 2024 16:11		SY/MD	Ok
11	VY1009SBS01	VY1009SBS01	VY019836.D	09 Oct 2024 16:41		SY/MD	Ok,M
12	VY1009SBSD01	VY1009SBSD01	VY019837.D	09 Oct 2024 17:04		SY/MD	Ok,M
13	P4343-01	EO-03-100724	VY019838.D	09 Oct 2024 17:27	vial-B Not purged	SY/MD	Not Ok
14	P4353-02	CF-400-VOC-43	VY019839.D	09 Oct 2024 17:51	vial-A	SY/MD	Ok
15	P4359-01	EXCAVATION-SOIL	VY019840.D	09 Oct 2024 18:14	vial-A	SY/MD	Ok
16	P4344-01	TR-05-100724	VY019841.D	09 Oct 2024 18:38	vial-B	SY/MD	Ok
17	VSTDCCC050	VSTDCCC050EC	VY019842.D	09 Oct 2024 19:00		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102224

Review By	Mahesh Dadoda	Review On	10/23/2024 1:02:15 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 6:36:46 AM		
SubDirectory	VY102224	HP Acquire Method		HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131009
Initial Calibration Stds	
CCC	VP131010,VP131011
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019968.D	22 Oct 2024 08:49		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019969.D	22 Oct 2024 10:01		SY/MD	Ok,M
3	VY1022SBL01	VY1022SBL01	VY019970.D	22 Oct 2024 10:36		SY/MD	Ok
4	VY1022SBS01	VY1022SBS01	VY019971.D	22 Oct 2024 11:16		SY/MD	Ok,M
5	VY1022SBSD01	VY1022SBSD01	VY019972.D	22 Oct 2024 11:38		SY/MD	Ok,M
6	P4460-03	WB-303-BOT	VY019973.D	22 Oct 2024 12:02	vial-B	SY/MD	Ok,M
7	P4467-03	TP-1-VOC	VY019974.D	22 Oct 2024 12:26	vial-B	SY/MD	Ok
8	P4460-02	WB-303-TOP	VY019975.D	22 Oct 2024 12:49	vial-B	SY/MD	Ok
9	P4472-06	BP-F-6-VOC	VY019976.D	22 Oct 2024 13:13	vial-B	SY/MD	Ok
10	P4472-02	BP-F-28-VOC	VY019977.D	22 Oct 2024 13:36	vial-B	SY/MD	Ok
11	VIBLK	VIBLK	VY019978.D	22 Oct 2024 13:59	Clean up	SY/MD	Ok
12	P4471-01	B-180-SB01	VY019979.D	22 Oct 2024 14:23	vial-A	SY/MD	Ok
13	P4471-02	B-180-SB02	VY019980.D	22 Oct 2024 14:46	vial-A Internal standard fail	SY/MD	ReRun
14	P4470-01	CL-01-102124	VY019981.D	22 Oct 2024 15:58	vial-A	SY/MD	Ok
15	P4474-01	TS-2	VY019982.D	22 Oct 2024 16:21	vial-A Internal standard fail	SY/MD	ReRun
16	VSTDCCC050	VSTDCCC050EC	VY019983.D	22 Oct 2024 16:44		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102324

Review By	Mahesh Dadoda	Review On	10/24/2024 2:47:28 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/24/2024 2:50:12 PM		
SubDirectory	VY102324	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100924s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131048
Initial Calibration Stds	
CCC	VP131049,VP131050
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY019984.D	23 Oct 2024 08:51		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY019985.D	23 Oct 2024 10:58		SY/MD	Ok,M
3	VY1023SBL01	VY1023SBL01	VY019986.D	23 Oct 2024 11:35		SY/MD	Ok
4	VY1023SBS01	VY1023SBS01	VY019987.D	23 Oct 2024 12:20		SY/MD	Ok,M
5	VY1023SBSD01	VY1023SBSD01	VY019988.D	23 Oct 2024 12:43		SY/MD	Ok,M
6	P4487-07	BP-B27-VOC	VY019989.D	23 Oct 2024 13:12	vial-A	SY/MD	Ok
7	P4487-05	BP-F27	VY019990.D	23 Oct 2024 13:35	vial-A	SY/MD	Ok
8	P4487-03	BP-B5-VOC	VY019991.D	23 Oct 2024 13:59	vial-A	SY/MD	Ok
9	P4487-01	BP-B5	VY019992.D	23 Oct 2024 14:22	Internal Standard Fail vial-A	SY/MD	ReRun
10	P4471-02	B-180-SB02	VY019993.D	23 Oct 2024 14:45	vial-B	SY/MD	Ok
11	P4486-01	EO-03-102224	VY019994.D	23 Oct 2024 15:09	Internal Standard Fail vial-A	SY/MD	ReRun
12	P4473-01	TS-1	VY019995.D	23 Oct 2024 15:32	Internal Standard Fail vial-A	SY/MD	ReRun
13	P4474-01RE	TS-2RE	VY019996.D	23 Oct 2024 15:56	Internal Standard Fail vial-B	SY/MD	Confirms
14	P4489-01	RT-2675	VY019997.D	23 Oct 2024 16:19	vial- A Internal Standard Fail; Need MEOH	SY/MD	Dilution
15	VIBLK	VIBLK	VY019998.D	23 Oct 2024 16:43		SY/MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VY019999.D	23 Oct 2024 17:05		SY/MD	Ok,M

M : Manual Integration

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

LAB CHRONICLE

OrderID:	P4471	**OrderDate:**	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	**B-180-SB01**	**SOIL**			**10/19/24**			**10/21/24**
			VOC-TCLVOA-10	8260D			10/22/24	
P4471-02	**B-180-SB02**	**SOIL**			**10/20/24**			**10/21/24**
			VOC-TCLVOA-10	8260D			10/23/24	
P4471-03	**TB100824**	**Water**			**10/08/24**			**10/21/24**
			VOC-TCLVOA-10	8260-Low			10/21/24	

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Hit Summary Sheet
SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-180-SB01**								
P4471-01	B-180-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	2,200.000	JB	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	n-Hexadecanoic acid	*	260.000	J	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	Trifluoroacetoxy hexadecane	*	160.000	J	0	0	ug/Kg
			Total Tics :		**3,030.00**				
			Total Concentration:		**3,030.00**				
Client ID :	**B-180-SB02**								
P4471-02	B-180-SB02	SOIL	.alpha.-Pinene	*	6,600.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	.gamma.-Sitosterol	*	480.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1,2-15,16-Diepoxyhexadecane	*	3,100.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1,21-Docosadiene	*	420.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1,4-Dimethyl-8-isopropylidenetric	*	700.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	9(1H)-Phenanthrenone, 2,3,4,4a,1	*	830.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Bicyclo[2.2.1]heptan-2-one, 1,7,7-	*	1,200.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	3,400.000	JB	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Camphene	*	400.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Dehydroabietic acid	*	400.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Docosanoic acid	*	420.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	endo-Borneol	*	470.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Fenchol	*	510.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Heptadecyl heptafluorobutyrate	*	910.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Hexacosane	*	400.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	n-Hexadecanoic acid	*	710.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Octadecyl trifluoroacetate	*	1,100.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	p-Cymene	*	1,000.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Terpinen-4-ol	*	550.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	unknown13.533	*	370.000	J	0	0	ug/Kg
			Total Tics :		**23,970.00**				
			Total Concentration:		**23,970.00**				

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:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	400	ug/Kg
108-95-2	Phenol	99.9	U	99.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	200	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	200	ug/Kg
95-48-7	2-Methylphenol	97.1	U	97.1	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	96.2	U	96.2	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	48.6	U	48.6	96.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	200	ug/Kg
98-95-3	Nitrobenzene	110	U	110	200	ug/Kg
78-59-1	Isophorone	100	U	100	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	100	U	100	200	ug/Kg
120-83-2	2,4-Dichlorophenol	91.0	U	91.0	200	ug/Kg
91-20-3	Naphthalene	99.6	U	99.6	200	ug/Kg
106-47-8	4-Chloroaniline	99.6	U	99.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	200	ug/Kg
105-60-2	Caprolactam	100	U	100	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	93.4	U	93.4	200	ug/Kg
91-57-6	2-Methylnaphthalene	99.4	U	99.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	UQ	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.1	U	86.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	89.2	U	89.2	200	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	98.5	U	98.5	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	200	ug/Kg
99-09-2	3-Nitroaniline	110	U	110	200	ug/Kg
83-32-9	Acenaphthene	97.8	U	97.8	200	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	200	ug/Kg
84-66-2	Diethylphthalate	96.5	U	96.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	200	ug/Kg
86-73-7	Fluorene	100	U	100	200	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	UQ	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	98.4	U	98.4	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	95.1	U	95.1	200	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	93.2	U	93.2	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	200	ug/Kg
120-12-7	Anthracene	100	U	100	200	ug/Kg
86-74-8	Carbazole	96.8	U	96.8	200	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	200	ug/Kg
206-44-0	Fluoranthene	98.5	U	98.5	200	ug/Kg
129-00-0	Pyrene	100	U	100	200	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	U	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	97.3	U	97.3	200	ug/Kg
218-01-9	Chrysene	95.8	U	95.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	97.8	U	97.8	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	99.6	U	99.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.1	U	94.1	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	97.9	U	97.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.5	U	96.5	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.0	U	90.0	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.1		30 (18) - 130 (112)	65%	SPK: 150
13127-88-3	Phenol-d6	93.5		30 (15) - 130 (107)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		30 (18) - 130 (107)	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.3		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		30 (10) - 130 (116)	69%	SPK: 150
1718-51-0	Terphenyl-d14	68.2		30 (10) - 130 (105)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82700	6.886			
1146-65-2	Naphthalene-d8	316000	8.169			
15067-26-2	Acenaphthene-d10	171000	9.922			
1517-22-2	Phenanthrene-d10	285000	11.41			
1719-03-5	Chrysene-d12	150000	14.045			
1520-96-3	Perylene-d12	184000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2200	JB		2.19	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.12	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	260	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	160	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

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:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	370	U	370	670	ug/Kg
108-95-2	Phenol	170	U	170	350	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	170	350	ug/Kg
95-57-8	2-Chlorophenol	170	U	170	350	ug/Kg
95-48-7	2-Methylphenol	160	U	160	350	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	180	U	180	350	ug/Kg
98-86-2	Acetophenone	180	U	180	350	ug/Kg
65794-96-9	3+4-Methylphenols	160	U	160	670	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	81.9	U	81.9	160	ug/Kg
67-72-1	Hexachloroethane	170	U	170	350	ug/Kg
98-95-3	Nitrobenzene	180	U	180	350	ug/Kg
78-59-1	Isophorone	170	U	170	350	ug/Kg
88-75-5	2-Nitrophenol	190	U	190	350	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	190	350	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	170	350	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	150	350	ug/Kg
91-20-3	Naphthalene	170	U	170	350	ug/Kg
106-47-8	4-Chloroaniline	170	U	170	350	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	170	350	ug/Kg
105-60-2	Caprolactam	180	U	180	670	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	160	350	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	170	350	ug/Kg
77-47-4	Hexachlorocyclopentadiene	320	UQ	320	670	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	150	350	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	150	350	ug/Kg
92-52-4	1,1-Biphenyl	180	U	180	350	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	170	350	ug/Kg
88-74-4	2-Nitroaniline	190	U	190	350	ug/Kg
131-11-3	Dimethylphthalate	170	U	170	350	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	180	U	180	350	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	170	350	ug/Kg
99-09-2	3-Nitroaniline	180	U	180	350	ug/Kg
83-32-9	Acenaphthene	160	U	160	350	ug/Kg
51-28-5	2,4-Dinitrophenol	490	U	490	670	ug/Kg
100-02-7	4-Nitrophenol	240	U	240	670	ug/Kg
132-64-9	Dibenzofuran	170	U	170	350	ug/Kg
121-14-2	2,4-Dinitrotoluene	180	U	180	350	ug/Kg
84-66-2	Diethylphthalate	160	U	160	350	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	170	350	ug/Kg
86-73-7	Fluorene	170	U	170	350	ug/Kg
100-01-6	4-Nitroaniline	220	U	220	350	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	240	UQ	240	670	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	170	350	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	160	350	ug/Kg
118-74-1	Hexachlorobenzene	170	U	170	350	ug/Kg
1912-24-9	Atrazine	190	U	190	350	ug/Kg
87-86-5	Pentachlorophenol	160	U	160	670	ug/Kg
85-01-8	Phenanthrene	170	U	170	350	ug/Kg
120-12-7	Anthracene	170	U	170	350	ug/Kg
86-74-8	Carbazole	160	U	160	350	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	170	350	ug/Kg
206-44-0	Fluoranthene	170	U	170	350	ug/Kg
129-00-0	Pyrene	170	U	170	350	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	200	350	ug/Kg
91-94-1	3,3-Dichlorobenzidine	200	U	200	670	ug/Kg
56-55-3	Benzo(a)anthracene	160	U	160	350	ug/Kg
218-01-9	Chrysene	160	U	160	350	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	U	180	350	ug/Kg
117-84-0	Di-n-octyl phthalate	220	U	220	670	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	U	160	350	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	170	350	ug/Kg
50-32-8	Benzo(a)pyrene	190	U	190	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	160	350	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	U	160	350	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	180	350	ug/Kg
123-91-1	1,4-Dioxane	220	U	220	350	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	150	350	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	84.0		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	81.8		30 (15) - 130 (107)	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.2		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.1		30 (20) - 130 (109)	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.0		30 (10) - 130 (116)	55%	SPK: 150
1718-51-0	Terphenyl-d14	41.0		30 (10) - 130 (105)	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	141000	6.887			
1146-65-2	Naphthalene-d8	539000	8.169			
15067-26-2	Acenaphthene-d10	296000	9.922			
1517-22-2	Phenanthrene-d10	471000	11.41			
1719-03-5	Chrysene-d12	239000	14.045			
1520-96-3	Perylene-d12	267000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3400	JB		2.22	ug/Kg
000080-56-8	.alpha.-Pinene	6600	J		6.17	ug/Kg
000079-92-5	Camphene	400	J		6.34	ug/Kg
000099-87-6	p-Cymene	1000	J		6.96	ug/Kg
001632-73-1	Fenchol	510	J		7.70	ug/Kg
000464-48-2	Bicyclo[2.2.1]heptan-2-one, 1,7,7-	1200	J		7.92	ug/Kg
000507-70-0	endo-Borneol	470	J		8.07	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000562-74-3	Terpinen-4-ol	550	J		8.11	ug/Kg
000057-10-3	n-Hexadecanoic acid	710	J		11.9	ug/Kg
	unknown13.533	370	J		13.5	ug/Kg
053057-53-7	1,21-Docosadiene	420	J		13.7	ug/Kg
001740-19-8	Dehydroabietic acid	400	J		13.8	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	910	J		13.9	ug/Kg
000112-85-6	Docosanoic acid	420	J		14.1	ug/Kg
079392-43-1	Octadecyl trifluoroacetate	1100	J		14.5	ug/Kg
000630-01-3	Hexacosane	400	J		15.2	ug/Kg
000083-47-6	.gamma.-Sitosterol	480	J		17.6	ug/Kg
000511-05-7	9(1H)-Phenanthrenone, 2,3,4,4a,10,	830	J		17.7	ug/Kg
1010140-07-7	1,4-Dimethyl-8-isopropylidenetricy	700	J		18.0	ug/Kg
1000192-65-0	1,2-15,16-Diepoxyhexadecane	3100	J		18.2	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

QC SUMMARY

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

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4467-01MS	TP-1MS	2-Fluorophenol	150	83.4	56		30 (18)	130 (112)
		Phenol-d6	150	81.7	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.8	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.9	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	96.0	64		30 (10)	130 (116)
		Terphenyl-d14	100	55.7	56		30 (10)	130 (105)
P4467-01MSD	TP-1MSD	2-Fluorophenol	150	94.9	63		30 (18)	130 (112)
		Phenol-d6	150	92.7	62		30 (15)	130 (107)
		Nitrobenzene-d5	100	70.6	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.2	68		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	110	74		30 (10)	130 (116)
		Terphenyl-d14	100	64.9	65		30 (10)	130 (105)
P4471-01	B-180-SB01	2-Fluorophenol	150	97.1	65		30 (18)	130 (112)
		Phenol-d6	150	93.5	62		30 (15)	130 (107)
		Nitrobenzene-d5	100	75.8	76		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.3	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	104	69		30 (10)	130 (116)
		Terphenyl-d14	100	68.2	68		30 (10)	130 (105)
P4471-02	B-180-SB02	2-Fluorophenol	150	84.0	56		30 (18)	130 (112)
		Phenol-d6	150	81.8	55		30 (15)	130 (107)
		Nitrobenzene-d5	100	67.2	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	52.1	52		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	83.0	55		30 (10)	130 (116)
		Terphenyl-d14	100	41.0	41		30 (10)	130 (105)
PB164312BL	PB164312BL	2-Fluorophenol	150	131	87		30 (18)	130 (112)
		Phenol-d6	150	126	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	96.5	96		30 (18)	130 (107)
		2-Fluorobiphenyl	100	93.3	93		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	158	105		30 (10)	130 (116)
		Terphenyl-d14	100	92.9	93		30 (10)	130 (105)
PB164312BS	PB164312BS	2-Fluorophenol	150	129	86		30 (18)	130 (112)
		Phenol-d6	150	126	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	99.4	99		30 (18)	130 (107)
		2-Fluorobiphenyl	100	93.9	94		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	157	104		30 (10)	130 (116)
		Terphenyl-d14	100	105	105		30 (10)	130 (105)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

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: P4467-01MS		**Client Sample ID: TP-1MS**						**DataFile: BF140004.D**			
Benzaldehyde	1100	0	290	ug/Kg	26				20 (10)	160 (86)	
Phenol	1100	0	960	ug/Kg	87				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1100	0	950	ug/Kg	86				70 (54)	130 (125)	
2-Chlorophenol	1100	0	990	ug/Kg	90				70 (79)	130 (107)	
2-Methylphenol	1100	0	960	ug/Kg	87				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1100	0	910	ug/Kg	83				70 (65)	130 (110)	
Acetophenone	1100	0	950	ug/Kg	86				70 (75)	130 (111)	
3+4-Methylphenols	1100	0	920	ug/Kg	84				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1100	0	930	ug/Kg	85				70 (59)	130 (119)	
Hexachloroethane	1100	0	940	ug/Kg	85				20 (65)	160 (117)	
Nitrobenzene	1100	0	930	ug/Kg	85				70 (70)	130 (119)	
Isophorone	1100	0	970	ug/Kg	88				70 (76)	130 (122)	
2-Nitrophenol	1100	0	1200	ug/Kg	109				70 (54)	130 (145)	
2,4-Dimethylphenol	1100	0	1100	ug/Kg	100				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1100	0	950	ug/Kg	86				70 (68)	130 (112)	
2,4-Dichlorophenol	1100	0	1000	ug/Kg	91				70 (72)	130 (118)	
Naphthalene	1100	0	950	ug/Kg	86				70 (72)	130 (110)	
4-Chloroaniline	1100	0	350	ug/Kg	32	*			70 (10)	130 (91)	
Hexachlorobutadiene	1100	0	970	ug/Kg	88				70 (66)	130 (114)	
Caprolactam	1100	0	990	ug/Kg	90				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1100	0	960	ug/Kg	87				70 (57)	130 (132)	
2-Methylnaphthalene	1100	0	970	ug/Kg	88				70 (59)	130 (123)	
Hexachlorocyclopentadiene	2200	0	3500	ug/Kg	159				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1100	0	1000	ug/Kg	91				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1100	0	990	ug/Kg	90				70 (72)	130 (117)	
1,1-Biphenyl	1100	0	980	ug/Kg	89				70 (75)	130 (113)	
2-Chloronaphthalene	1100	0	960	ug/Kg	87				70 (67)	130 (118)	
2-Nitroaniline	1100	0	1100	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1100	0	1000	ug/Kg	91				70 (70)	130 (113)	
Acenaphthylene	1100	0	1000	ug/Kg	91				70 (79)	130 (118)	
2,6-Dinitrotoluene	1100	0	1000	ug/Kg	91				70 (70)	130 (125)	
3-Nitroaniline	1100	0	660	ug/Kg	60	*			70 (30)	130 (99)	
Acenaphthene	1100	0	1100	ug/Kg	100				70 (70)	130 (121)	
2,4-Dinitrophenol	2200	0	2200	ug/Kg	100				20 (10)	160 (155)	
4-Nitrophenol	2200	0	2000	ug/Kg	91				20 (45)	160 (133)	
Dibenzofuran	1100	0	980	ug/Kg	89				70 (72)	130 (110)	
2,4-Dinitrotoluene	1100	0	1100	ug/Kg	100				70 (55)	130 (128)	
Diethylphthalate	1100	0	990	ug/Kg	90				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1100	0	980	ug/Kg	89				70 (71)	130 (108)	
Fluorene	1100	0	960	ug/Kg	87				70 (68)	130 (116)	
4-Nitroaniline	1100	0	1000	ug/Kg	91				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1100	0	1300	ug/Kg	118				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1100	0	1000	ug/Kg	91				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1100	0	1000	ug/Kg	91				70 (65)	130 (121)	
Hexachlorobenzene	1100	0	1000	ug/Kg	91				70 (67)	130 (118)	
Atrazine	1100	0	1200	ug/Kg	109				70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

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	2200	0	1800	ug/Kg	82				20 (47)	160 (128)	
Phenanthrene	1100	0	980	ug/Kg	89				70 (52)	130 (128)	
Anthracene	1100	0	1000	ug/Kg	91				70 (62)	130 (124)	
Carbazole	1100	0	910	ug/Kg	83				70 (59)	130 (119)	
Di-n-butylphthalate	1100	0	1000	ug/Kg	91				70 (69)	130 (118)	
Fluoranthene	1100	0	860	ug/Kg	78				70 (44)	130 (125)	
Pyrene	1100	0	910	ug/Kg	83				70 (26)	130 (142)	
Butylbenzylphthalate	1100	0	1200	ug/Kg	109				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1100	0	780	ug/Kg	71				70 (33)	130 (116)	
Benzo(a)anthracene	1100	0	1000	ug/Kg	91				70 (71)	130 (114)	
Chrysene	1100	0	980	ug/Kg	89				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1100	0	1300	ug/Kg	118				70 (42)	130 (169)	
Di-n-octyl phthalate	1100	0	1200	ug/Kg	109				70 (23)	130 (175)	
Benzo(b)fluoranthene	1100	0	880	ug/Kg	80				70 (67)	130 (121)	
Benzo(k)fluoranthene	1100	0	1000	ug/Kg	91				70 (57)	130 (134)	
Benzo(a)pyrene	1100	0	1100	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1100	0	1000	ug/Kg	91				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1100	0	1000	ug/Kg	91				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1100	0	870	ug/Kg	79				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1100	0	990	ug/Kg	90				70 (69)	130 (124)	
1,4-Dioxane	1100	0	840	ug/Kg	76				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1100	0	1000	ug/Kg	91				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

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: P4467-01MSD		**Client Sample ID: TP-1MSD**						**DataFile: BF140005.D**			
Benzaldehyde	1100	0	340	ug/Kg	31		18		20 (10)	160 (86)	30 (20)
Phenol	1100	0	1100	ug/Kg	100		14		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1100	0	1100	ug/Kg	100		15		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1100	0	1100	ug/Kg	100		11		70 (79)	130 (107)	30 (20)
2-Methylphenol	1100	0	1100	ug/Kg	100		14		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1100	0	1000	ug/Kg	91		9		70 (65)	130 (110)	30 (20)
Acetophenone	1100	0	1100	ug/Kg	100		15		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1100	0	1100	ug/Kg	100		17		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1100	0	1100	ug/Kg	100		16		70 (59)	130 (119)	30 (20)
Hexachloroethane	1100	0	1100	ug/Kg	100		16		20 (65)	160 (117)	30 (20)
Nitrobenzene	1100	0	1100	ug/Kg	100		16		70 (70)	130 (119)	30 (20)
Isophorone	1100	0	1100	ug/Kg	100		13		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1100	0	1400	ug/Kg	127		15		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1100	0	1300	ug/Kg	118		17		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1100	0	1100	ug/Kg	100		15		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1100	0	1100	ug/Kg	100		9		70 (72)	130 (118)	30 (20)
Naphthalene	1100	0	1100	ug/Kg	100		15		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1100	0	390	ug/Kg	35	*	9		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1100	0	1100	ug/Kg	100		13		70 (66)	130 (114)	30 (20)
Caprolactam	1100	0	1100	ug/Kg	100		11		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1100	0	1100	ug/Kg	100		14		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1100	0	1100	ug/Kg	100		13		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	2200	0	4000	ug/Kg	182	*	13		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1100	0	1200	ug/Kg	109		18		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1100	0	1100	ug/Kg	100		11		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1100	0	1100	ug/Kg	100		12		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1100	0	1100	ug/Kg	100		14		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1100	0	1200	ug/Kg	109		9		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1100	0	1200	ug/Kg	109		18		70 (70)	130 (113)	30 (20)
Acenaphthylene	1100	0	1200	ug/Kg	109		18		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1100	0	1200	ug/Kg	109		18		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1100	0	750	ug/Kg	68	*	13		70 (30)	130 (99)	30 (20)
Acenaphthene	1100	0	1200	ug/Kg	109		9		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	2200	0	2400	ug/Kg	109		9		20 (10)	160 (155)	30 (20)
4-Nitrophenol	2200	0	2300	ug/Kg	105		14		20 (45)	160 (133)	30 (20)
Dibenzofuran	1100	0	1100	ug/Kg	100		12		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1100	0	1300	ug/Kg	118		17		70 (55)	130 (128)	30 (20)
Diethylphthalate	1100	0	1100	ug/Kg	100		11		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1100	0	1100	ug/Kg	100		12		70 (71)	130 (108)	30 (20)
Fluorene	1100	0	1100	ug/Kg	100		14		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1100	0	1200	ug/Kg	109		18		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1100	0	1500	ug/Kg	136	*	14		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1100	0	1200	ug/Kg	109		18		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1100	0	1200	ug/Kg	109		18		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1100	0	1200	ug/Kg	109		18		70 (67)	130 (118)	30 (20)
Atrazine	1100	0	1400	ug/Kg	127		15		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

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	2200	0	2100	ug/Kg	95		15		20 (47)	160 (128)	30 (20)
Phenanthrene	1100	0	1100	ug/Kg	100		12		70 (52)	130 (128)	30 (20)
Anthracene	1100	0	1200	ug/Kg	109		18		70 (62)	130 (124)	30 (20)
Carbazole	1100	0	1100	ug/Kg	100		19		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1100	0	1200	ug/Kg	109		18		70 (69)	130 (118)	30 (20)
Fluoranthene	1100	0	1000	ug/Kg	91		15		70 (44)	130 (125)	30 (20)
Pyrene	1100	0	1000	ug/Kg	91		9		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1100	0	1300	ug/Kg	118		8		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1100	0	820	ug/Kg	75		5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1100	0	1200	ug/Kg	109		18		70 (71)	130 (114)	30 (20)
Chrysene	1100	0	1100	ug/Kg	100		12		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1100	0	1500	ug/Kg	136	*	14		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1100	0	1400	ug/Kg	127		15		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1100	0	1000	ug/Kg	91		13		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1100	0	1200	ug/Kg	109		18		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1100	0	1200	ug/Kg	109		9		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1100	0	1200	ug/Kg	109		18		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1100	0	1200	ug/Kg	109		18		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1100	0	990	ug/Kg	90		13		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1100	0	1200	ug/Kg	109		19		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1100	0	960	ug/Kg	87		13		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1100	0	1200	ug/Kg	109		18		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139992.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164312BS	Benzaldehyde	1700	500	ug/Kg	29				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1600	ug/Kg	94				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1900	ug/Kg	112				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1800	ug/Kg	106				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1500	ug/Kg	88				70 (62)	130 (100)	
	4-Chloroaniline	1700	1200	ug/Kg	71				70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	6000	ug/Kg	182		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1700	ug/Kg	100				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	1300	ug/Kg	76				70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	4300	ug/Kg	130				20 (37)	160 (128)	
	4-Nitrophenol	3300	3400	ug/Kg	103				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				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	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2300	ug/Kg	135		*		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)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139992.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164312BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1800	ug/Kg	106				70 (47)	130 (152)	
	Pentachlorophenol	3300	3200	ug/Kg	97				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				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	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1500	ug/Kg	88				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	1700	ug/Kg	100				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				70 (53)	130 (101)	
	1,4-Dioxane	1700	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164312BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF139991.D Lab Sample ID: PB164312BL

Instrument ID: BNA_F Date Extracted: 10/22/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/24/2024

Level: (low/med) LOW Time Analyzed: 10:23

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164312BS	PB164312BS	BF139992.D	10/24/2024
B-180-SB01	P4471-01	BF140011.D	10/24/2024
B-180-SB02	P4471-02	BF140064.D	10/26/2024
TP-1MS	P4467-01MS	BF140004.D	10/24/2024
TP-1MSD	P4467-01MSD	BF140005.D	10/24/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	93.1
443	15.0 - 24.0% of mass 442	17.9 (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
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF139989.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	29.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	37.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	14.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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	BF139990.D	10/24/2024	09:55
PB164312BL	PB164312BL	BF139991.D	10/24/2024	10:23
PB164312BS	PB164312BS	BF139992.D	10/24/2024	10:52

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF140000.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40
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 (0.7) 1
127	10.0 - 80.0% of mass 198	44.2
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	6.7
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 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	BF140001.D	10/24/2024	15:16
TP-1MS	P4467-01MS	BF140004.D	10/24/2024	16:48
TP-1MSD	P4467-01MSD	BF140005.D	10/24/2024	17:17
B-180-SB01	P4471-01	BF140011.D	10/24/2024	20:08

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF140049.D DFTPP Injection Date: 10/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.5
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	6.5
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	93.5
443	15.0 - 24.0% of mass 442	18.1 (19.4) 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	BF140050.D	10/26/2024	10:38
B-180-SB02	P4471-02	BF140064.D	10/26/2024	17:16

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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	160242	6.892	587754	8.18	322730	9.93
	UPPER LIMIT	320484	7.392	1175510	8.675	645460	10.428
	LOWER LIMIT	80121	6.392	293877	7.675	161365	9.428
	EPA SAMPLE NO.						
01	PB164312BL	147139	6.89	571542	8.17	324595	9.93
02	PB164312BS	158670	6.89	605986	8.18	338004	9.93

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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	552693	11.416	268892	14.057	303963	15.533
	UPPER LIMIT	1105390	11.916	537784	14.557	607926	16.033
	LOWER LIMIT	276347	10.916	134446	13.557	151982	15.033
	EPA SAMPLE NO.						
01	PB164312BL	586249	11.41	355232	14.05	286763	15.53
02	PB164312BS	591954	11.42	292113	14.06	314861	15.53

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	162461	6.892	593909	8.18	325446	9.93
	UPPER LIMIT	324922	7.392	1187820	8.675	650892	10.428
	LOWER LIMIT	81230.5	6.392	296955	7.675	162723	9.428
	EPA SAMPLE NO.						
01	TP-1MS	151264	6.89	576250	8.18	315137	9.93
02	TP-1MSD	131947	6.89	501368	8.18	271082	9.93
03	B-180-SB01	82696	6.89	315895	8.17	171301	9.92

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	551060	11.416	264546	14.051	308388	15.533
	UPPER LIMIT	1102120	11.916	529092	14.551	616776	16.033
	LOWER LIMIT	275530	10.916	132273	13.551	154194	15.033
	EPA SAMPLE NO.						
01	TP-1MS	529411	11.42	267551	14.05	360724	15.53
02	TP-1MSD	450738	11.42	233244	14.05	308426	15.53
03	B-180-SB01	285460	11.41	149838	14.05	184288	15.53

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	128827	6.892	465620	8.18	252523	9.93
	UPPER LIMIT	257654	7.392	931240	8.675	505046	10.428
	LOWER LIMIT	64413.5	6.392	232810	7.675	126262	9.428
	EPA SAMPLE NO.						
01	B-180-SB02	140732	6.89	538776	8.17	296372	9.92

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	452033	11.416	241717	14.051	235878	15.533
	UPPER LIMIT	904066	11.916	483434	14.551	471756	16.033
	LOWER LIMIT	226017	10.916	120859	13.551	117939	15.033
	EPA SAMPLE NO.						
01	B-180-SB02	470615	11.41	239328	14.05	267329	15.53

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

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 2024	Date Received:	
Client Sample ID:	PB164312BL	SDG No.:	P4471
Lab Sample ID:	PB164312BL	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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

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	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	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	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BL	SDG No.:	P4471
Lab Sample ID:	PB164312BL	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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	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	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	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	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BL	SDG No.:	P4471
Lab Sample ID:	PB164312BL	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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	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	131		30 (18) - 130 (112)	87%	SPK: 150
13127-88-3	Phenol-d6	126		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.5		30 (18) - 130 (107)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.3		30 (20) - 130 (109)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		30 (10) - 130 (116)	105%	SPK: 150
1718-51-0	Terphenyl-d14	92.9		30 (10) - 130 (105)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.892			
1146-65-2	Naphthalene-d8	572000	8.169			
15067-26-2	Acenaphthene-d10	325000	9.928			
1517-22-2	Phenanthrene-d10	586000	11.41			
1719-03-5	Chrysene-d12	355000	14.051			
1520-96-3	Perylene-d12	287000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	110	J		2.23	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	A		5.13	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164312BL			SDG No.:	P4471
Lab Sample ID:	PB164312BL			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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

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:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BS	SDG No.:	P4471
Lab Sample ID:	PB164312BS	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
BF139992.D	1	10/22/24 10:44	10/24/24 10:52	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	500		180	330	ug/Kg
108-95-2	Phenol	1500		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1600		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1900		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.4	170	ug/Kg
91-20-3	Naphthalene	1500		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	1200		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6000	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1700		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.6	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BS	SDG No.:	P4471
Lab Sample ID:	PB164312BS	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
BF139992.D	1	10/22/24 10:44	10/24/24 10:52	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1300		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4300	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3400	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.5	170	ug/Kg
86-73-7	Fluorene	1500		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2300		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		84.9	170	ug/Kg
1912-24-9	Atrazine	1800		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1600		83.9	170	ug/Kg
120-12-7	Anthracene	1600		84.3	170	ug/Kg
86-74-8	Carbazole	1500		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1500		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	170	ug/Kg
218-01-9	Chrysene	1600		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		81.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BS	SDG No.:	P4471
Lab Sample ID:	PB164312BS	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
BF139992.D	1	10/22/24 10:44	10/24/24 10:52	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	129		30 (18) - 130 (112)	86%	SPK: 150
13127-88-3	Phenol-d6	126		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.4		30 (18) - 130 (107)	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		30 (20) - 130 (109)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		30 (10) - 130 (116)	104%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (10) - 130 (105)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	159000	6.892			
1146-65-2	Naphthalene-d8	606000	8.175			
15067-26-2	Acenaphthene-d10	338000	9.927			
1517-22-2	Phenanthrene-d10	592000	11.416			
1719-03-5	Chrysene-d12	292000	14.057			
1520-96-3	Perylene-d12	315000	15.533			

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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MS	SDG No.:	P4471
Lab Sample ID:	P4467-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.03 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
BF140004.D	1	10/22/24 10:44	10/24/24 16:48	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290		120	220	ug/Kg
108-95-2	Phenol	960		54.8	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	950		55.3	110	ug/Kg
95-57-8	2-Chlorophenol	990		55.2	110	ug/Kg
95-48-7	2-Methylphenol	960		53.3	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	910		60.1	110	ug/Kg
98-86-2	Acetophenone	950		57.5	110	ug/Kg
65794-96-9	3+4-Methylphenols	920		52.8	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	930		26.6	52.9	ug/Kg
67-72-1	Hexachloroethane	940		54.9	110	ug/Kg
98-95-3	Nitrobenzene	930		60.0	110	ug/Kg
78-59-1	Isophorone	970		55.9	110	ug/Kg
88-75-5	2-Nitrophenol	1200		62.5	110	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		61.6	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	950		56.7	110	ug/Kg
120-83-2	2,4-Dichlorophenol	1000		49.9	110	ug/Kg
91-20-3	Naphthalene	950		54.6	110	ug/Kg
106-47-8	4-Chloroaniline	350		54.6	110	ug/Kg
87-68-3	Hexachlorobutadiene	970		55.1	110	ug/Kg
105-60-2	Caprolactam	990		57.4	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	960		51.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	970		54.5	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3500	E	100	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		47.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	990		48.9	110	ug/Kg
92-52-4	1,1-Biphenyl	980		57.8	110	ug/Kg
91-58-7	2-Chloronaphthalene	960		55.1	110	ug/Kg
88-74-4	2-Nitroaniline	1100		62.8	110	ug/Kg
131-11-3	Dimethylphthalate	1000		54.0	110	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MS	SDG No.:	P4471
Lab Sample ID:	P4467-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.03 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
BF140004.D	1	10/22/24 10:44	10/24/24 16:48	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1000		57.2	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		55.0	110	ug/Kg
99-09-2	3-Nitroaniline	660		59.0	110	ug/Kg
83-32-9	Acenaphthene	1100		53.6	110	ug/Kg
51-28-5	2,4-Dinitrophenol	2200	E	160	220	ug/Kg
100-02-7	4-Nitrophenol	2000	E	76.7	220	ug/Kg
132-64-9	Dibenzofuran	980		55.8	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		57.0	110	ug/Kg
84-66-2	Diethylphthalate	990		53.0	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	980		56.6	110	ug/Kg
86-73-7	Fluorene	960		56.5	110	ug/Kg
100-01-6	4-Nitroaniline	1000		70.7	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1300		77.4	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1000		53.9	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		52.2	110	ug/Kg
118-74-1	Hexachlorobenzene	1000		56.2	110	ug/Kg
1912-24-9	Atrazine	1200		60.4	110	ug/Kg
87-86-5	Pentachlorophenol	1800	E	51.1	220	ug/Kg
85-01-8	Phenanthrene	980		55.5	110	ug/Kg
120-12-7	Anthracene	1000		55.8	110	ug/Kg
86-74-8	Carbazole	910		53.1	110	ug/Kg
84-74-2	Di-n-butylphthalate	1000		55.7	110	ug/Kg
206-44-0	Fluoranthene	860		54.0	110	ug/Kg
129-00-0	Pyrene	910		54.9	110	ug/Kg
85-68-7	Butylbenzylphthalate	1200		64.0	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	780		65.2	220	ug/Kg
56-55-3	Benzo(a)anthracene	1000		53.4	110	ug/Kg
218-01-9	Chrysene	980		52.6	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1300		60.2	110	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		72.7	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	880		53.6	110	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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MS	SDG No.:	P4471
Lab Sample ID:	P4467-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.03 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
BF140004.D	1	10/22/24 10:44	10/24/24 16:48	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1000		54.6	110	ug/Kg
50-32-8	Benzo(a)pyrene	1100		61.5	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		51.6	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		53.7	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	870		53.0	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	990		57.4	110	ug/Kg
123-91-1	1,4-Dioxane	840		72.7	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		49.4	110	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	83.4		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	81.7		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.8		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.9		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.0		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	55.7		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	151000	6.893			
1146-65-2	Naphthalene-d8	576000	8.175			
15067-26-2	Acenaphthene-d10	315000	9.928			
1517-22-2	Phenanthrene-d10	529000	11.416			
1719-03-5	Chrysene-d12	268000	14.051			
1520-96-3	Perylene-d12	361000	15.533			

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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MSD	SDG No.:	P4471
Lab Sample ID:	P4467-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.06 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
BF140005.D	1	10/22/24 10:44	10/24/24 17:17	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	340		120	220	ug/Kg
108-95-2	Phenol	1100		54.8	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		55.3	110	ug/Kg
95-57-8	2-Chlorophenol	1100		55.2	110	ug/Kg
95-48-7	2-Methylphenol	1100		53.3	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		60.1	110	ug/Kg
98-86-2	Acetophenone	1100		57.4	110	ug/Kg
65794-96-9	3+4-Methylphenols	1100		52.7	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		26.6	52.9	ug/Kg
67-72-1	Hexachloroethane	1100		54.8	110	ug/Kg
98-95-3	Nitrobenzene	1100		60.0	110	ug/Kg
78-59-1	Isophorone	1100		55.9	110	ug/Kg
88-75-5	2-Nitrophenol	1400		62.4	110	ug/Kg
105-67-9	2,4-Dimethylphenol	1300		61.6	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		56.7	110	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		49.9	110	ug/Kg
91-20-3	Naphthalene	1100		54.6	110	ug/Kg
106-47-8	4-Chloroaniline	390		54.6	110	ug/Kg
87-68-3	Hexachlorobutadiene	1100		55.0	110	ug/Kg
105-60-2	Caprolactam	1100		57.4	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		51.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	1100		54.5	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	100	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1200		47.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		48.9	110	ug/Kg
92-52-4	1,1-Biphenyl	1100		57.7	110	ug/Kg
91-58-7	2-Chloronaphthalene	1100		55.0	110	ug/Kg
88-74-4	2-Nitroaniline	1200		62.8	110	ug/Kg
131-11-3	Dimethylphthalate	1200		54.0	110	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MSD	SDG No.:	P4471
Lab Sample ID:	P4467-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.06 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
BF140005.D	1	10/22/24 10:44	10/24/24 17:17	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1200		57.2	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	1200		55.0	110	ug/Kg
99-09-2	3-Nitroaniline	750		58.9	110	ug/Kg
83-32-9	Acenaphthene	1200		53.6	110	ug/Kg
51-28-5	2,4-Dinitrophenol	2400	E	160	220	ug/Kg
100-02-7	4-Nitrophenol	2300	E	76.6	220	ug/Kg
132-64-9	Dibenzofuran	1100		55.8	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	1300		57.0	110	ug/Kg
84-66-2	Diethylphthalate	1100		52.9	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		56.6	110	ug/Kg
86-73-7	Fluorene	1100		56.5	110	ug/Kg
100-01-6	4-Nitroaniline	1200		70.7	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		77.3	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1200		53.9	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1200		52.1	110	ug/Kg
118-74-1	Hexachlorobenzene	1200		56.2	110	ug/Kg
1912-24-9	Atrazine	1400		60.4	110	ug/Kg
87-86-5	Pentachlorophenol	2100	E	51.1	220	ug/Kg
85-01-8	Phenanthrene	1100		55.5	110	ug/Kg
120-12-7	Anthracene	1200		55.8	110	ug/Kg
86-74-8	Carbazole	1100		53.1	110	ug/Kg
84-74-2	Di-n-butylphthalate	1200		55.7	110	ug/Kg
206-44-0	Fluoranthene	1000		54.0	110	ug/Kg
129-00-0	Pyrene	1000		54.8	110	ug/Kg
85-68-7	Butylbenzylphthalate	1300		64.0	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	820		65.1	220	ug/Kg
56-55-3	Benzo(a)anthracene	1200		53.3	110	ug/Kg
218-01-9	Chrysene	1100		52.5	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		60.1	110	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		72.7	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		53.6	110	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MSD	SDG No.:	P4471
Lab Sample ID:	P4467-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.06 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
BF140005.D	1	10/22/24 10:44	10/24/24 17:17	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1200		54.6	110	ug/Kg
50-32-8	Benzo(a)pyrene	1200		61.4	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1200		51.6	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1200		53.7	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	990		52.9	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		57.4	110	ug/Kg
123-91-1	1,4-Dioxane	960		72.7	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1200		49.4	110	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	94.9		30 (18) - 130 (112)	63%	SPK: 150
13127-88-3	Phenol-d6	92.7		30 (15) - 130 (107)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.6		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.2		30 (20) - 130 (109)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		30 (10) - 130 (116)	74%	SPK: 150
1718-51-0	Terphenyl-d14	64.9		30 (10) - 130 (105)	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.893			
1146-65-2	Naphthalene-d8	501000	8.175			
15067-26-2	Acenaphthene-d10	271000	9.928			
1517-22-2	Phenanthrene-d10	451000	11.416			
1719-03-5	Chrysene-d12	233000	14.051			
1520-96-3	Perylene-d12	308000	15.527			

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 09:55

Lab File ID: BF139990.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.208		-5.5	
Benzaldehyde	0.931	0.831		-10.7	
Phenol-d6	1.655	1.504		-9.1	
Phenol	1.706	1.572		-7.9	20.0
bis(2-Chloroethyl)ether	1.319	1.218		-7.7	
2-Chlorophenol	1.306	1.240		-5.1	
2-Methylphenol	1.114	1.030		-7.5	
2,2-oxybis(1-Chloropropane)	2.248	1.937		-13.8	
Acetophenone	0.490	0.464		-5.3	
3+4-Methylphenols	1.424	1.299		-8.8	
n-Nitroso-di-n-propylamine	1.004	0.880	0.050	-12.4	
Nitrobenzene-d5	0.361	0.374		3.6	
Hexachloroethane	0.534	0.521		-2.4	
Nitrobenzene	0.396	0.392		-1.0	
Isophorone	0.685	0.644		-6.0	
2-Nitrophenol	0.149	0.177		18.8	20.0
2,4-Dimethylphenol	0.249	0.234		-6.0	
bis(2-Chloroethoxy)methane	0.415	0.394		-5.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.003		-2.7	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.202		2.5	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.299		-4.8	20.0
2-Methylnaphthalene	0.632	0.616		-2.5	
Hexachlorocyclopentadiene	0.188	0.207	0.050	10.1	
2,4,6-Trichlorophenol	0.382	0.403		5.5	20.0
2-Fluorobiphenyl	1.210	1.183		-2.2	
2,4,5-Trichlorophenol	0.394	0.395		0.3	
1,1-Biphenyl	1.392	1.371		-1.5	
2-Chloronaphthalene	1.121	1.110		-1.0	
2-Nitroaniline	0.343	0.362		5.5	
Dimethylphthalate	1.246	1.208		-3.0	
Acenaphthylene	1.621	1.581		-2.5	
2,6-Dinitrotoluene	0.270	0.286		5.9	
3-Nitroaniline	0.278	0.284		2.2	
Acenaphthene	1.049	1.051		0.2	20.0
2,4-Dinitrophenol	0.093	0.148	0.050	59.1	
4-Nitrophenol	0.214	0.229	0.050	7.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 09:55

Lab File ID: BF139990.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.448		-3.8	
2,4-Dinitrotoluene	0.332	0.371		11.7	
Diethylphthalate	1.223	1.175		-3.9	
4-Chlorophenyl-phenylether	0.579	0.580		0.2	
Fluorene	1.146	1.110		-3.1	
4-Nitroaniline	0.263	0.259		-1.5	
4,6-Dinitro-2-methylphenol	0.082	0.117		42.7	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.205		9.6	
4-Bromophenyl-phenylether	0.206	0.216		4.9	
Hexachlorobenzene	0.232	0.240		3.4	
Atrazine	0.162	0.161		-0.6	
Pentachlorophenol	0.141	0.164		16.3	20.0
Phenanthrene	0.945	0.917		-3.0	
Anthracene	0.922	0.908		-1.5	
Carbazole	0.857	0.802		-6.4	
Di-n-butylphthalate	0.990	0.948		-4.2	
Fluoranthene	0.955	0.903		-5.4	20.0
Pyrene	1.751	1.844		5.3	
Terphenyl-d14	1.227	1.286		4.8	
Butylbenzylphthalate	0.525	0.536		2.1	
3,3-Dichlorobenzidine	0.380	0.412		8.4	
Benzo(a)anthracene	1.302	1.275		-2.1	
Chrysene	1.194	1.140		-4.5	
Bis(2-ethylhexyl)phthalate	0.589	0.640		8.7	
Di-n-octyl phthalate	1.071	1.138		6.3	20.0
Benzo(b)fluoranthene	1.218	1.075		-11.7	
Benzo(k)fluoranthene	1.051	1.055		0.4	
Benzo(a)pyrene	1.002	0.994		-0.8	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.421		10.4	
Dibenzo(a,h)anthracene	1.073	1.182		10.2	
Benzo(g,h,i)perylene	1.072	1.222		14.0	
1,2,4,5-Tetrachlorobenzene	0.540	0.551		2.0	
1,4-Dioxane	0.596	0.552		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.322		4.2	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.208		-5.5	
Benzaldehyde	0.931	0.931		0.0	
Phenol-d6	1.655	1.521		-8.1	
Phenol	1.706	1.601		-6.2	20.0
bis(2-Chloroethyl)ether	1.319	1.259		-4.5	
2-Chlorophenol	1.306	1.259		-3.6	
2-Methylphenol	1.114	1.047		-6.0	
2,2-oxybis(1-Chloropropane)	2.248	1.948		-13.3	
Acetophenone	0.490	0.472		-3.7	
3+4-Methylphenols	1.424	1.322		-7.2	
n-Nitroso-di-n-propylamine	1.004	0.889	0.050	-11.5	
Nitrobenzene-d5	0.361	0.374		3.6	
Hexachloroethane	0.534	0.526		-1.5	
Nitrobenzene	0.396	0.397		0.3	
Isophorone	0.685	0.655		-4.4	
2-Nitrophenol	0.149	0.178		19.5	20.0
2,4-Dimethylphenol	0.249	0.238		-4.4	
bis(2-Chloroethoxy)methane	0.415	0.407		-1.9	
2,4-Dichlorophenol	0.283	0.285		0.7	20.0
Naphthalene	1.031	1.015		-1.6	
4-Chloroaniline	0.352	0.336		-4.5	
Hexachlorobutadiene	0.197	0.203		3.0	20.0
Caprolactam	0.090	0.089		-1.1	
4-Chloro-3-methylphenol	0.314	0.306		-2.5	20.0
2-Methylnaphthalene	0.632	0.623		-1.4	
Hexachlorocyclopentadiene	0.188	0.199	0.050	5.9	
2,4,6-Trichlorophenol	0.382	0.387		1.3	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
1,1-Biphenyl	1.392	1.393		0.1	
2-Chloronaphthalene	1.121	1.127		0.5	
2-Nitroaniline	0.343	0.369		7.6	
Dimethylphthalate	1.246	1.232		-1.1	
Acenaphthylene	1.621	1.600		-1.3	
2,6-Dinitrotoluene	0.270	0.292		8.1	
3-Nitroaniline	0.278	0.285		2.5	
Acenaphthene	1.049	1.061		1.1	20.0
2,4-Dinitrophenol	0.093	0.142	0.050	52.7	
4-Nitrophenol	0.214	0.216	0.050	0.9	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.482		-1.5	
2,4-Dinitrotoluene	0.332	0.371		11.7	
Diethylphthalate	1.223	1.183		-3.3	
4-Chlorophenyl-phenylether	0.579	0.577		-0.3	
Fluorene	1.146	1.115		-2.7	
4-Nitroaniline	0.263	0.268		1.9	
4,6-Dinitro-2-methylphenol	0.082	0.115		40.2	
n-Nitrosodiphenylamine	0.599	0.597		-0.3	20.0
2,4,6-Tribromophenol	0.187	0.207		10.7	
4-Bromophenyl-phenylether	0.206	0.220		6.8	
Hexachlorobenzene	0.232	0.242		4.3	
Atrazine	0.162	0.163		0.6	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.922		-2.4	
Anthracene	0.922	0.910		-1.3	
Carbazole	0.857	0.810		-5.5	
Di-n-butylphthalate	0.990	0.945		-4.5	
Fluoranthene	0.955	0.896		-6.2	20.0
Pyrene	1.751	1.855		5.9	
Terphenyl-d14	1.227	1.306		6.4	
Butylbenzylphthalate	0.525	0.544		3.6	
3,3-Dichlorobenzidine	0.380	0.435		14.5	
Benzo(a)anthracene	1.302	1.322		1.5	
Chrysene	1.194	1.125		-5.8	
Bis(2-ethylhexyl)phthalate	0.589	0.627		6.5	
Di-n-octyl phthalate	1.071	1.102		2.9	20.0
Benzo(b)fluoranthene	1.218	1.087		-10.8	
Benzo(k)fluoranthene	1.051	1.032		-1.8	
Benzo(a)pyrene	1.002	0.984		-1.8	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.386		7.7	
Dibenzo(a,h)anthracene	1.073	1.154		7.5	
Benzo(g,h,i)perylene	1.072	1.167		8.9	
1,2,4,5-Tetrachlorobenzene	0.540	0.560		3.7	
1,4-Dioxane	0.596	0.573		-3.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.321		3.9	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.220		-4.5	
Benzaldehyde	0.931	0.910		-2.3	
Phenol-d6	1.655	1.531		-7.5	
Phenol	1.706	1.580		-7.4	20.0
bis(2-Chloroethyl)ether	1.319	1.223		-7.3	
2-Chlorophenol	1.306	1.244		-4.7	
2-Methylphenol	1.114	1.029		-7.6	
2,2-oxybis(1-Chloropropane)	2.248	1.911		-15.0	
Acetophenone	0.490	0.475		-3.1	
3+4-Methylphenols	1.424	1.308		-8.1	
n-Nitroso-di-n-propylamine	1.004	0.873	0.050	-13.0	
Nitrobenzene-d5	0.361	0.380		5.3	
Hexachloroethane	0.534	0.520		-2.6	
Nitrobenzene	0.396	0.399		0.8	
Isophorone	0.685	0.645		-5.8	
2-Nitrophenol	0.149	0.164		10.1	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.393		-5.3	
2,4-Dichlorophenol	0.283	0.279		-1.4	20.0
Naphthalene	1.031	1.028		-0.3	
4-Chloroaniline	0.352	0.343		-2.6	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.307		-2.2	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.191	0.050	1.6	
2,4,6-Trichlorophenol	0.382	0.374		-2.1	20.0
2-Fluorobiphenyl	1.210	1.211		0.1	
2,4,5-Trichlorophenol	0.394	0.414		5.1	
1,1-Biphenyl	1.392	1.391		-0.1	
2-Chloronaphthalene	1.121	1.129		0.7	
2-Nitroaniline	0.343	0.375		9.3	
Dimethylphthalate	1.246	1.229		-1.4	
Acenaphthylene	1.621	1.628		0.4	
2,6-Dinitrotoluene	0.270	0.290		7.4	
3-Nitroaniline	0.278	0.298		7.2	
Acenaphthene	1.049	1.058		0.9	20.0
2,4-Dinitrophenol	0.093	0.126	0.050	35.5	
4-Nitrophenol	0.214	0.229	0.050	7.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.491		-0.9	
2,4-Dinitrotoluene	0.332	0.383		15.4	
Diethylphthalate	1.223	1.181		-3.4	
4-Chlorophenyl-phenylether	0.579	0.581		0.3	
Fluorene	1.146	1.149		0.3	
4-Nitroaniline	0.263	0.289		9.9	
4,6-Dinitro-2-methylphenol	0.082	0.104		26.8	
n-Nitrosodiphenylamine	0.599	0.572		-4.5	20.0
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.202		-1.9	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.156		-3.7	
Pentachlorophenol	0.141	0.152		7.8	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.901		-2.3	
Carbazole	0.857	0.832		-2.9	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.965		1.0	20.0
Pyrene	1.751	1.811		3.4	
Terphenyl-d14	1.227	1.258		2.5	
Butylbenzylphthalate	0.525	0.551		5.0	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.302	1.311		0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.606		2.9	
Di-n-octyl phthalate	1.071	0.894		-16.5	20.0
Benzo(b)fluoranthene	1.218	1.154		-5.3	
Benzo(k)fluoranthene	1.051	1.063		1.1	
Benzo(a)pyrene	1.002	1.013		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.303		1.2	
Dibenzo(a,h)anthracene	1.073	1.070		-0.3	
Benzo(g,h,i)perylene	1.072	1.111		3.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.555		2.8	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.315		1.9	

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\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Time: Oct 25 01:09:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

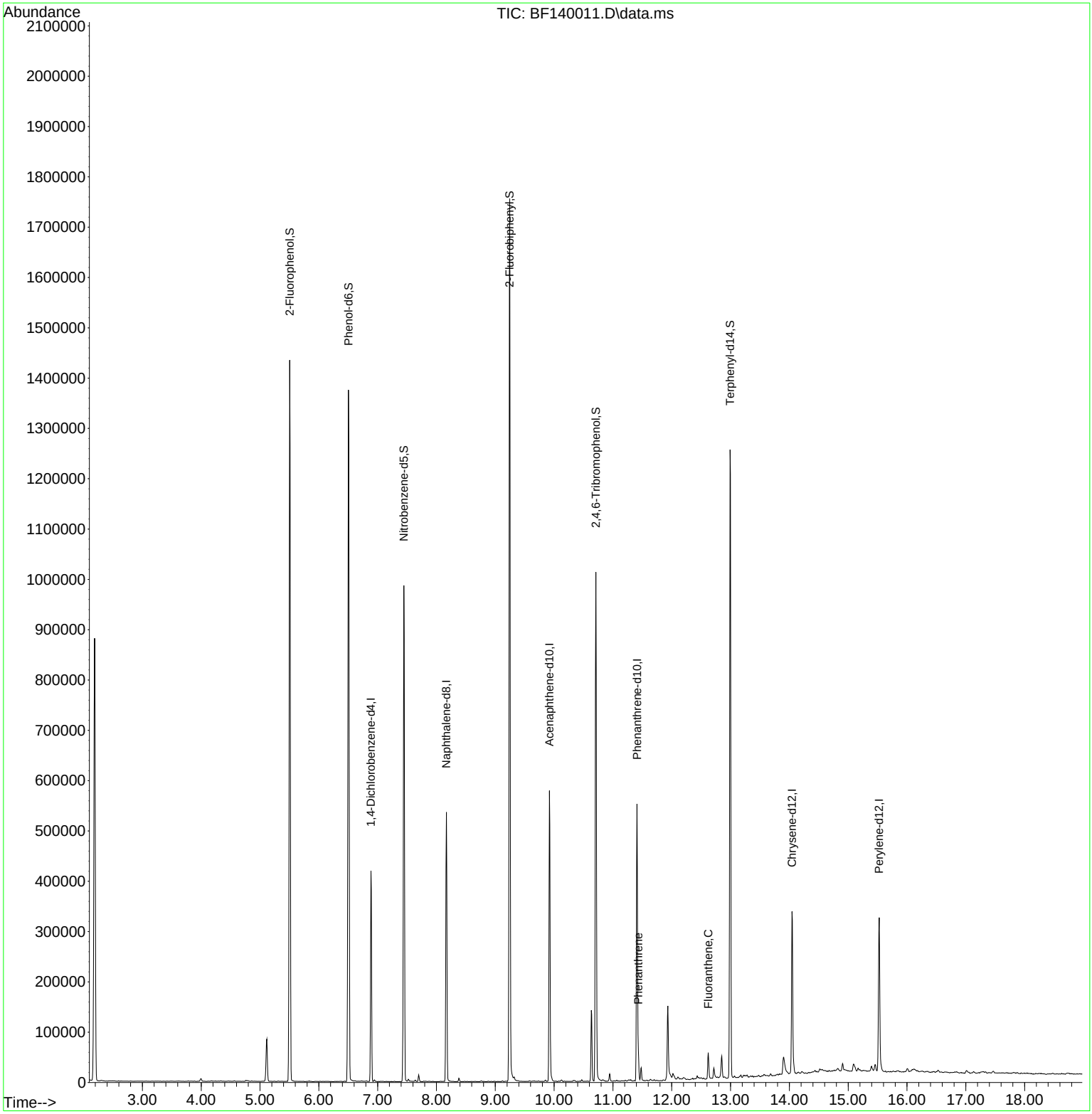
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	82696	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	315895	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	171301	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	285460	20.000	ng	0.00
76) Chrysene-d12	14.045	240	149838	20.000	ng	0.00
86) Perylene-d12	15.527	264	184288	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	513131	97.139	ng	0.00
7) Phenol-d6	6.504	99	639567	93.482	ng	0.00
23) Nitrobenzene-d5	7.445	82	431803	75.760	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	165875	103.523	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	780599	75.312	ng	0.00
79) Terphenyl-d14	12.992	244	626830	68.167	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	29353	2.177	ng	99
75) Fluoranthene	12.621	202	28237	2.071	ng	97

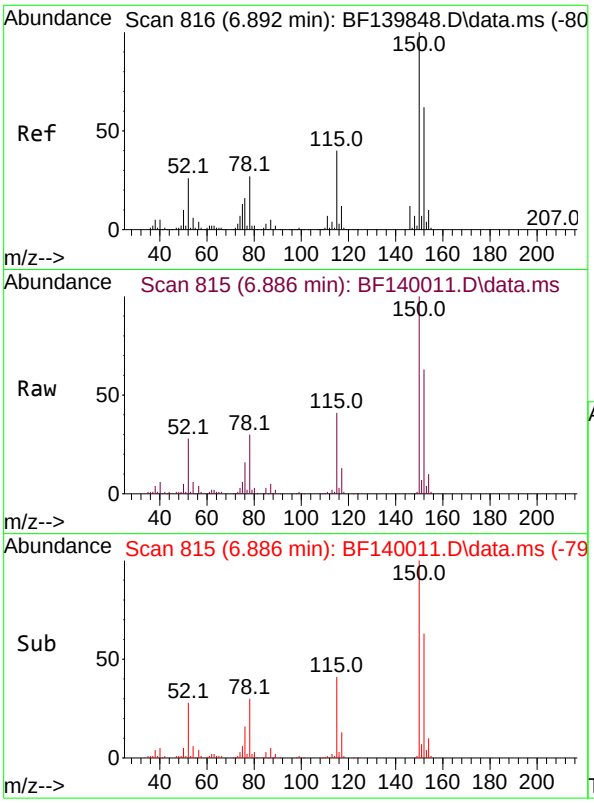
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Time: Oct 25 01:09:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



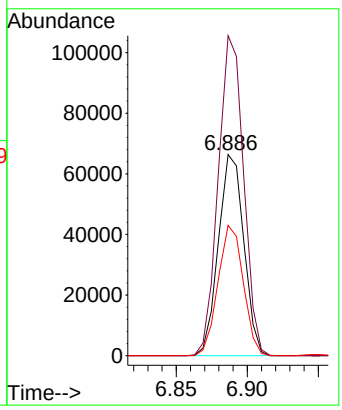


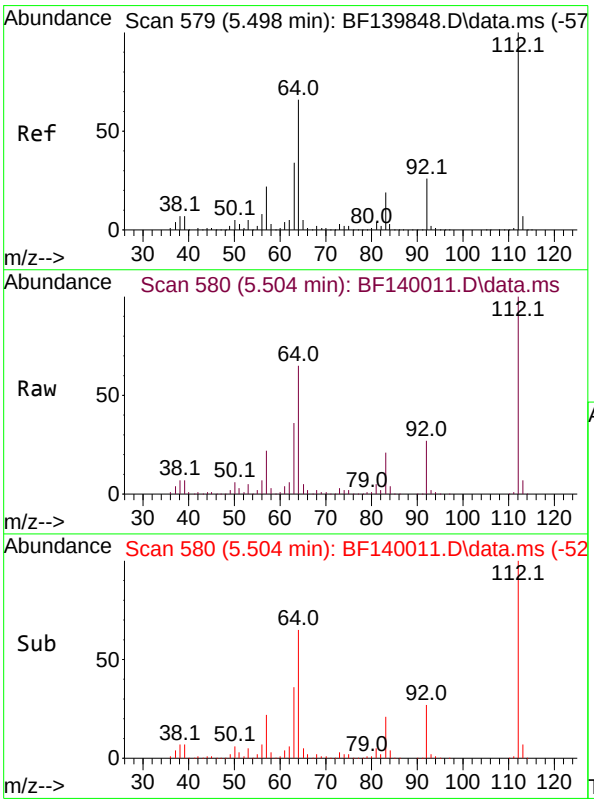
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:152 Resp: 82696

Ion	Ratio	Lower	Upper
152	100		
150	159.1	130.2	195.2
115	64.7	51.4	77.2

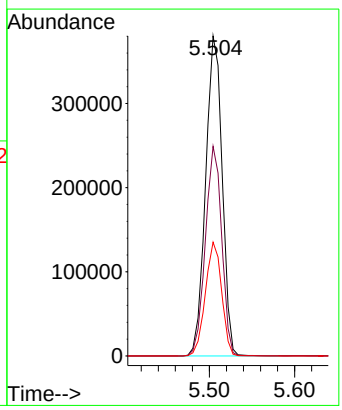


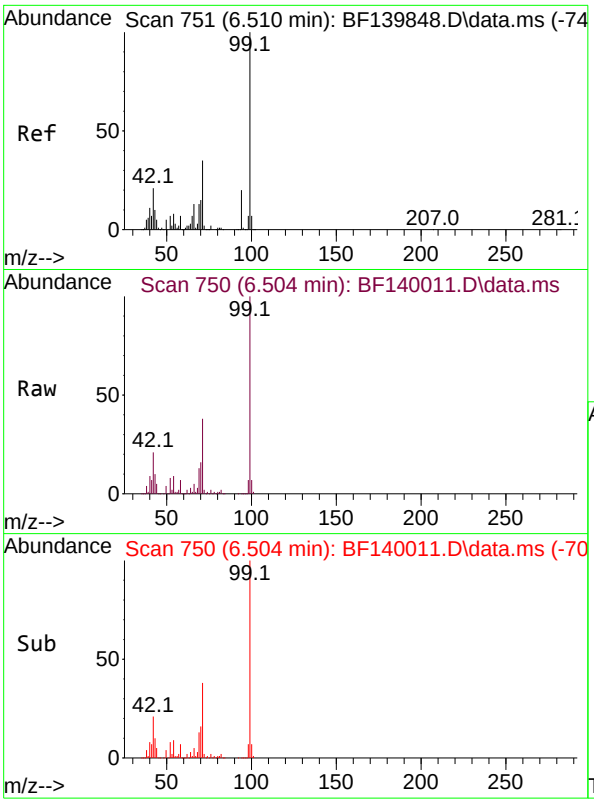


#5
2-Fluorophenol
Concen: 97.139 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:112 Resp: 513131

Ion	Ratio	Lower	Upper
112	100		
64	65.5	53.0	79.6
63	35.5	27.0	40.4



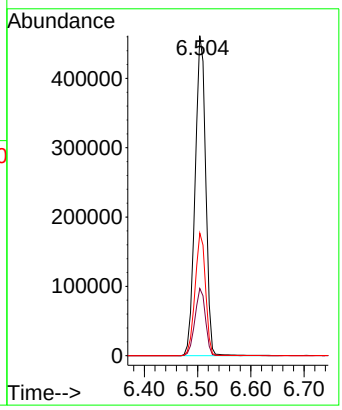


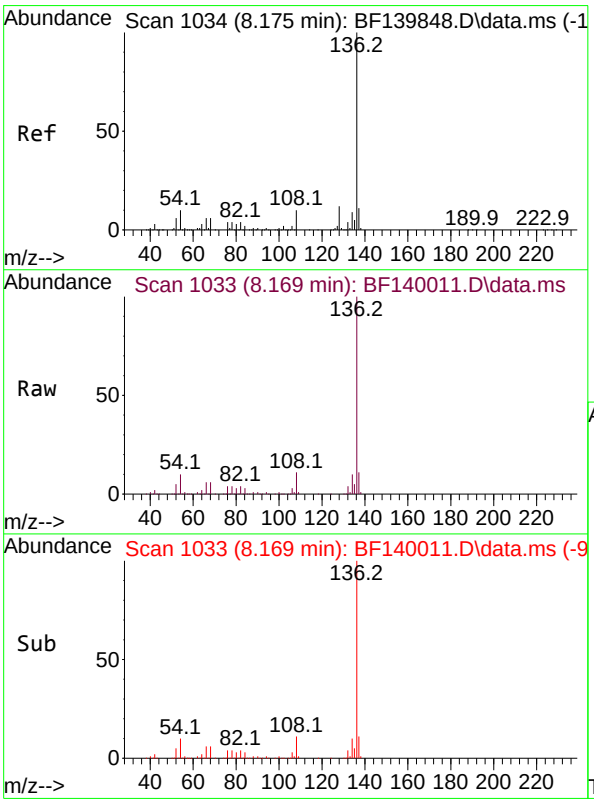
#7
Phenol-d6
Concen: 93.482 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion: 99 Resp: 639567

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.7	25.1
71	38.3	27.7	41.5

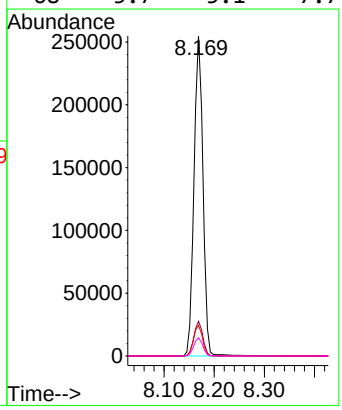


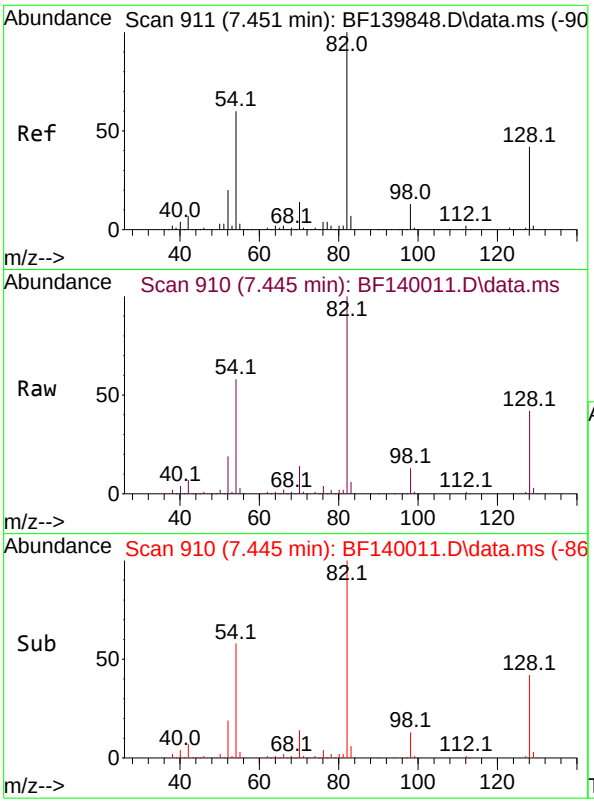


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:136 Resp: 315895

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.6	8.4	12.6
68	5.7	5.1	7.7



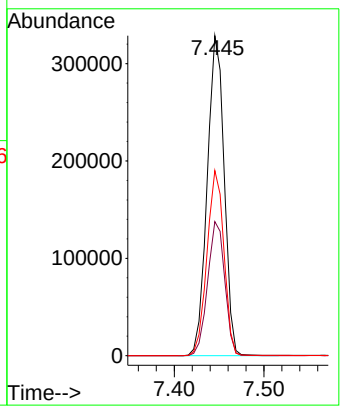


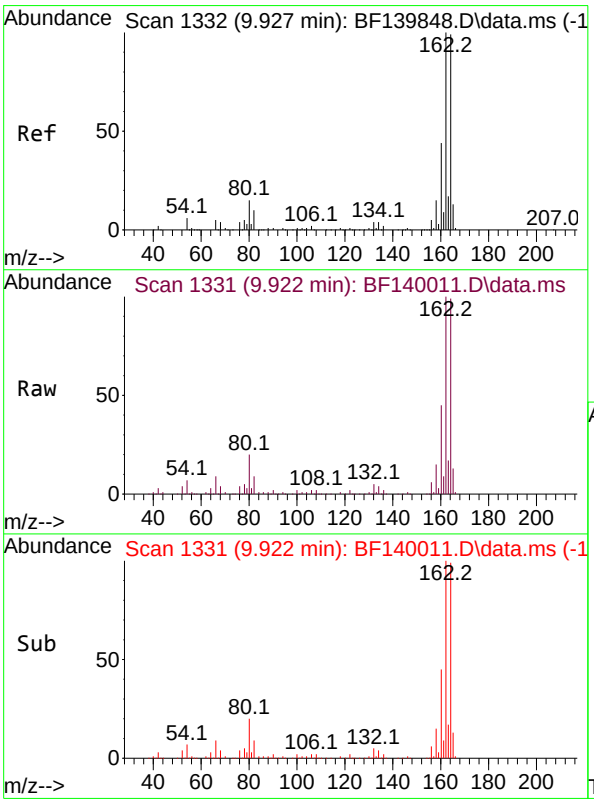
#23
Nitrobenzene-d5
Concen: 75.760 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion: 82 Resp: 431803

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	57.9	47.8	71.8

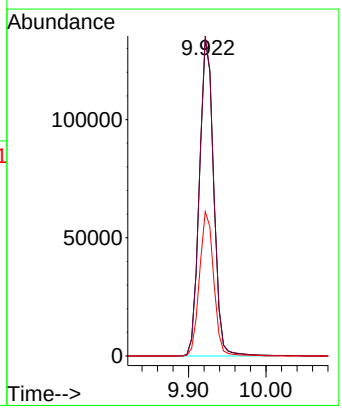


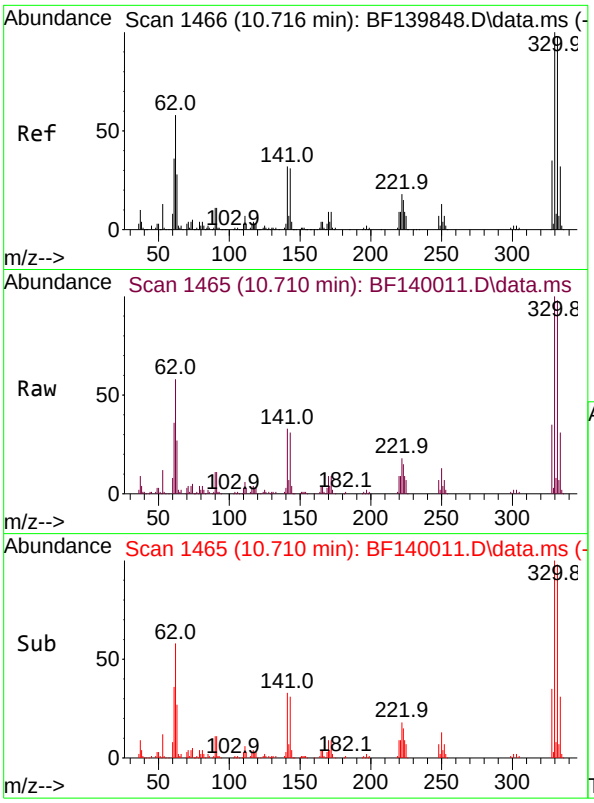


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:164 Resp: 171301

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.0	121.4
160	45.5	35.4	53.0



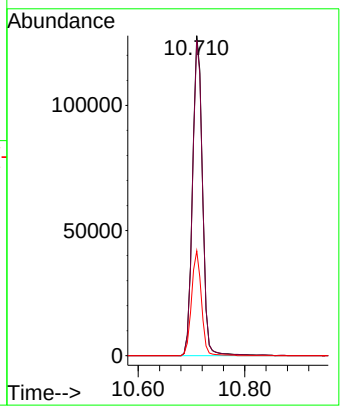


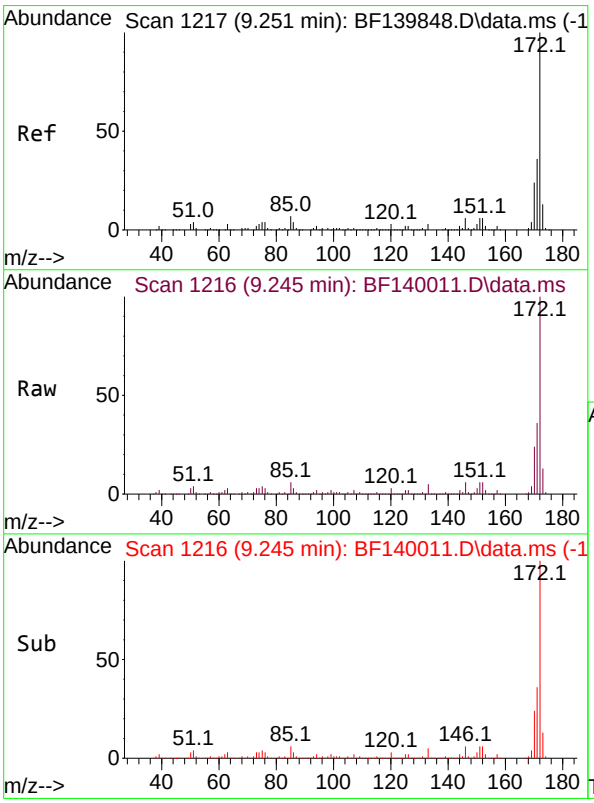
#42
2,4,6-Tribromophenol
Concen: 103.523 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:330 Resp: 165875

Ion	Ratio	Lower	Upper
330	100		
332	98.5	78.1	117.1
141	32.5	26.6	39.8

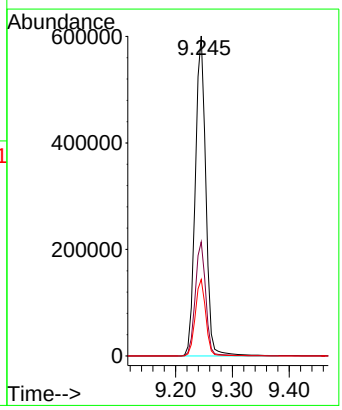


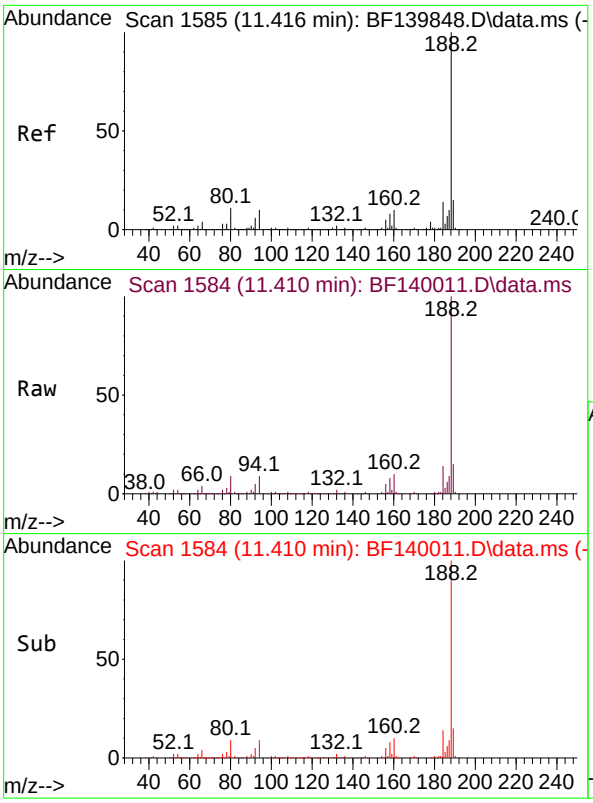


#45
2-Fluorobiphenyl
Concen: 75.312 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:172 Resp: 780599

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.9	19.1	28.7



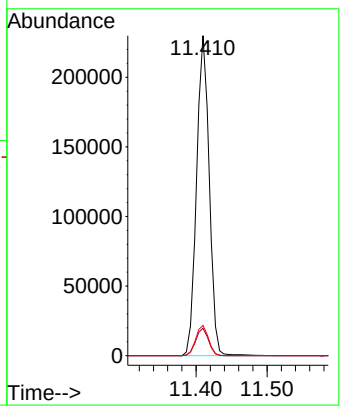


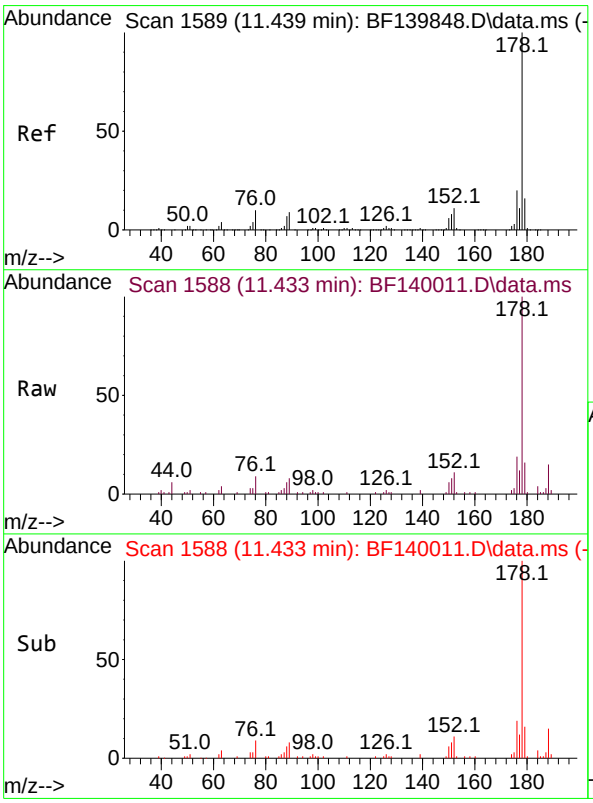
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:188 Resp: 285460

Ion	Ratio	Lower	Upper
188	100		
94	8.5	7.9	11.9
80	9.5	9.0	13.4

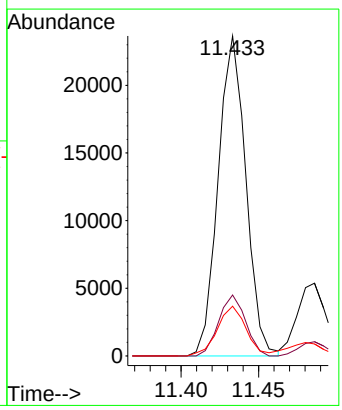


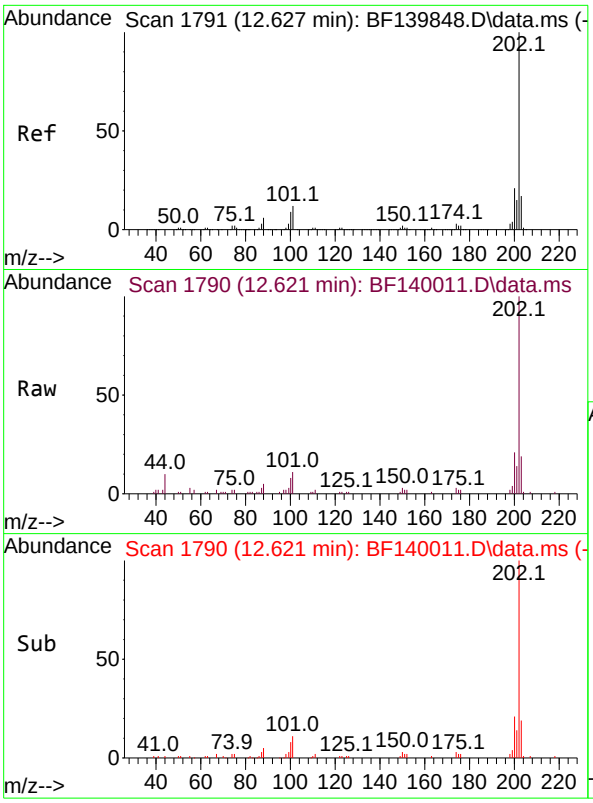


#71
Phenanthrene
Concen: 2.177 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:178 Resp: 29353

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.6
179	15.5	12.6	18.8



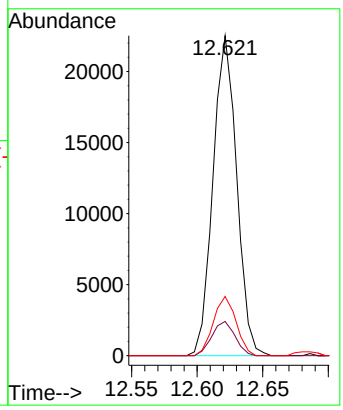


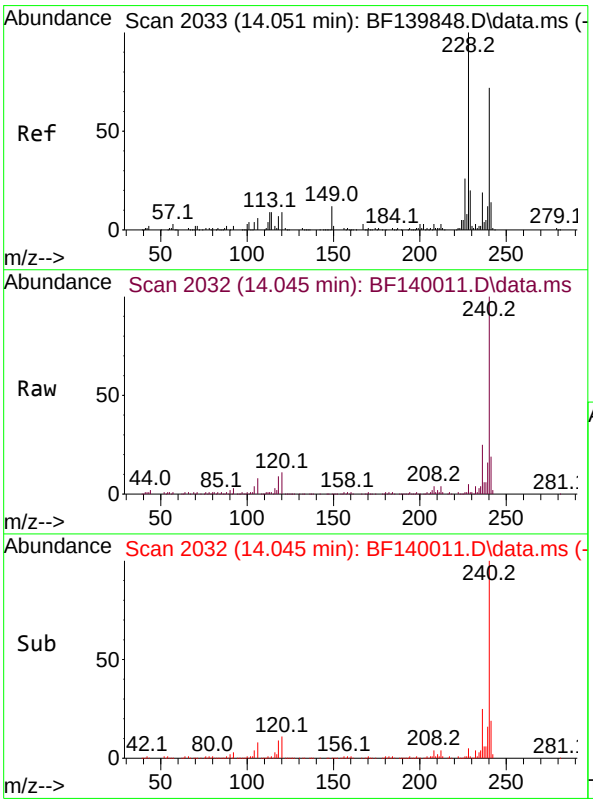
#75
Fluoranthene
Concen: 2.071 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:202 Resp: 28237

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.9
203	18.5	0.0	37.5

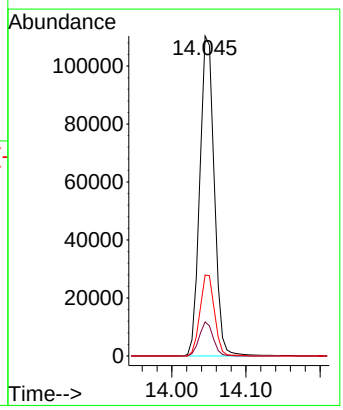


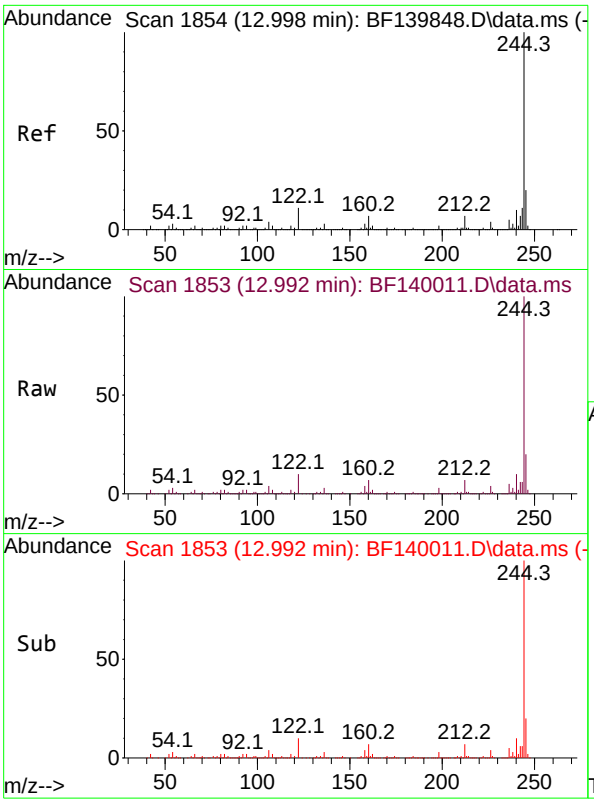


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:240 Resp: 149838

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.4	14.2
236	25.3	20.9	31.3



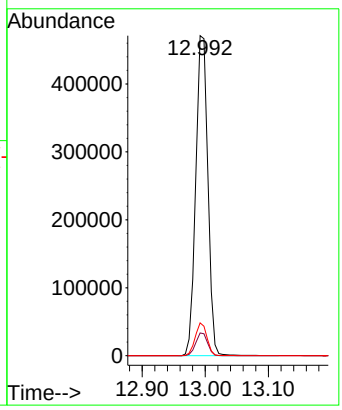


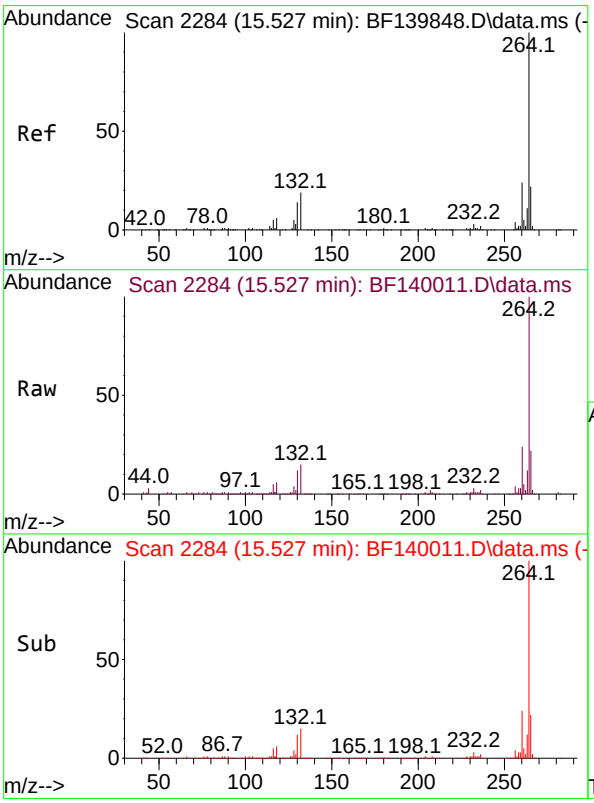
#79
Terphenyl-d14
Concen: 68.167 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:244 Resp: 626830

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	10.2	8.6	13.0

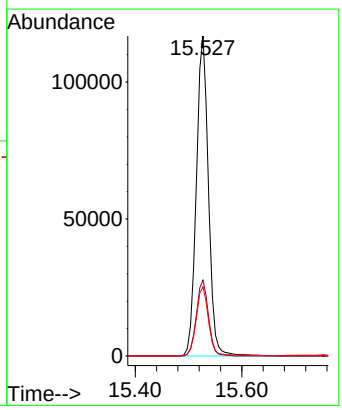




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:264 Resp: 184288

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.7	17.4	26.0



Sample Results: **BF140011.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140011.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.187	8	16	26	rVB	879577	1399066	61.79%	8.632%
2	5.116	506	514	525	rVB	83721	135040	5.96%	0.833%
3	5.504	574	580	585	rBV	1433613	1915455	84.60%	11.818%
4	6.504	744	750	756	rBV	1374639	1903204	84.06%	11.742%
5	6.886	810	815	820	rBV	418428	513151	22.66%	3.166%
6	7.445	904	910	915	rBV	985876	1293053	57.11%	7.978%
7	8.169	1028	1033	1038	rBV	534957	654773	28.92%	4.040%
8	9.245	1210	1216	1227	rBV	1754191	2264133	100.00%	13.969%
9	9.922	1326	1331	1347	rVB	577623	732588	32.36%	4.520%
10	10.633	1447	1452	1460	rBV	140896	180615	7.98%	1.114%
11	10.710	1460	1465	1482	rVV	1011179	1293578	57.13%	7.981%
12	11.410	1579	1584	1592	rBV	550615	746590	32.97%	4.606%
13	11.480	1592	1596	1600	rVB2	25021	31705	1.40%	0.196%
14	11.933	1665	1673	1685	rBV3	148107	238617	10.54%	1.472%
15	12.021	1685	1688	1698	rVB3	11108	23650	1.04%	0.146%
16	12.621	1785	1790	1797	rBV	51815	67796	2.99%	0.418%
17	12.715	1802	1806	1814	rBV3	20407	32628	1.44%	0.201%
18	12.851	1823	1829	1834	rVB	42216	60998	2.69%	0.376%
19	12.992	1848	1853	1863	rVB	1247751	1632736	72.11%	10.073%
20	13.904	2002	2008	2022	rBV4	34237	95182	4.20%	0.587%
21	14.045	2027	2032	2044	rVB	322150	469611	20.74%	2.897%
22	15.092	2206	2210	2219	rVB	13947	33151	1.46%	0.205%
23	15.527	2278	2284	2300	rVB	306034	491092	21.69%	3.030%

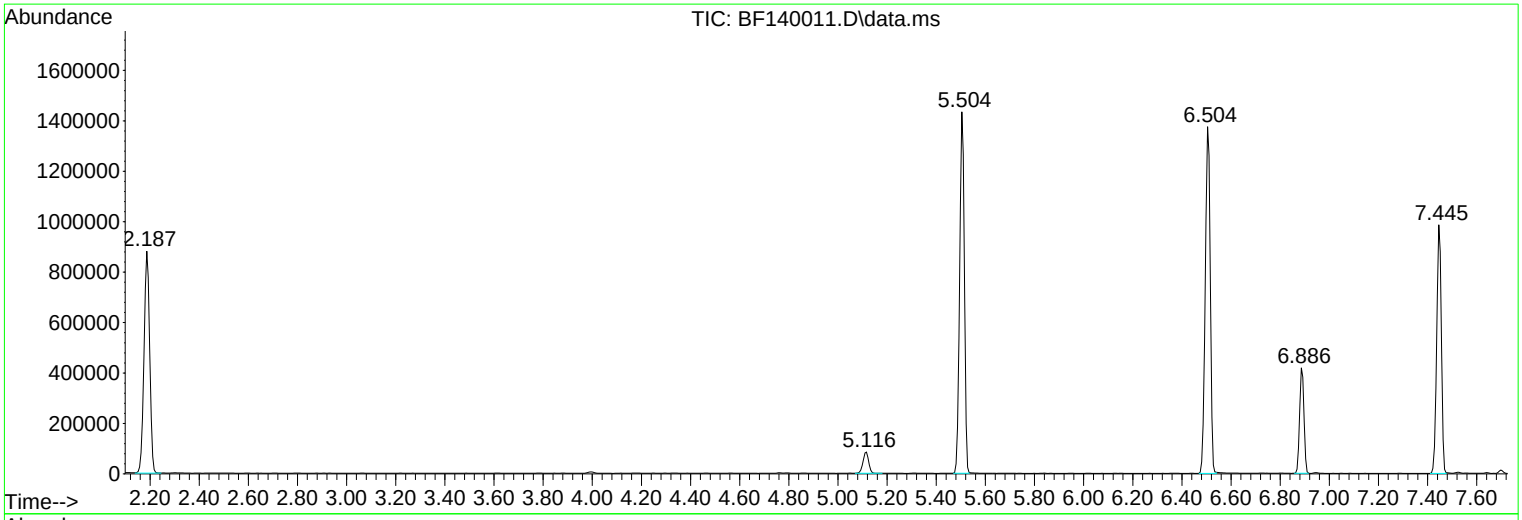
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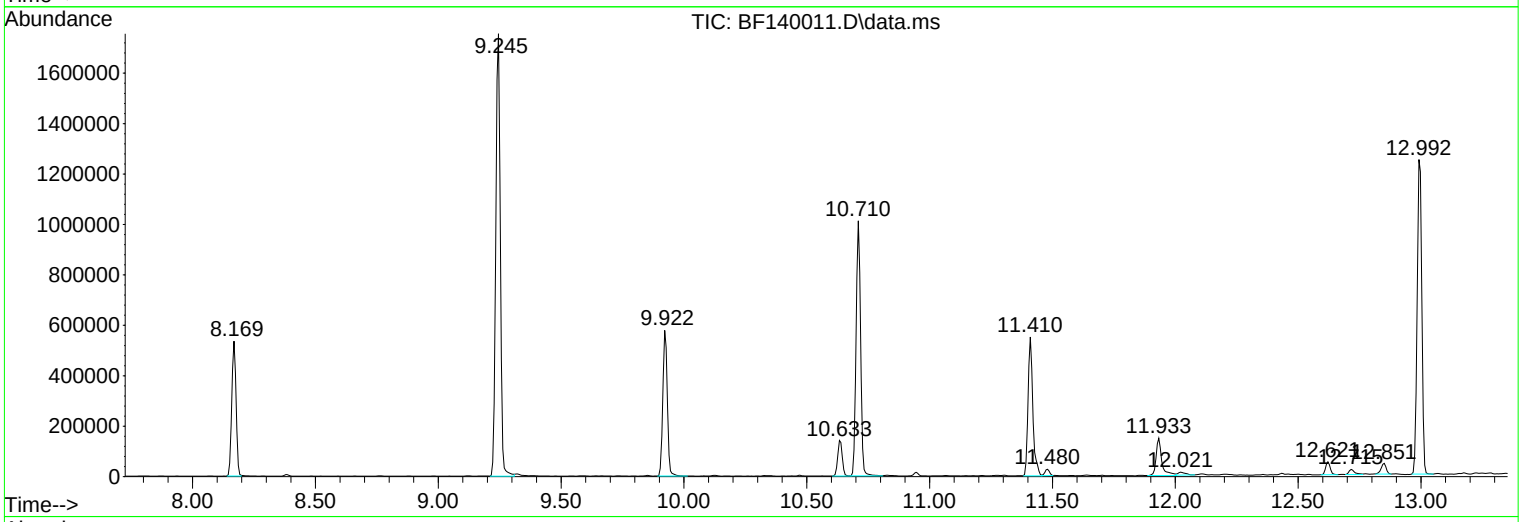
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Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

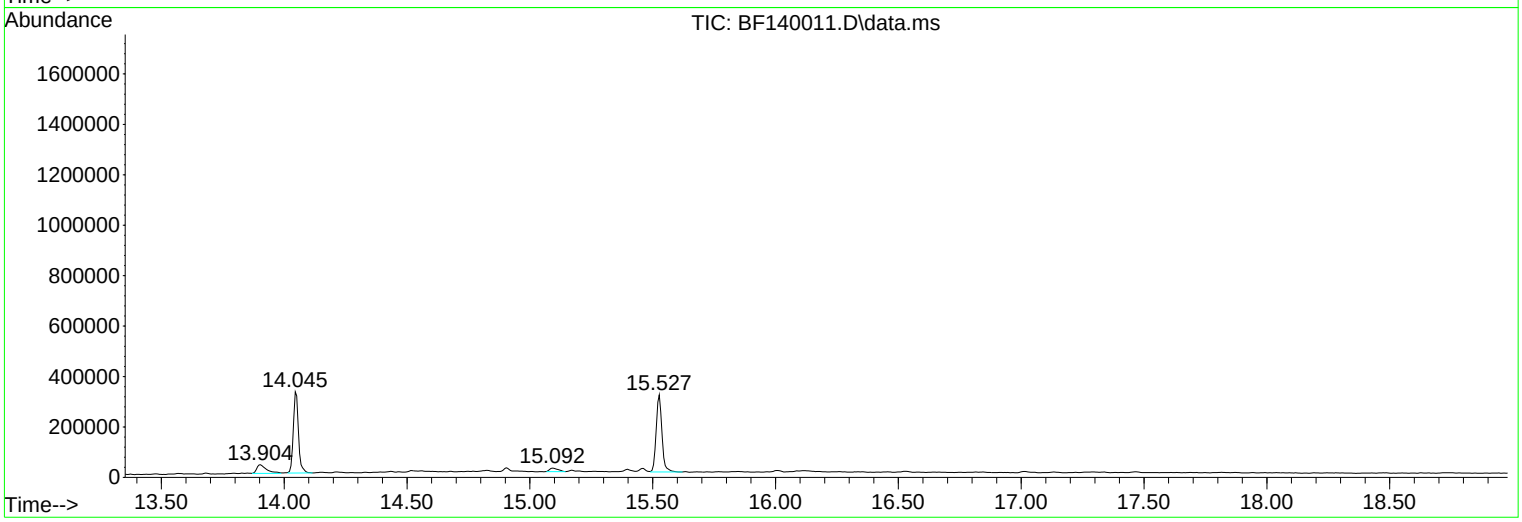
Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

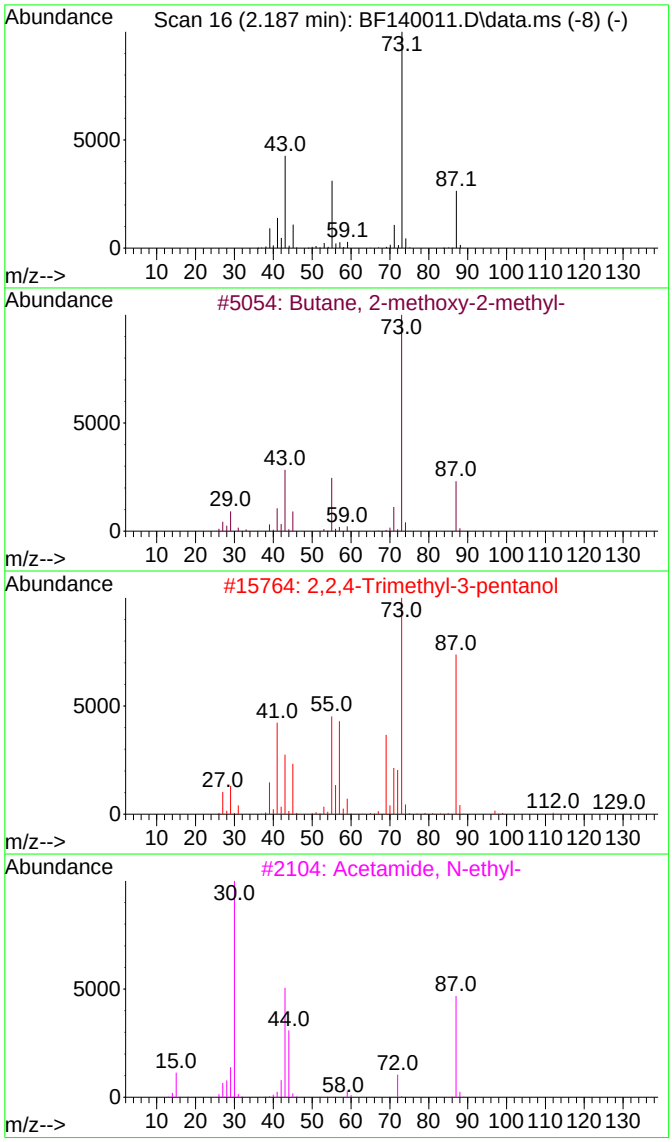
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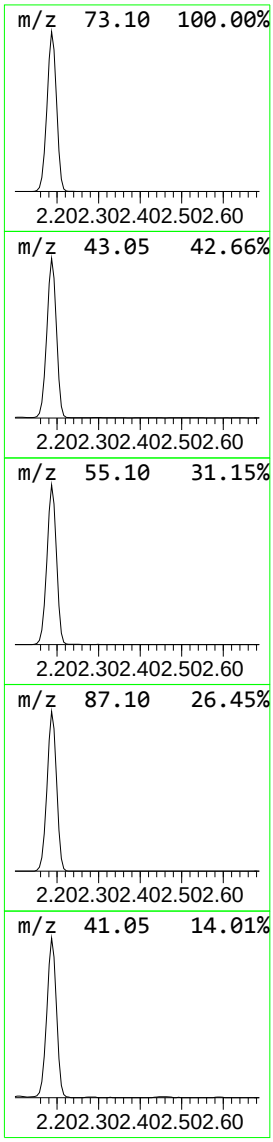
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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.187	54.53 ng	1399070	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

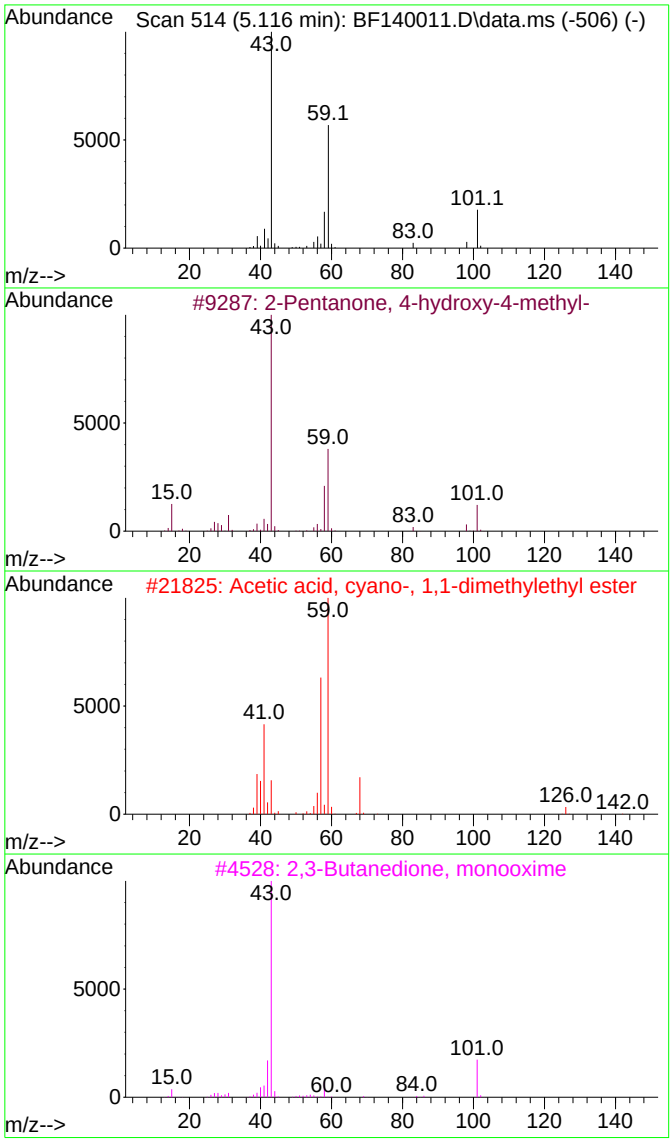
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

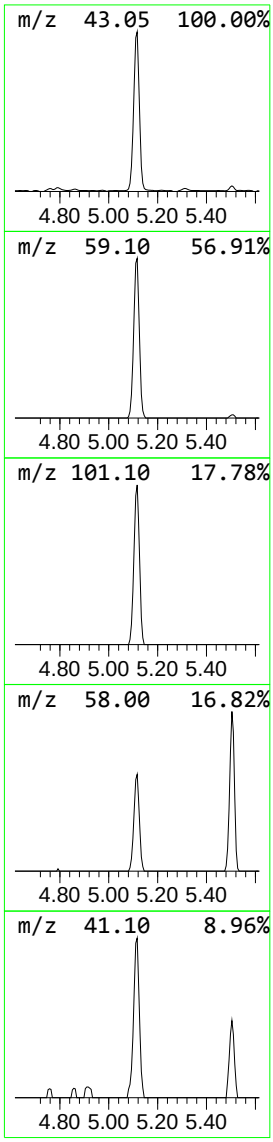
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	5.26 ng	135040	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

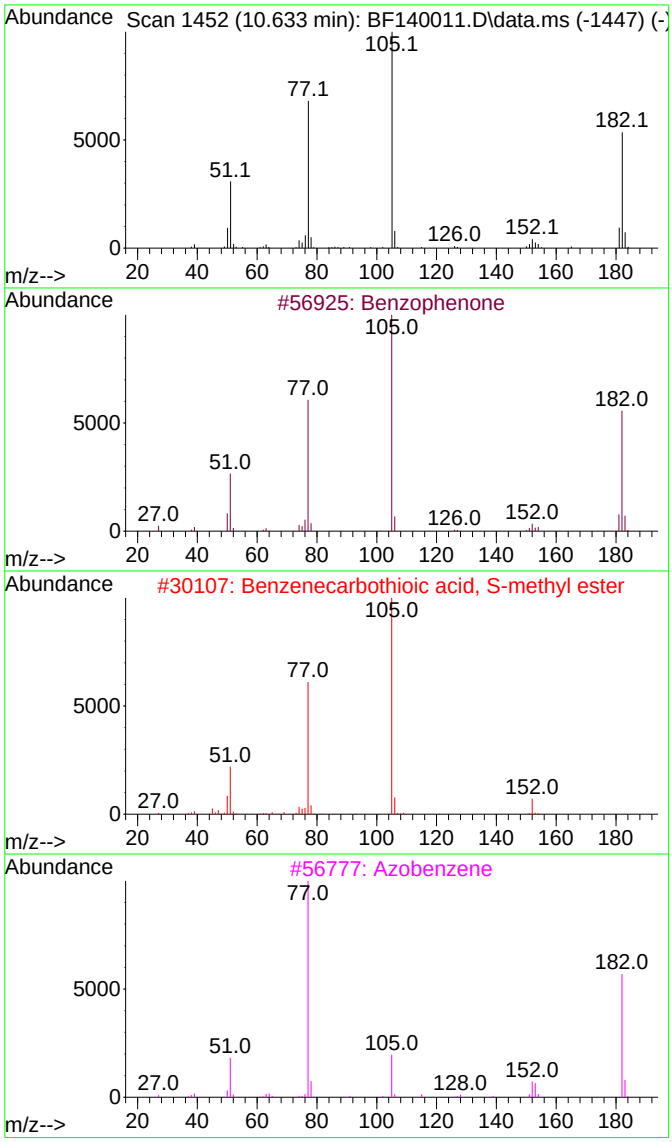
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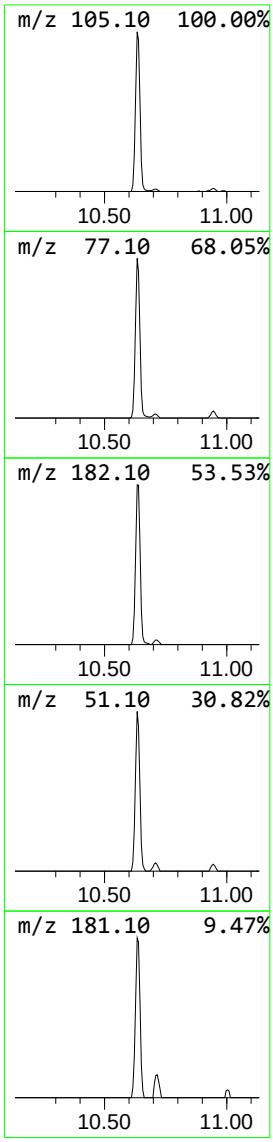
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Peak Number 3 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.633	4.93 ng	180615	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Azobenzene	182	C12H10N2	000103-33-3	52
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	49
5	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

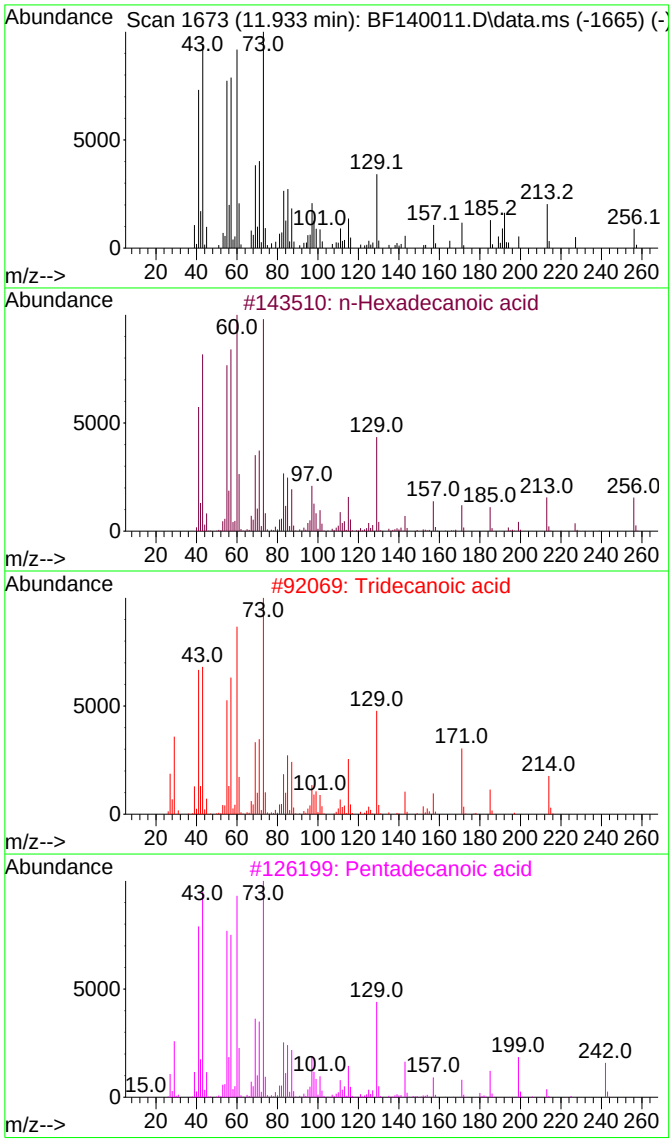
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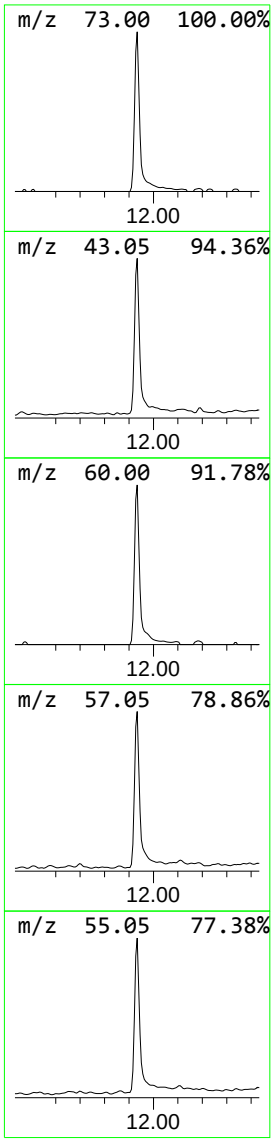
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Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	6.39 ng	238617	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	78
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

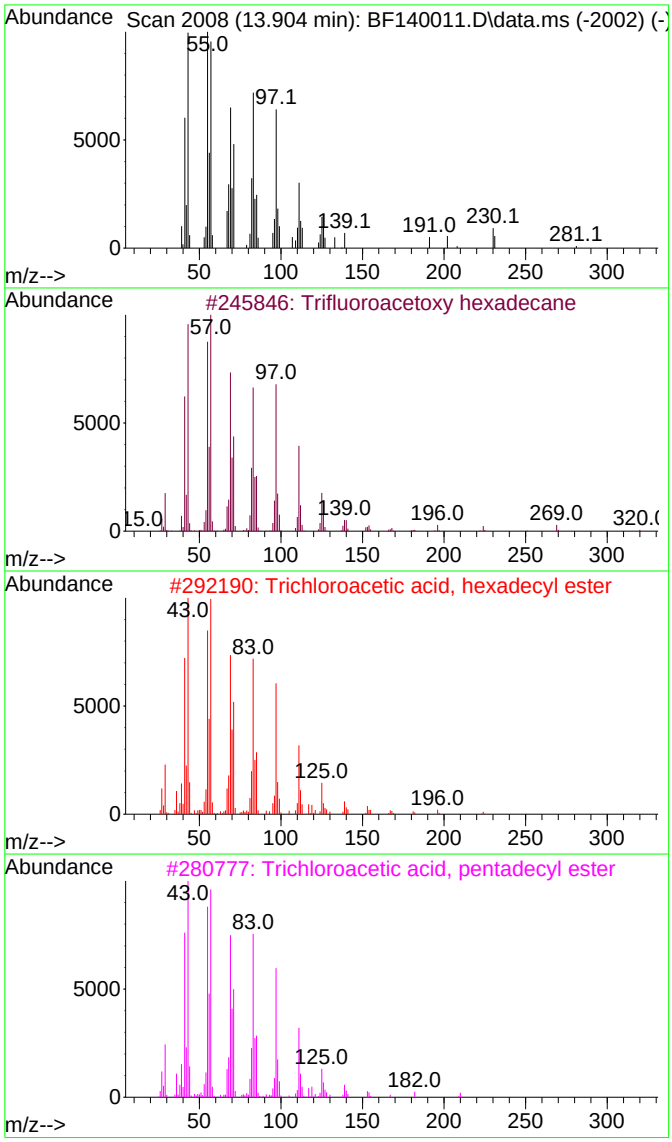
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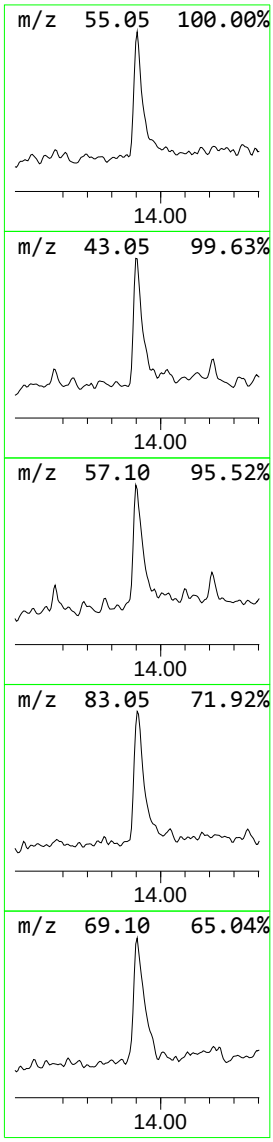
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Peak Number 6 Trifluoroacetoxy hexadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.05 ng	95182	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.187	54.5	ng	1399070	1	6.886	513151	20.0
2-Pentanone, 4-...	5.116	5.3	ng	135040	1	6.886	513151	20.0
Benzophenone	10.633	4.9	ng	180615	3	9.922	732588	20.0
n-Hexadecanoic ...	11.933	6.4	ng	238617	4	11.410	746590	20.0
Trifluoroacetox...	13.904	4.0	ng	95182	5	14.045	469611	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Time: Oct 28 01:09:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

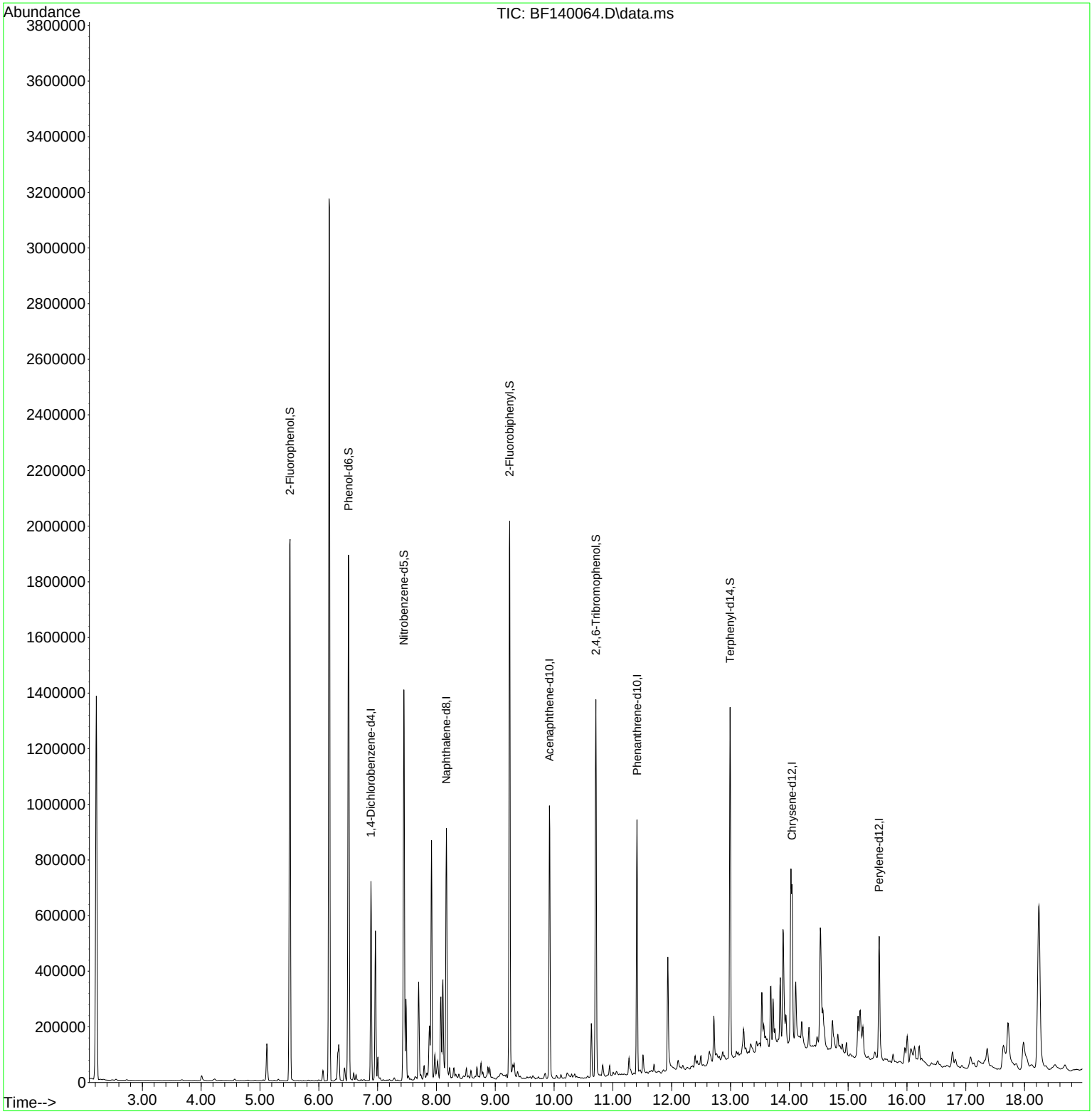
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	140732	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	538776	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	296372	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	470615	20.000	ng	0.00
76) Chrysene-d12	14.045	240	239328	20.000	ng	0.00
86) Perylene-d12	15.527	264	267329	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	755062	83.992	ng	0.01
7) Phenol-d6	6.504	99	952058	81.770	ng	0.00
23) Nitrobenzene-d5	7.445	82	653400	67.215	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	230229	83.050	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	934206	52.095	ng	0.00
79) Terphenyl-d14	12.992	244	602171	40.999	ng	0.00
Target Compounds						Qvalue

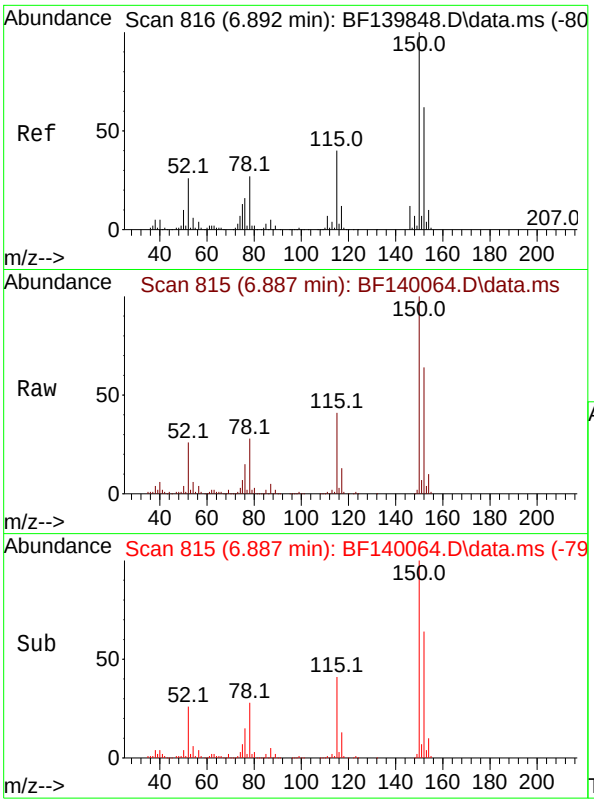
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Time: Oct 28 01:09:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



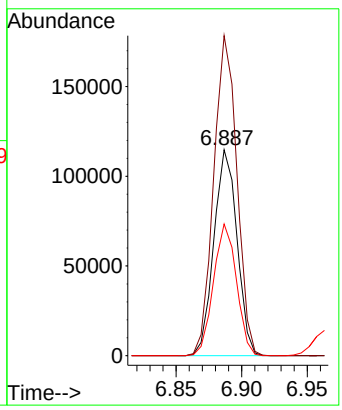


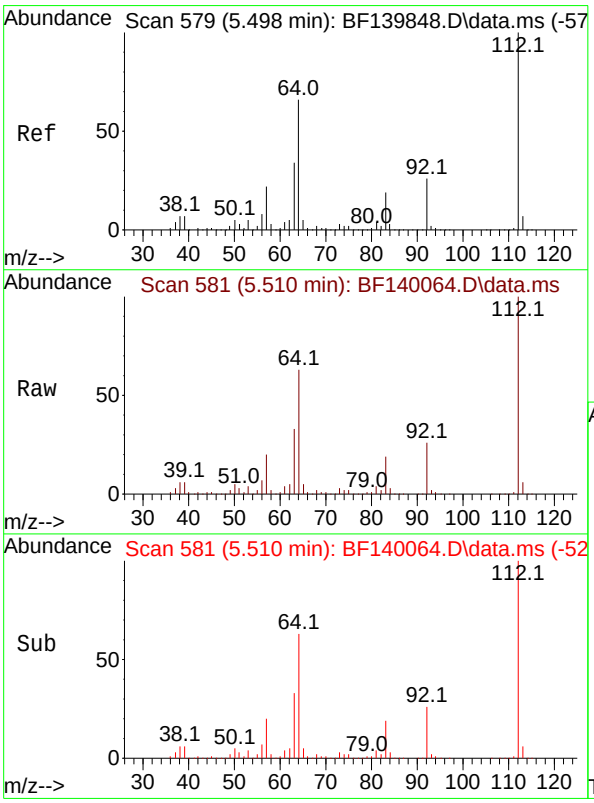
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:152 Resp: 140732

Ion	Ratio	Lower	Upper
152	100		
150	155.4	130.2	195.2
115	63.9	51.4	77.2

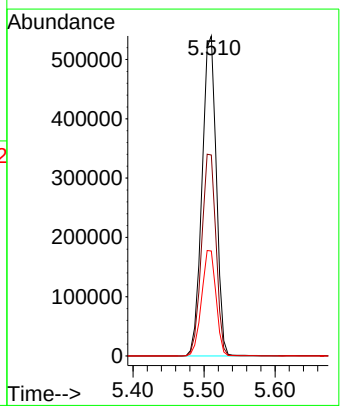


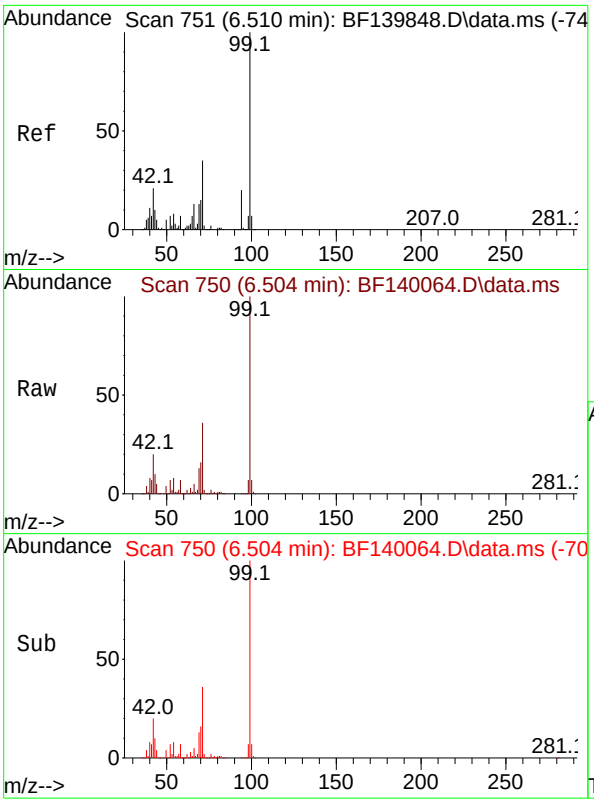


#5
2-Fluorophenol
Concen: 83.992 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:112 Resp: 755062

Ion	Ratio	Lower	Upper
112	100		
64	62.8	53.0	79.6
63	32.8	27.0	40.4



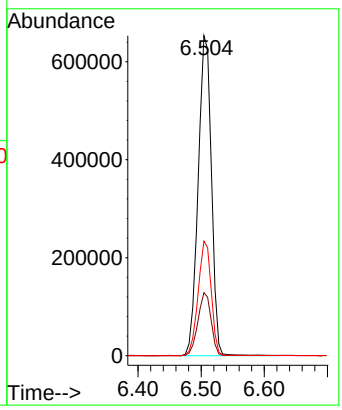


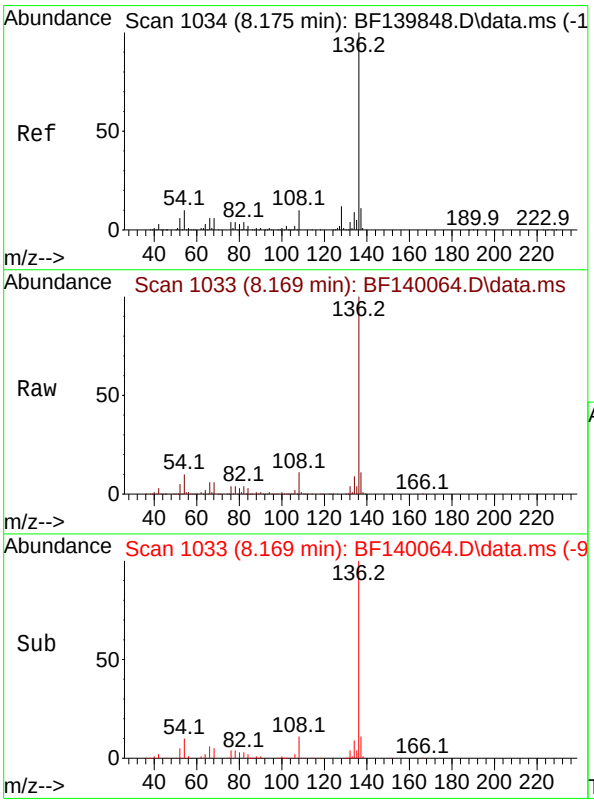
#7
Phenol-d6
Concen: 81.770 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion: 99 Resp: 952058

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.7	25.1
71	35.8	27.7	41.5

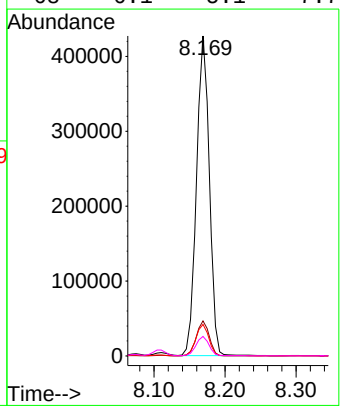


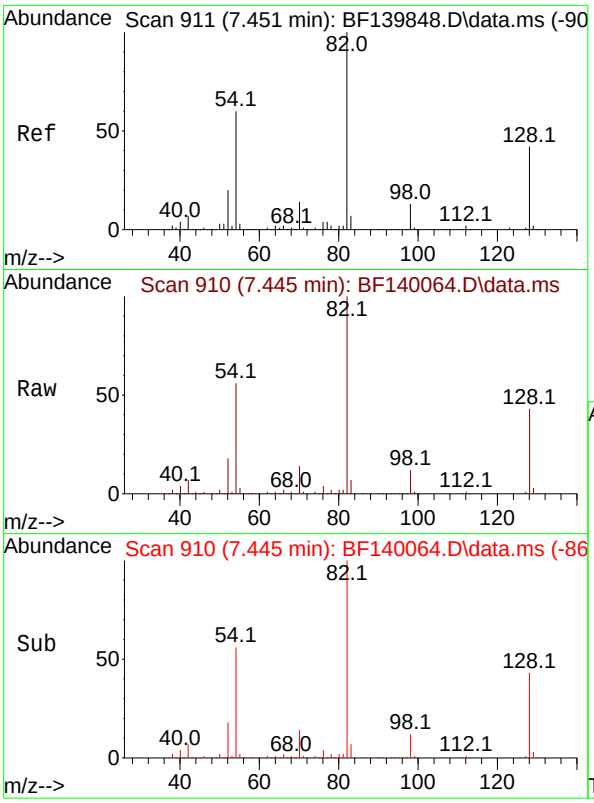


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:136 Resp: 538776

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.9	8.4	12.6
68	6.1	5.1	7.7



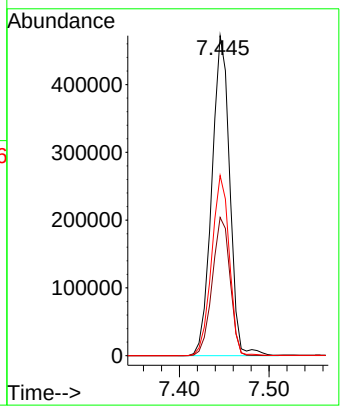


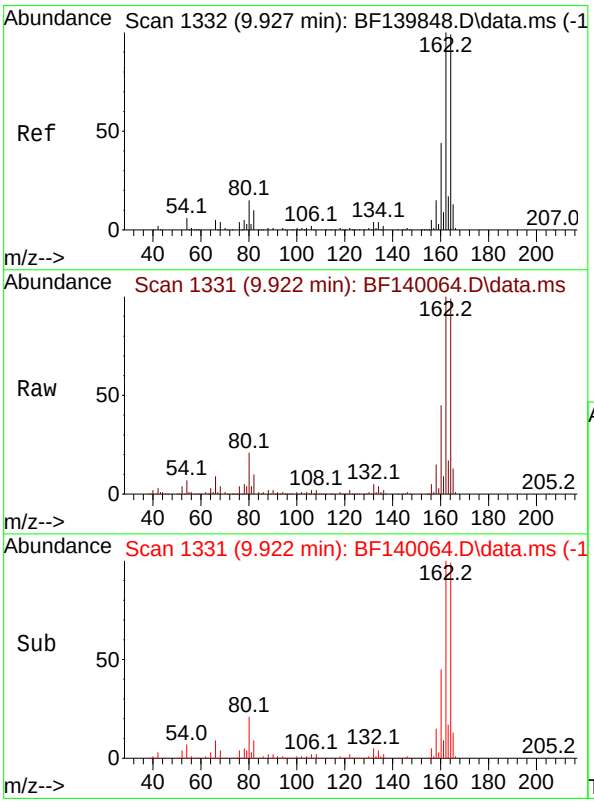
#23
Nitrobenzene-d5
Concen: 67.215 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion: 82 Resp: 653400

Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.4	50.0
54	56.3	47.8	71.8

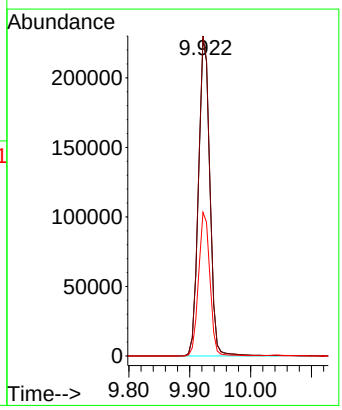


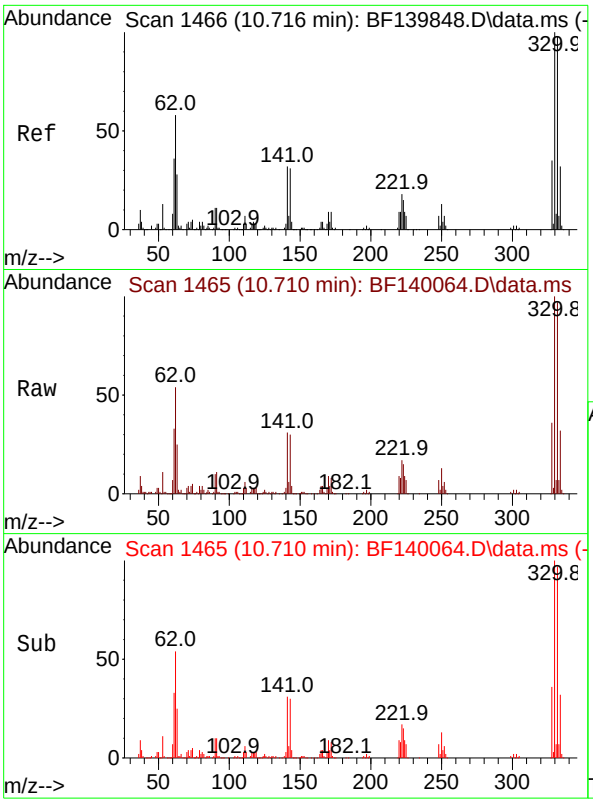


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:164 Resp: 296372

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	45.2	35.4	53.0



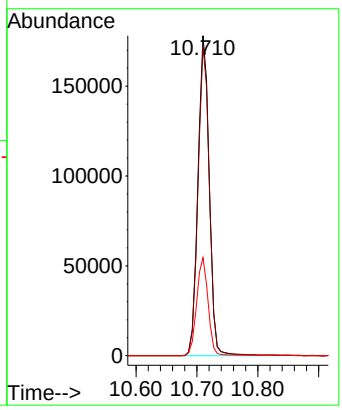


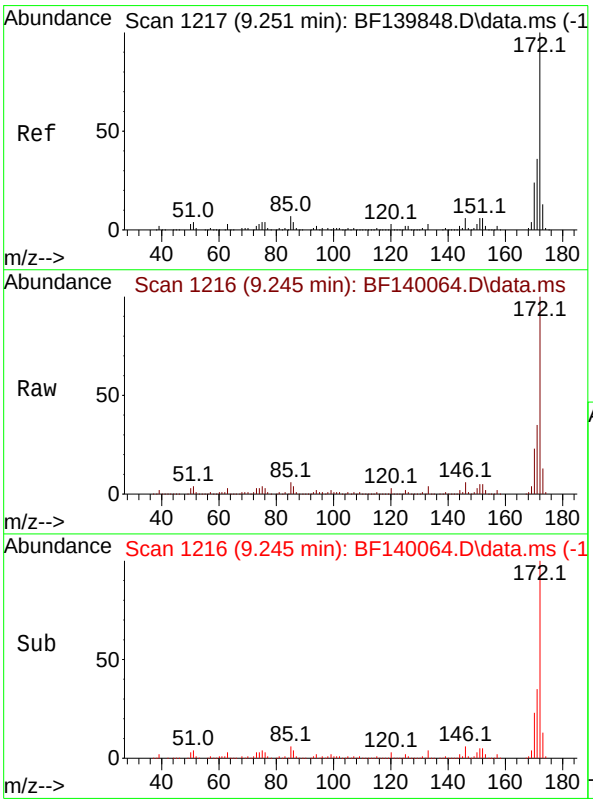
#42
2,4,6-Tribromophenol
Concen: 83.050 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:330 Resp: 230229

Ion	Ratio	Lower	Upper
330	100		
332	97.2	78.1	117.1
141	31.1	26.6	39.8

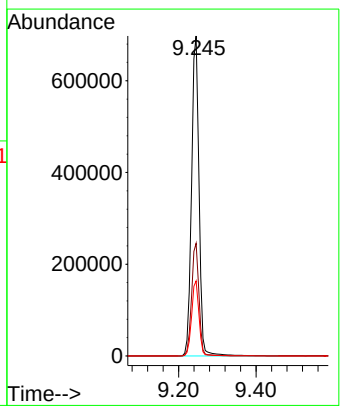


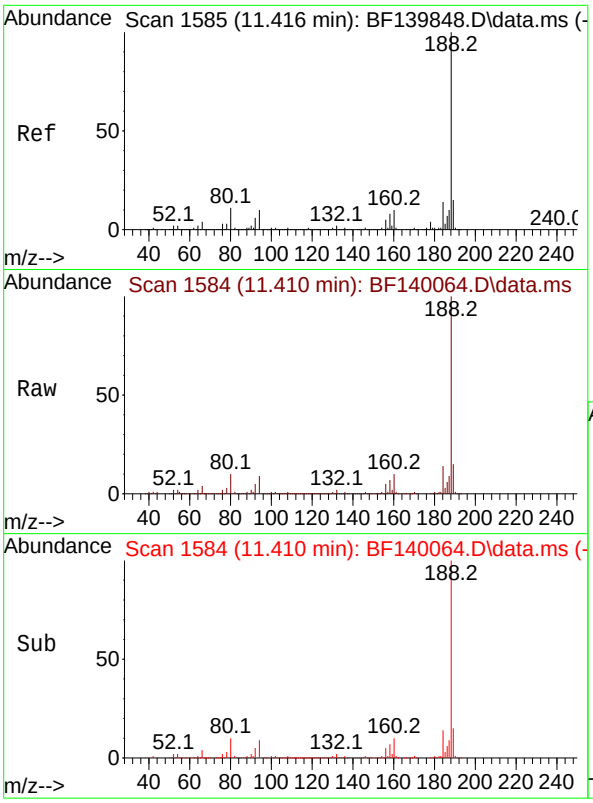


#45
2-Fluorobiphenyl
Concen: 52.095 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:172 Resp: 934206

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	23.5	19.1	28.7



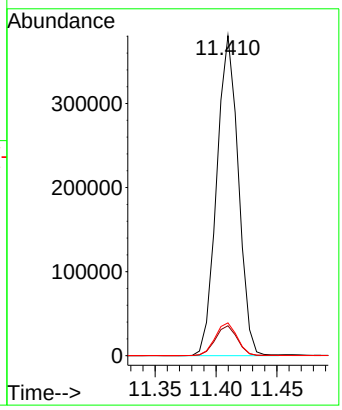


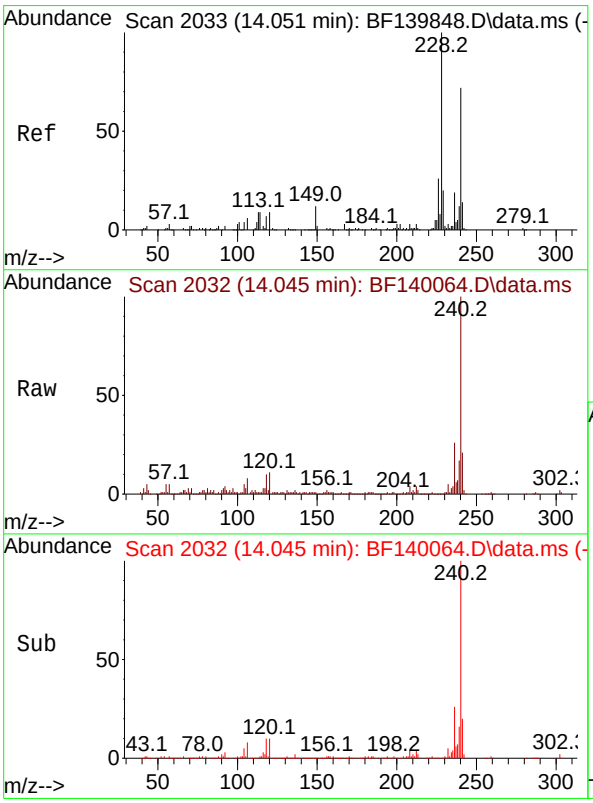
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:188 Resp: 470615

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.9	11.9
80	10.3	9.0	13.4

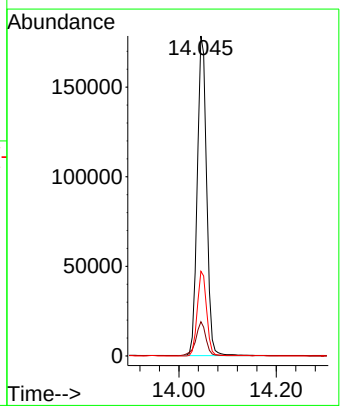


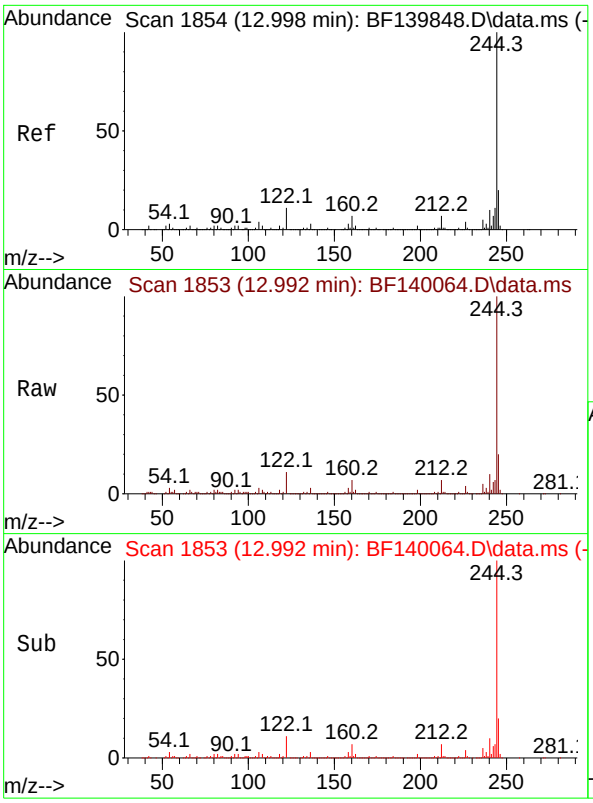


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:240 Resp: 239328

Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.4	14.2
236	26.4	20.9	31.3



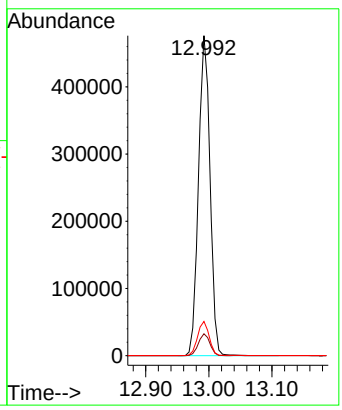


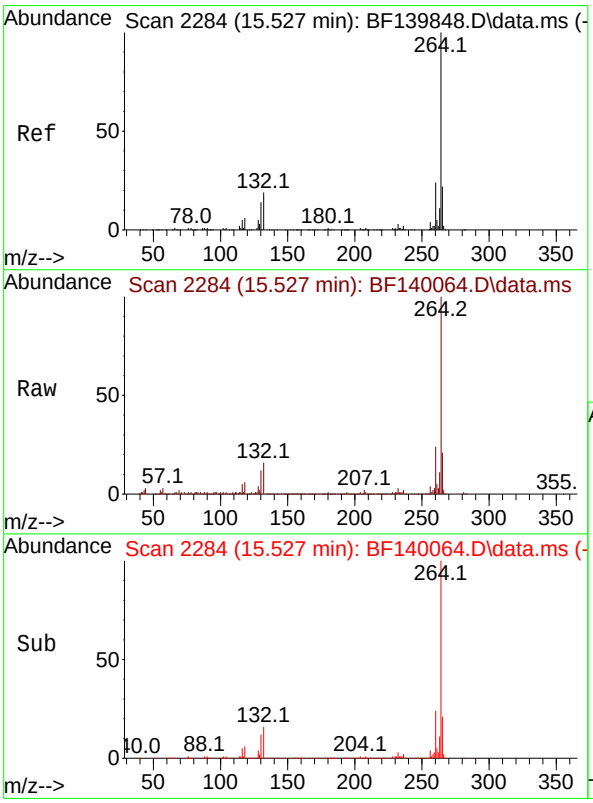
#79
Terphenyl-d14
Concen: 40.999 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:244 Resp: 602171

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.7	8.6	13.0

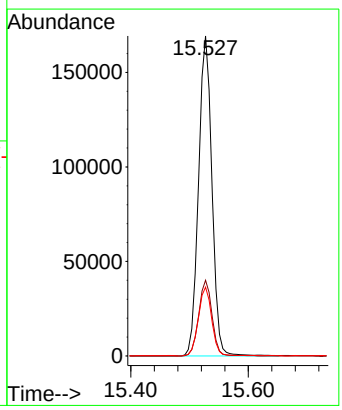




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:264 Resp: 267329

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.5	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140064.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.216	12	21	28	rVB	1379832	2208512	51.40%	5.450%
2	5.116	506	514	522	rVB	132492	203577	4.74%	0.502%
3	5.510	574	581	586	rBV	1946641	2748899	63.98%	6.783%
4	6.069	671	676	681	rVB	37611	47318	1.10%	0.117%
5	6.175	688	694	700	rVB	3171045	4296457	100.00%	10.602%
6	6.340	715	722	727	rVB2	127377	260291	6.06%	0.642%
7	6.440	734	739	744	rBV2	46076	69578	1.62%	0.172%
8	6.504	744	750	756	rBV	1889536	2746184	63.92%	6.776%
9	6.887	810	815	820	rBV	716588	882895	20.55%	2.179%
10	6.963	820	828	832	rBV	535905	659118	15.34%	1.626%
11	7.004	832	835	839	rVB	77211	88612	2.06%	0.219%
12	7.445	900	910	914	rBV	1406315	1967337	45.79%	4.854%
13	7.481	914	916	920	rVB	285346	316770	7.37%	0.782%
14	7.698	948	953	957	rBV	346966	435586	10.14%	1.075%
15	7.792	964	969	973	rBV	48578	72313	1.68%	0.178%
16	7.881	979	984	986	rBV2	177606	260187	6.06%	0.642%
17	7.916	986	990	995	rVB	851093	1073712	24.99%	2.649%
18	7.975	995	1000	1003	rBV	82231	111187	2.59%	0.274%
19	8.022	1003	1008	1012	rVB2	59935	95852	2.23%	0.237%
20	8.075	1012	1017	1020	rBV	290560	406599	9.46%	1.003%
21	8.110	1020	1023	1028	rVV2	345928	472284	10.99%	1.165%
22	8.169	1028	1033	1039	rVV	889890	1163647	27.08%	2.871%
23	8.222	1039	1042	1047	rVB2	36222	48177	1.12%	0.119%
24	8.298	1050	1055	1058	rBV	34323	44146	1.03%	0.109%
25	8.757	1129	1133	1136	rBV	51266	64310	1.50%	0.159%
26	8.875	1146	1153	1156	rBV2	37267	58009	1.35%	0.143%
27	9.092	1177	1190	1192	rBV9	20757	61155	1.42%	0.151%
28	9.245	1209	1216	1222	rBV	2000921	2651043	61.70%	6.541%
29	9.298	1222	1225	1227	rVV	43373	63701	1.48%	0.157%
30	9.322	1227	1229	1235	rVB	48004	57118	1.33%	0.141%
31	9.922	1324	1331	1345	rVB	981150	1273032	29.63%	3.141%
32	10.222	1377	1382	1392	rBV	18627	52231	1.22%	0.129%
33	10.633	1447	1452	1459	rBV	193504	247379	5.76%	0.610%
34	10.710	1459	1465	1475	rBV	1355466	1756791	40.89%	4.335%
35	10.828	1481	1485	1494	rVB	41628	68566	1.60%	0.169%
36	10.945	1501	1505	1509	rVB	35949	43358	1.01%	0.107%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.275	1557	1561	1571	rVB	59351	105622	2.46%	0.261%
38	11.410	1579	1584	1589	rBV	914179	1142739	26.60%	2.820%
39	11.510	1597	1601	1610	rBV	65345	95280	2.22%	0.235%
40	11.933	1668	1673	1682	rBV	408259	599654	13.96%	1.480%
41	12.110	1699	1703	1708	rBV2	27338	46701	1.09%	0.115%
42	12.398	1748	1752	1755	rBV2	40328	60135	1.40%	0.148%
43	12.639	1790	1793	1801	rVB2	35219	72477	1.69%	0.179%
44	12.716	1802	1806	1812	rBV	163183	247377	5.76%	0.610%
45	12.992	1847	1853	1863	rBV	1262285	1648330	38.36%	4.067%
46	13.221	1886	1892	1896	rBV	84859	145015	3.38%	0.358%
47	13.445	1926	1930	1933	rBV2	33815	56918	1.32%	0.140%
48	13.533	1941	1945	1948	rBV	192177	259209	6.03%	0.640%
49	13.686	1966	1971	1974	rBV	217147	294193	6.85%	0.726%
50	13.721	1974	1977	1981	rBV	147633	187581	4.37%	0.463%
51	13.845	1994	1998	2002	rBV	220153	282541	6.58%	0.697%
52	13.892	2002	2006	2012	rBV	384509	641279	14.93%	1.582%
53	14.027	2024	2029	2031	rBV	614456	953505	22.19%	2.353%
54	14.110	2039	2043	2052	rBV	200135	297625	6.93%	0.734%
55	14.210	2057	2060	2073	rVB2	94960	194987	4.54%	0.481%
56	14.333	2077	2081	2085	rBV	68043	84575	1.97%	0.209%
57	14.527	2109	2114	2120	rBV	406648	807285	18.79%	1.992%
58	14.733	2145	2149	2159	rBV	98784	191722	4.46%	0.473%
59	14.821	2161	2164	2168	rVV	44476	56908	1.32%	0.140%
60	14.968	2186	2189	2197	rVB2	47934	72686	1.69%	0.179%
61	15.168	2218	2223	2226	rBV	136457	223350	5.20%	0.551%
62	15.204	2226	2229	2234	rVB	105977	185225	4.31%	0.457%
63	15.527	2278	2284	2296	rVB	446241	762355	17.74%	1.881%
64	15.962	2353	2358	2361	rBV2	55242	101832	2.37%	0.251%
65	16.004	2361	2365	2370	rVB	93264	159013	3.70%	0.392%
66	16.068	2371	2376	2382	rBV2	45864	122762	2.86%	0.303%
67	16.127	2383	2386	2391	rVB	44651	72373	1.68%	0.179%
68	16.210	2396	2400	2404	rVB2	49085	74339	1.73%	0.183%
69	16.774	2490	2496	2501	rBV2	50787	109507	2.55%	0.270%
70	17.080	2543	2548	2554	rBV4	29779	65235	1.52%	0.161%
71	17.362	2592	2596	2605	rVB2	61999	133869	3.12%	0.330%
72	17.639	2636	2643	2650	rBV6	80507	269605	6.28%	0.665%
73	17.715	2651	2656	2675	rVB5	154622	466793	10.86%	1.152%
74	17.980	2693	2701	2718	rBV5	95330	395840	9.21%	0.977%
75	18.245	2735	2746	2763	rBV	580698	1764342	41.07%	4.354%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

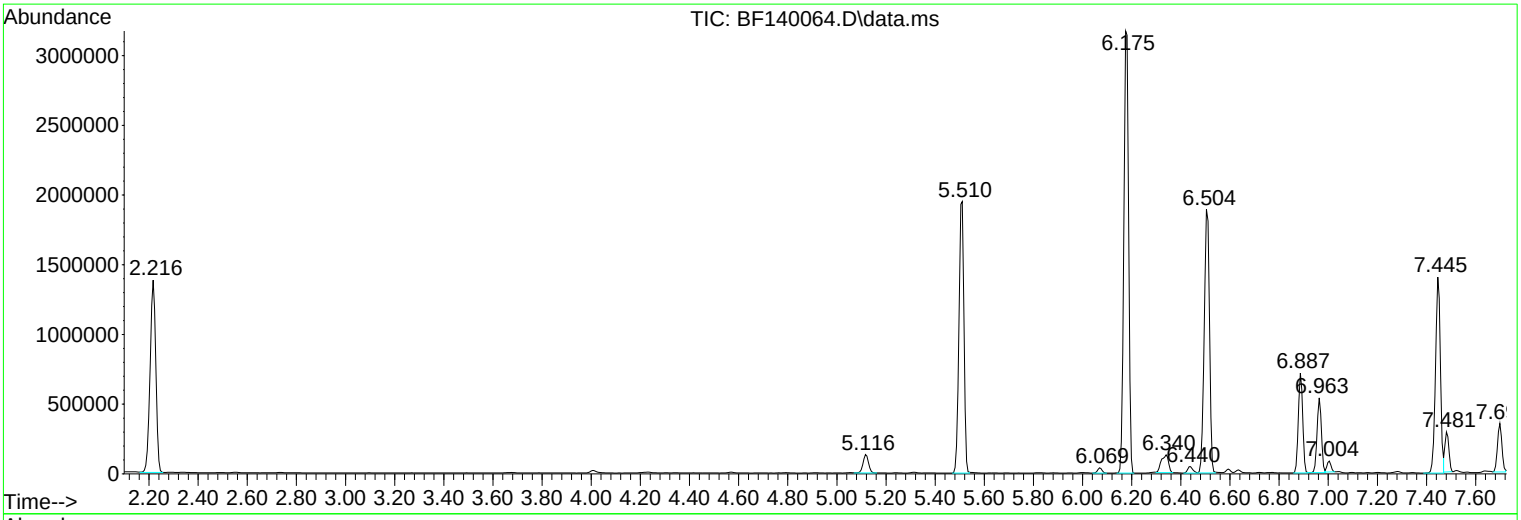
Sum of corrected areas: 40526715

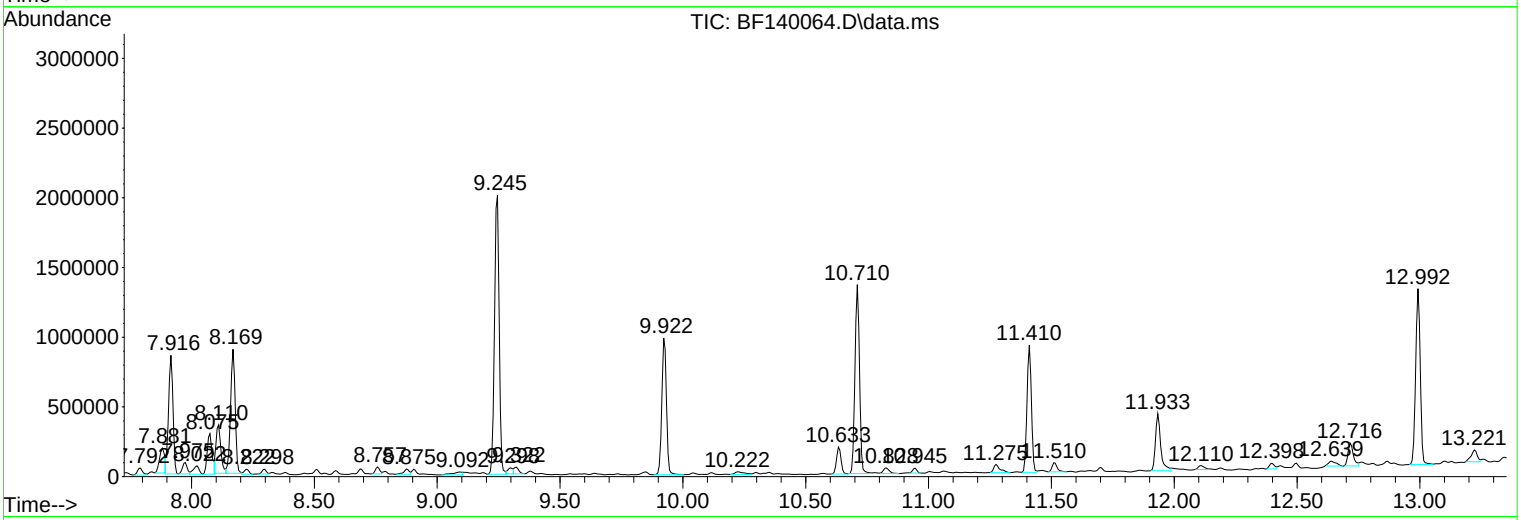
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

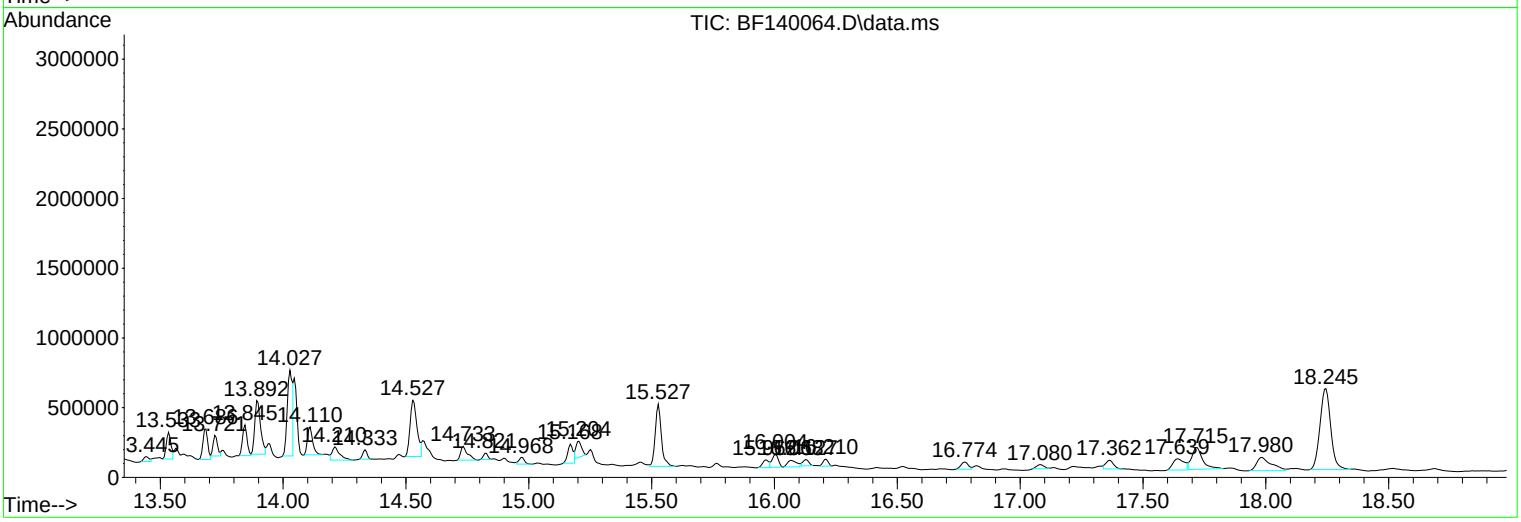
Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

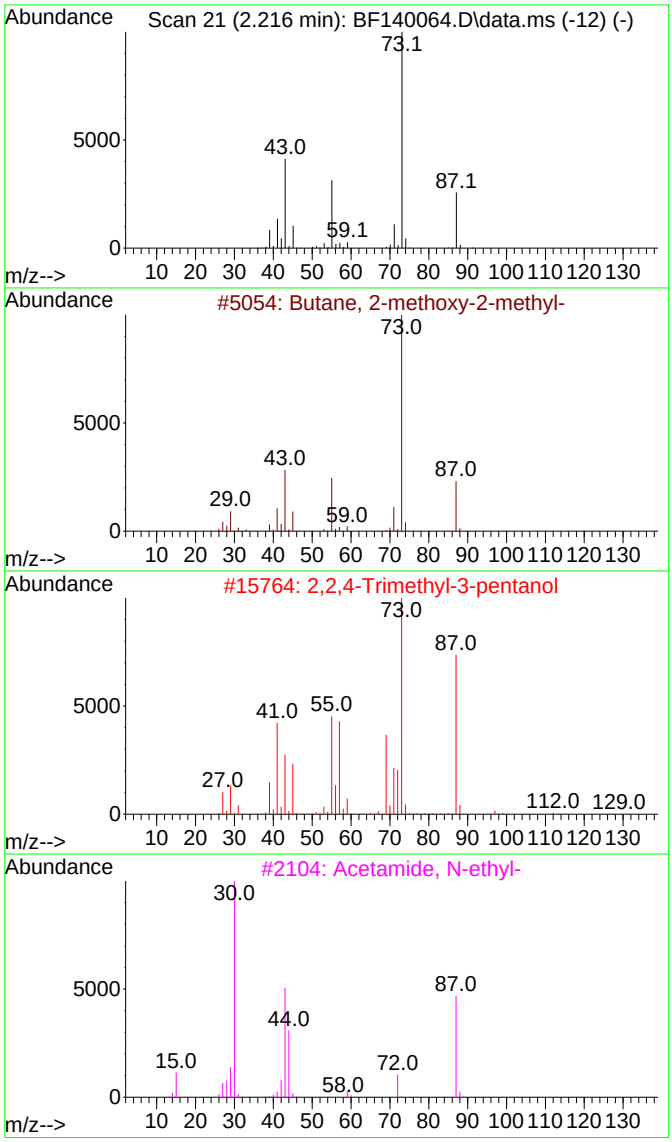
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TIC Integration Parameters: LSCINT.P

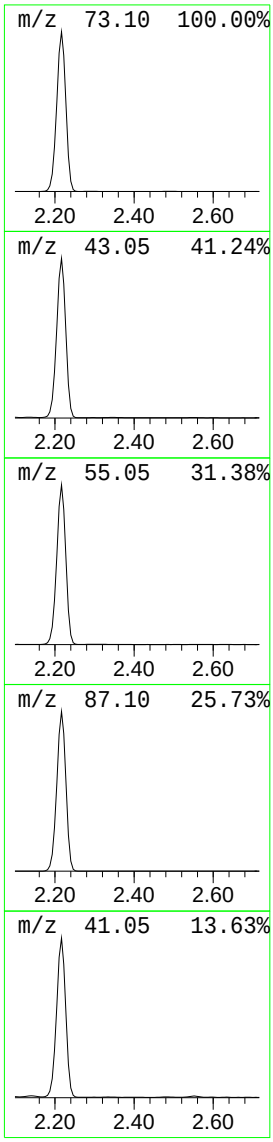
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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.216	50.03 ng	2208510	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
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Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :
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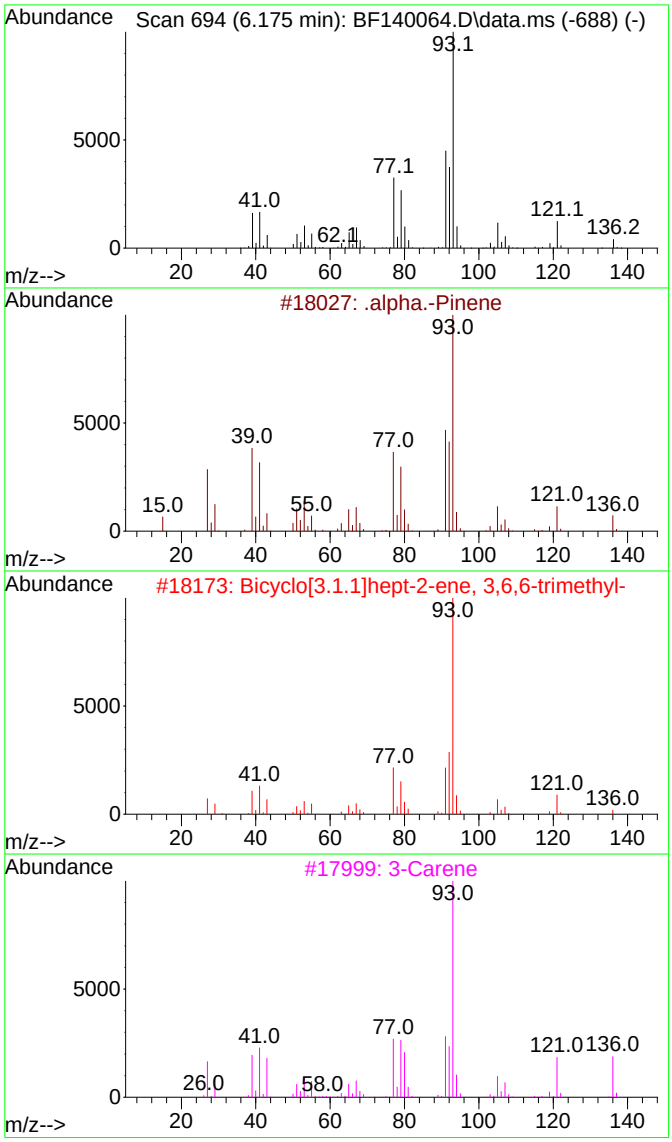
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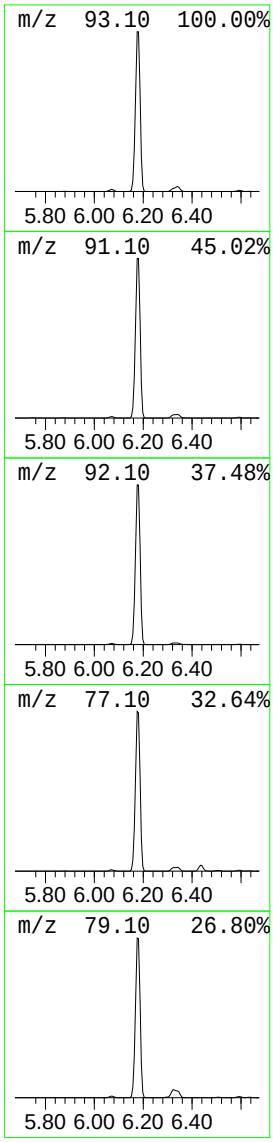
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Peak Number 2 .alpha.-Pinene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.175	97.33 ng	4296460	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	94
2	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91
3	3-Carene	136	C10H16	013466-78-9	91
4	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000508-32-7	91
5	(+)-3-Carene	136	C10H16	000498-15-7	91





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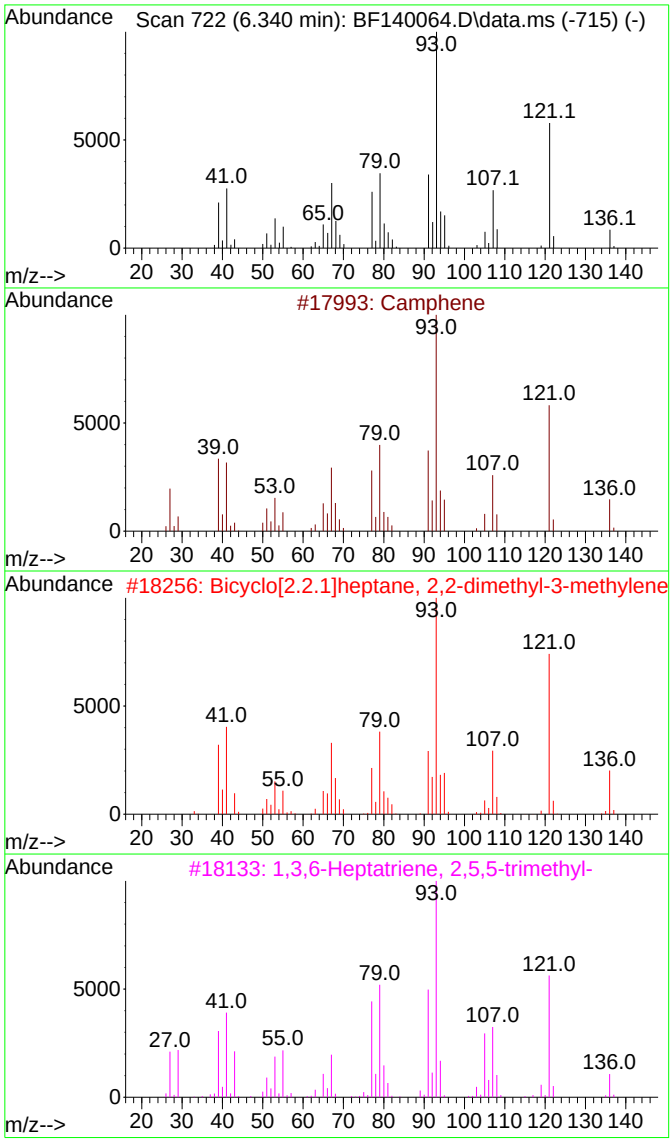
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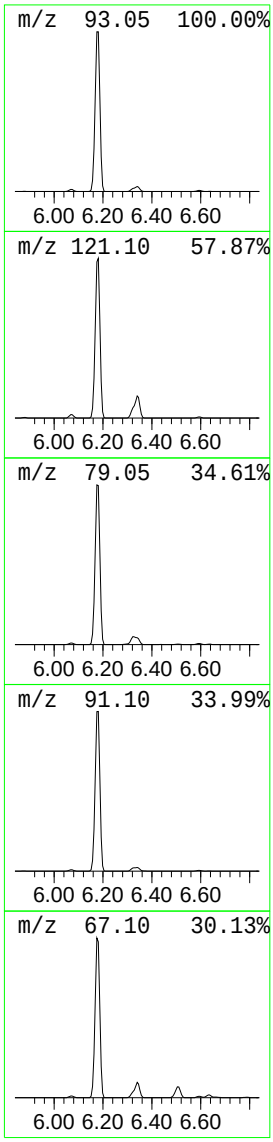
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Peak Number 3 Camphene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.340	5.90 ng	260291	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Camphene	136	C10H16	000079-92-5	95
2	Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-04-7	94
3	1,3,6-Heptatriene, 2,5,5-trimethyl-	136	C10H16	029548-02-5	90
4	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	80
5	(+)-4-Carene	136	C10H16	029050-33-7	74





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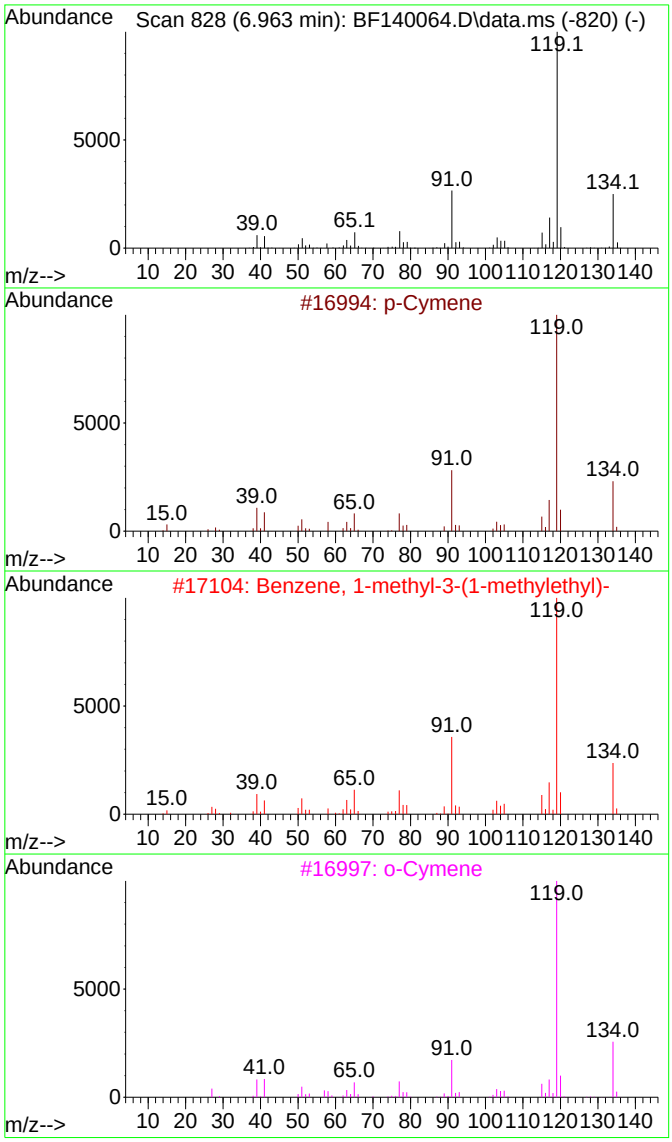
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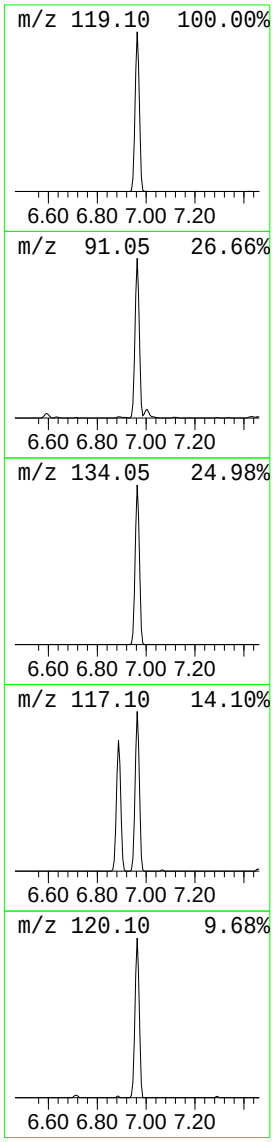
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Peak Number 4 p-Cymene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.963	14.93 ng	659118	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	97
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
3	o-Cymene	134	C10H14	000527-84-4	94
4	1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	94
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91





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Sample : P4471-02
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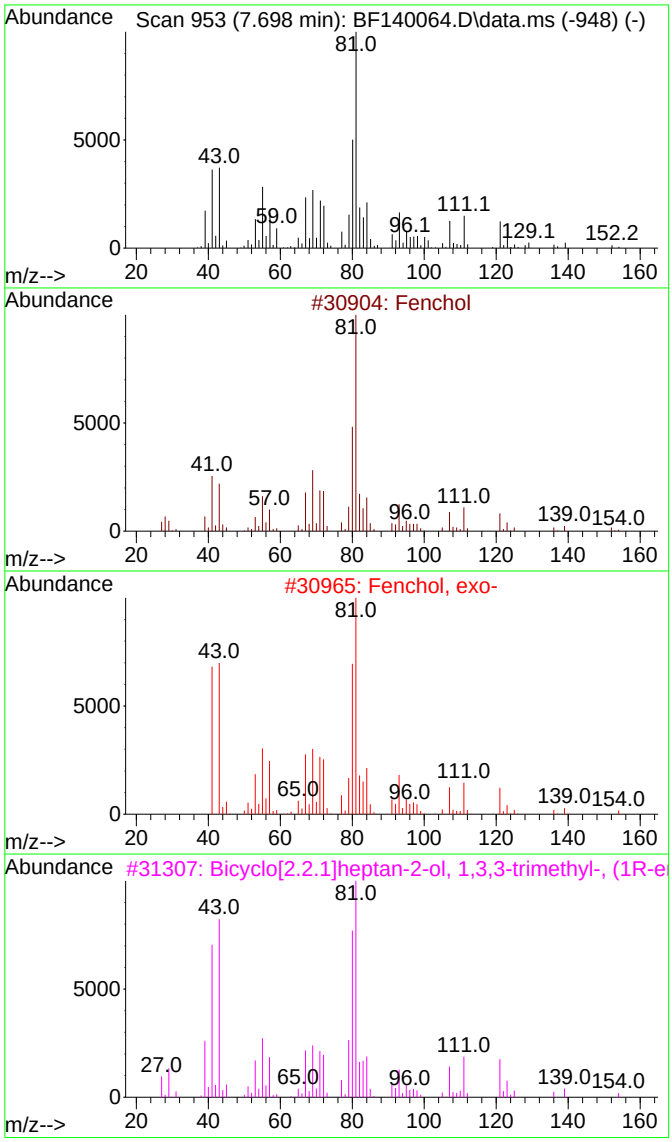
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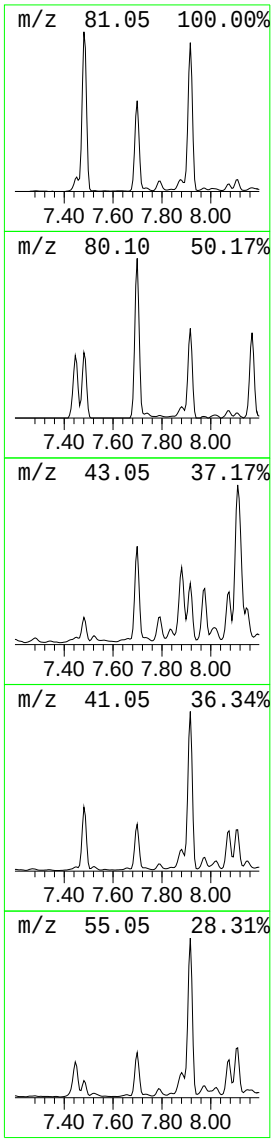
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Peak Number 5 Fenchol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	7.49 ng	435586	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fenchol	154	C10H18O	001632-73-1	96
2	Fenchol, exo-	154	C10H18O	022627-95-8	91
3	Bicyclo[2.2.1]heptan-2-ol, 1,3,3...	154	C10H18O	002217-02-9	38
4	Cyclohexane, 1,2-dichloro-	152	C6H10Cl2	001121-21-7	38
5	Cyclohexane, 1,2-dichloro-, trans-	152	C6H10Cl2	000822-86-6	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
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Sample : P4471-02
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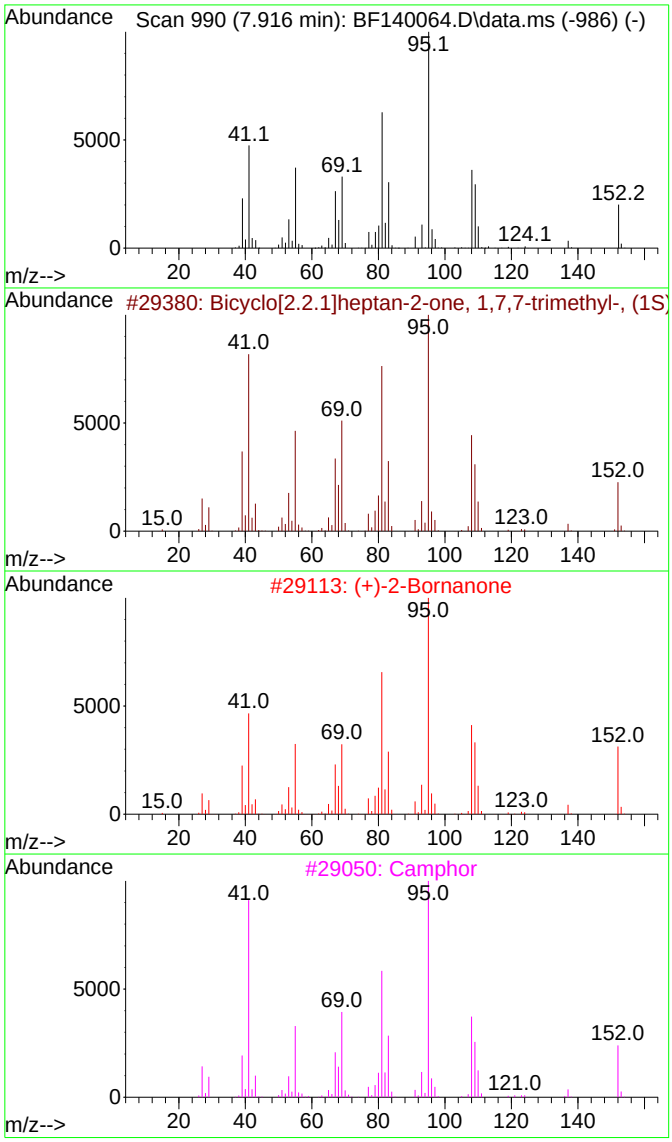
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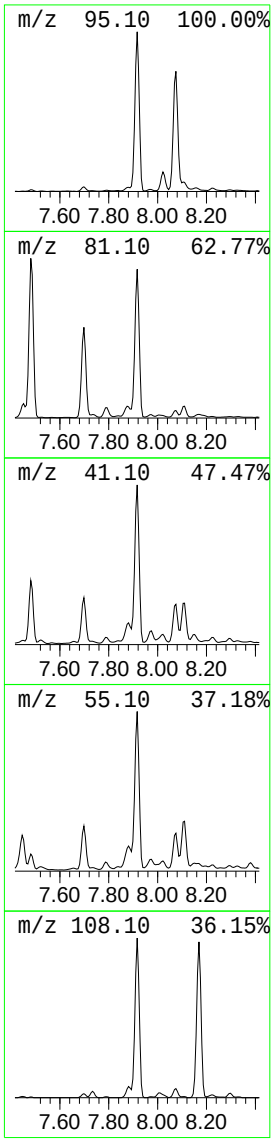
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Peak Number 6 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.916	18.45 ng	1073710	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	97
2	(+)-2-Bornanone	152	C10H16O	000464-49-3	97
3	Camphor	152	C10H16O	000076-22-2	97
4	5,7-Octadien-4-one, 2,6-dimethyl...	152	C10H16O	006752-80-3	58
5	1-Adamantanol	152	C10H16O	000768-95-6	43





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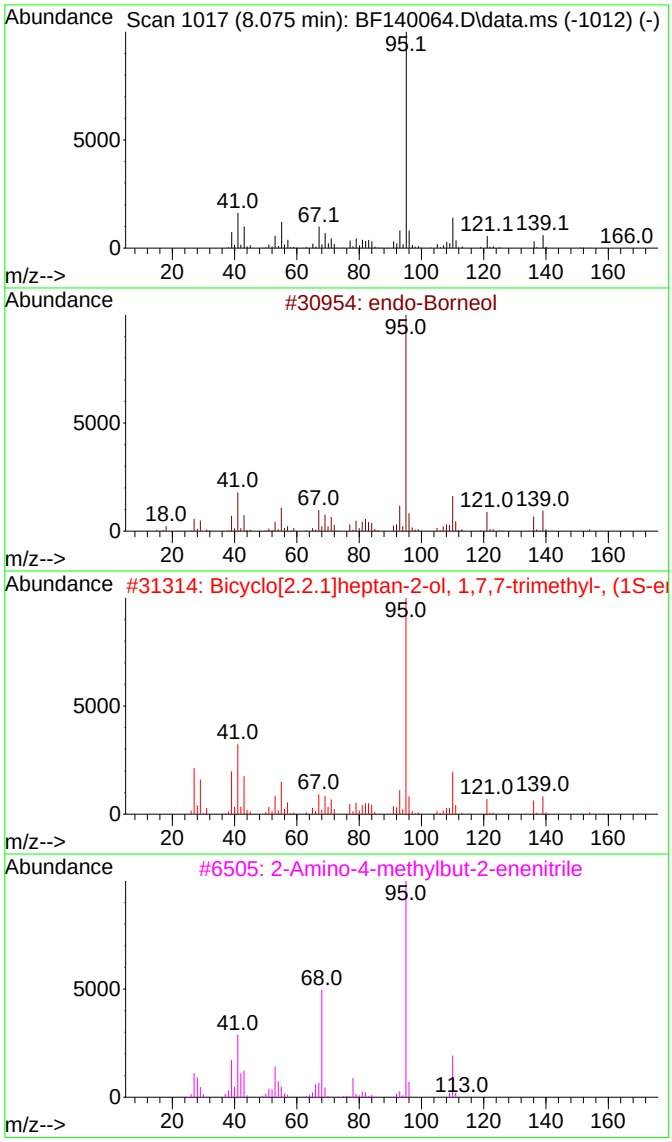
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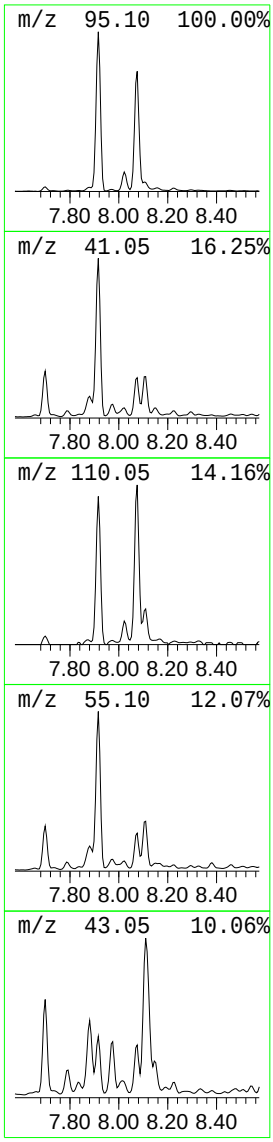
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Peak Number 7 endo-Borneol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.075	6.99 ng	406599	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	endo-Borneol	154	C10H18O	000507-70-0	91
2	Bicyclo[2.2.1]heptan-2-ol, 1,7,7...	154	C10H18O	000464-45-9	83
3	2-Amino-4-methylbut-2-enenitrile	110	C6H10N2	1000197-39-9	72
4	Bicyclo[2.2.1]heptane, 2-(1,1-di...	164	C12H20	069219-08-5	64
5	Furan, 2-ethyl-5-methyl-	110	C7H10O	001703-52-2	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
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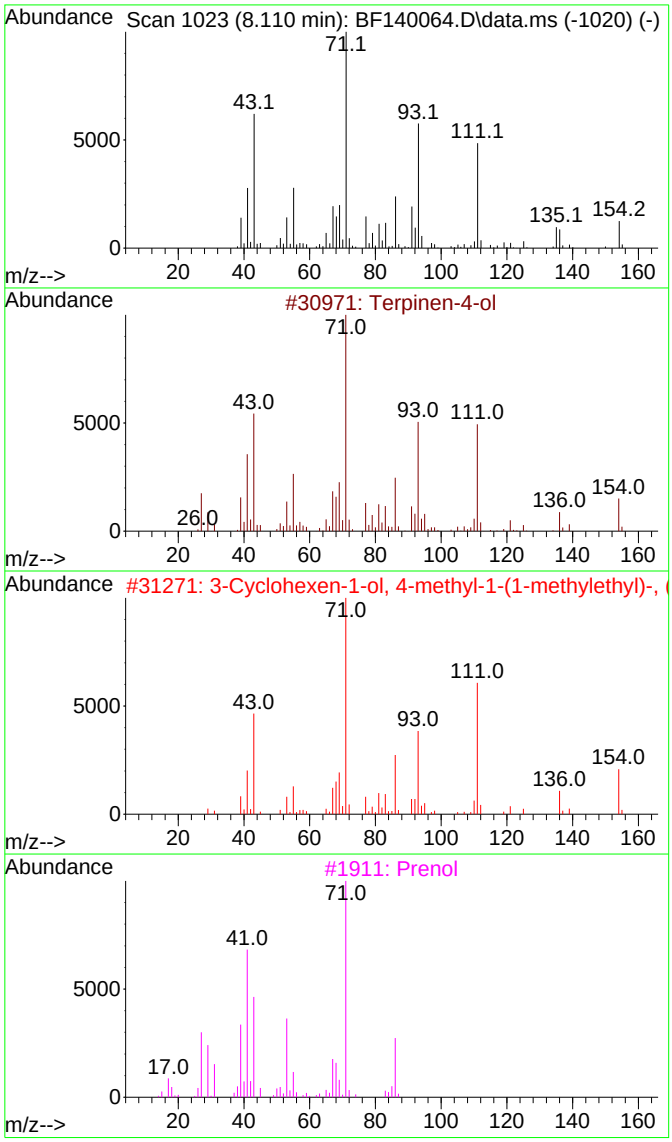
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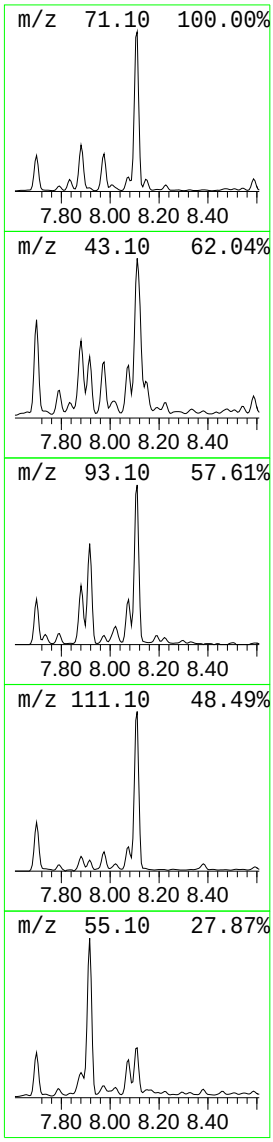
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Peak Number 8 Terpinen-4-ol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.110	8.12 ng	472284	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Terpinen-4-ol	154	C10H18O	000562-74-3	91
2	3-Cyclohexen-1-ol, 4-methyl-1-(1...	154	C10H18O	020126-76-5	81
3	Prenol	86	C5H10O	000556-82-1	43
4	Bicyclo[3.1.1]heptan-endo-6-ol, ...	190	C7H11BrO	1000142-77-8	35
5	2-Butene, 1-methoxy-, (E)-	86	C5H10O	010034-14-7	30





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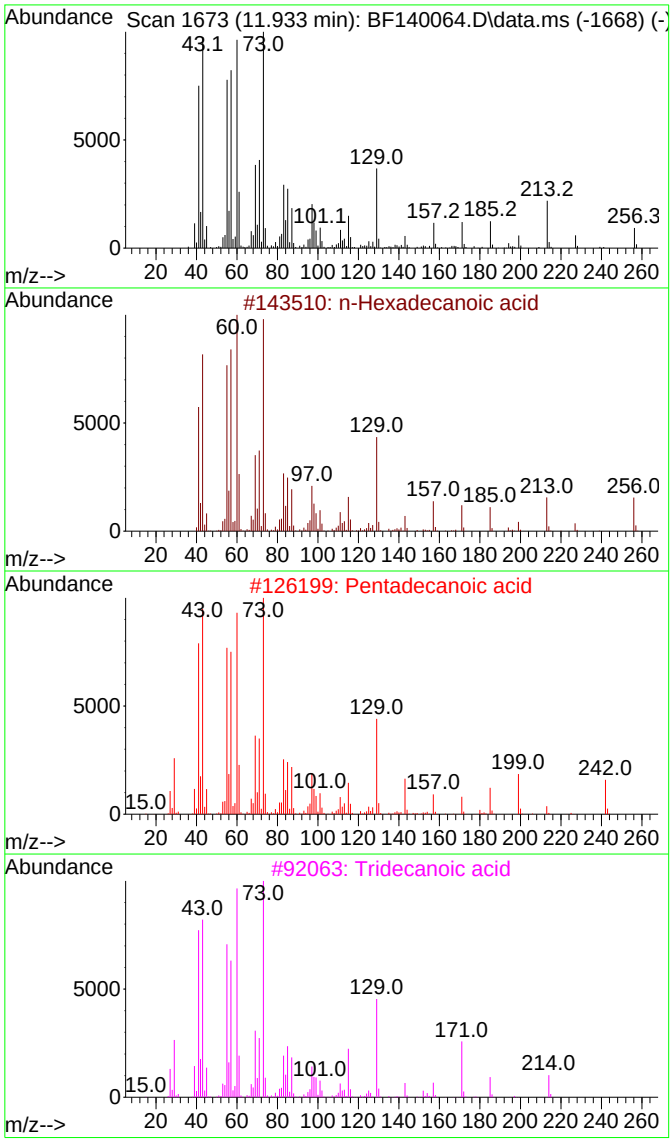
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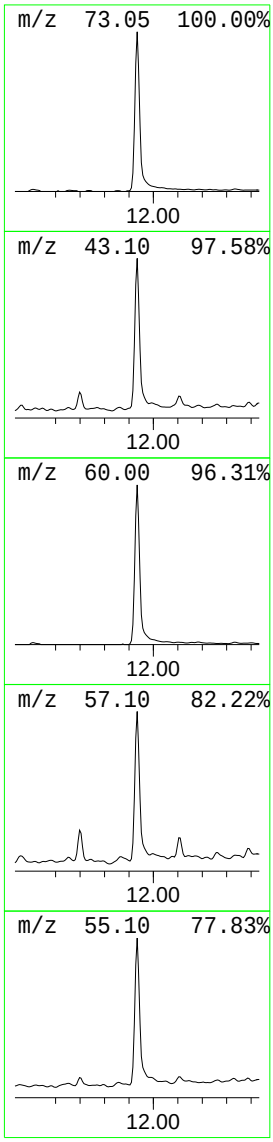
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Peak Number 9 n-Hexadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	10.49 ng	599654	Phenanthrene-d10	11.410

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	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Undecanoic acid	186	C11H22O2	000112-37-8	76





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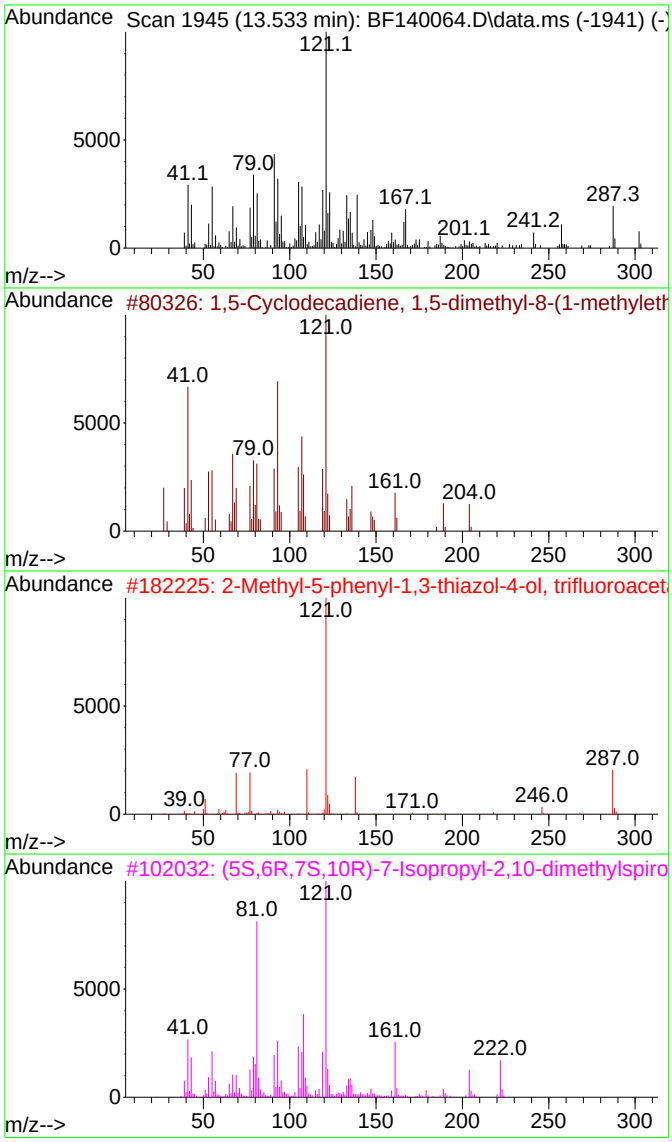
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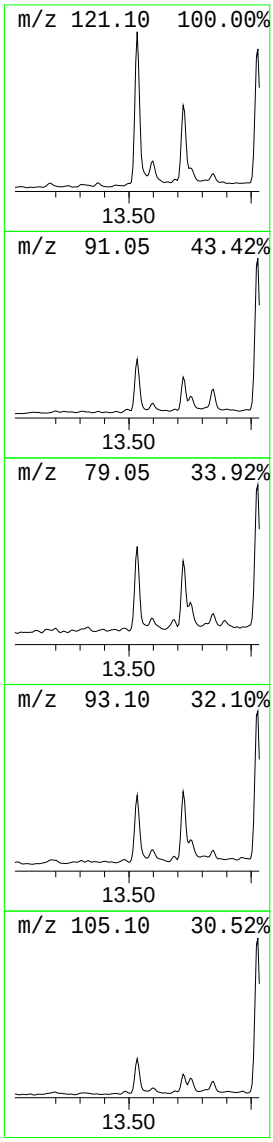
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Peak Number 10 unknown13.533 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.533	5.44 ng	259209	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5-Cyclodecadiene, 1,5-dimethyl...	204	C15H24	015423-57-1	47
2	2-Methyl-5-phenyl-1,3-thiazol-4-...	287	C12H8F3NO2S	1000471-95-1	43
3	(5S,6R,7S,10R)-7-Isopropyl-2,10-...	222	C15H26O	072203-99-7	43
4	.delta.8(14)-Isopimaric acid	302	C20H30O2	000471-74-9	42
5	1,4-Cyclohexadiene, 3,3,6,6-tetr...	136	C10H16	002223-54-3	30





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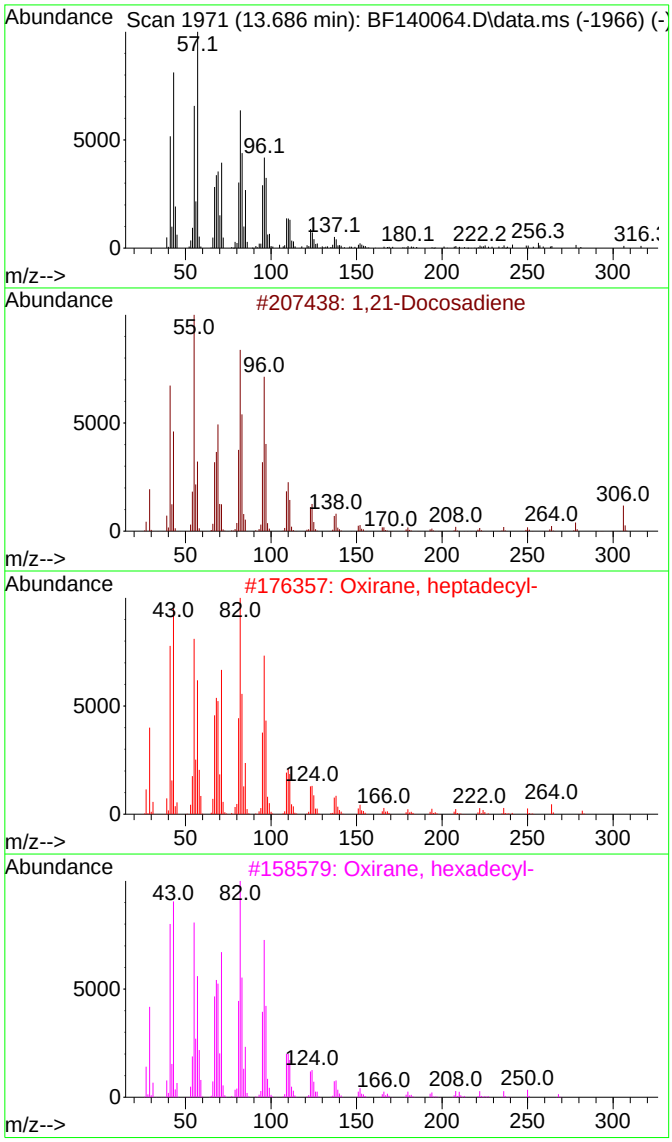
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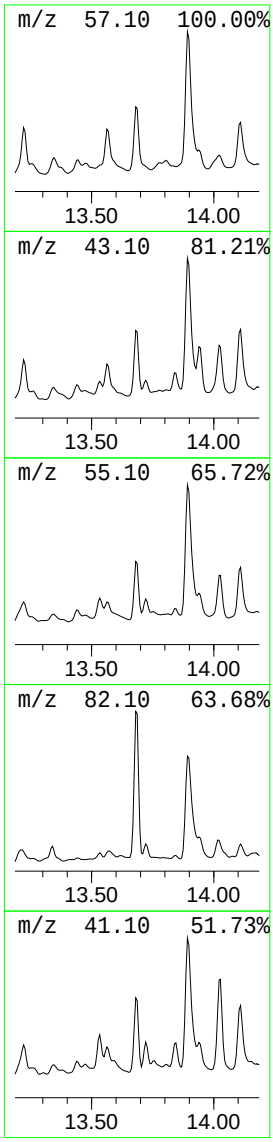
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Peak Number 11 1,21-Docosadiene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.686	6.17 ng	294193	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,21-Docosadiene	306	C22H42	053057-53-7	96
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
4	Octadecanal	268	C18H36O	000638-66-4	91
5	Pentadecanal-	226	C15H30O	002765-11-9	87





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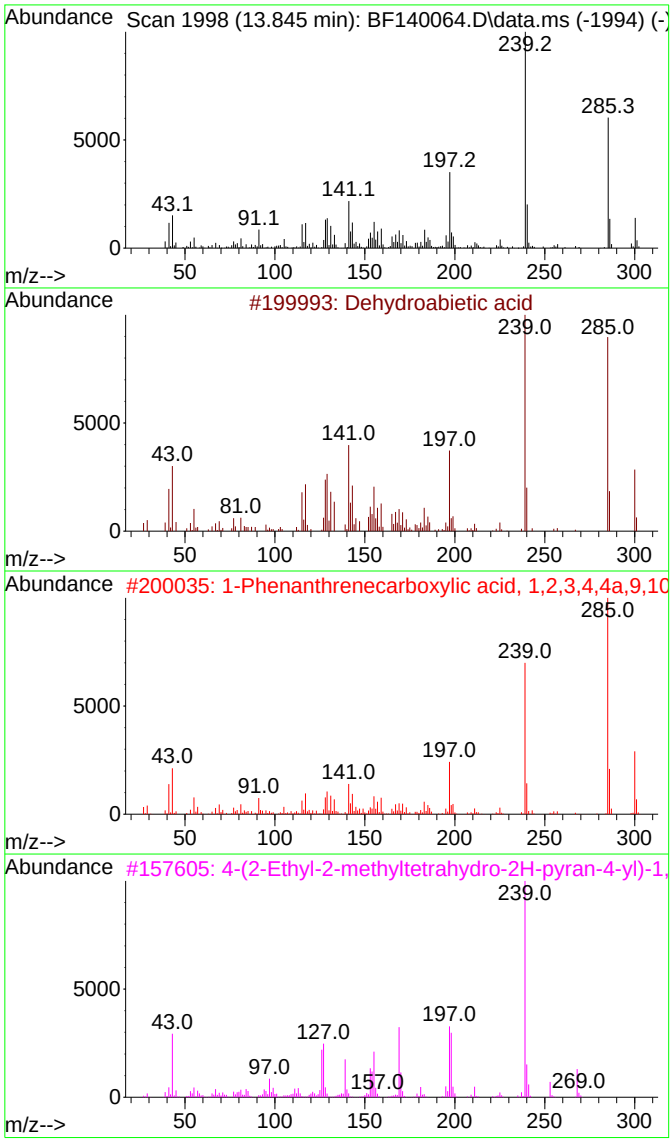
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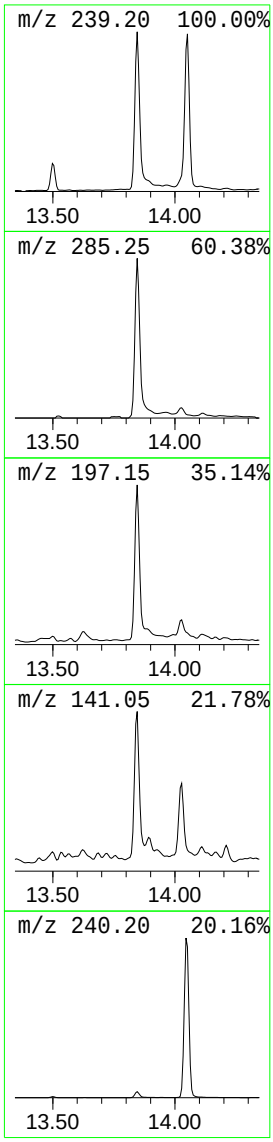
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Peak Number 12 Dehydroabietic acid Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.845	5.93 ng	282541	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dehydroabietic acid	300	C20H28O2	001740-19-8	99
2	1-Phenanthrenecarboxylic acid, 1...	300	C20H28O2	005155-70-4	94
3	4-(2-Ethyl-2-methyltetrahydro-2H...	268	C13H20N2O2S	1000479-90-5	43
4	2-Ethylidene-hydrazono-3-methyl-...	239	C10H10ClN3S	1000148-08-4	43
5	Imidazolo[2,1-b]thiazole, 5-(3-i...	239	C13H9N3S	327097-37-0	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

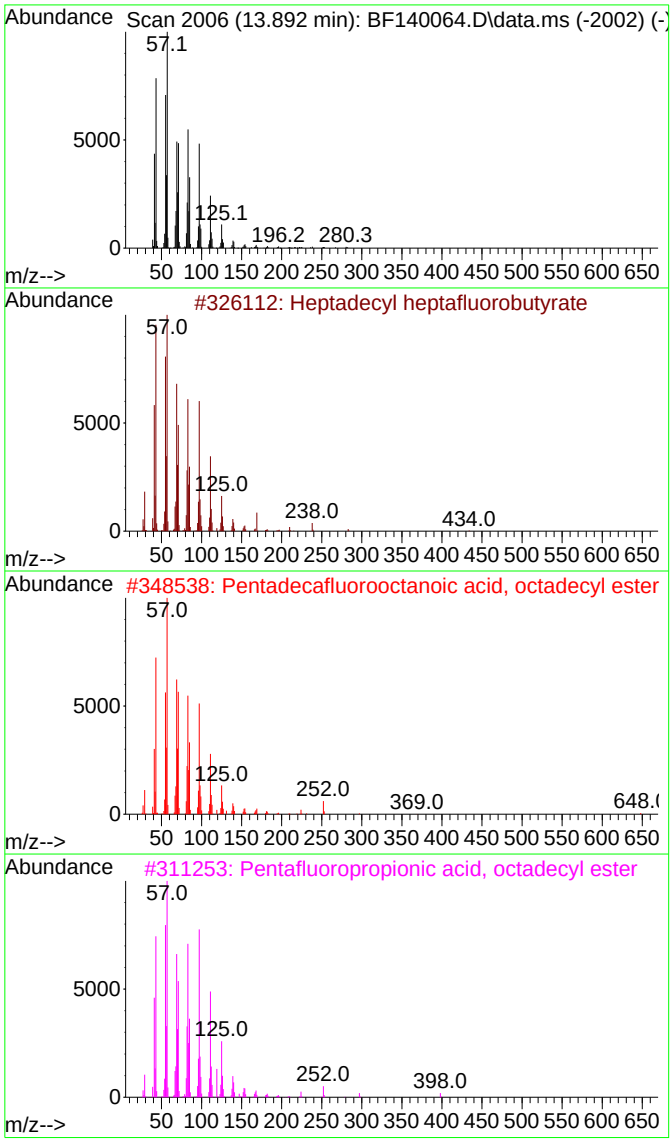
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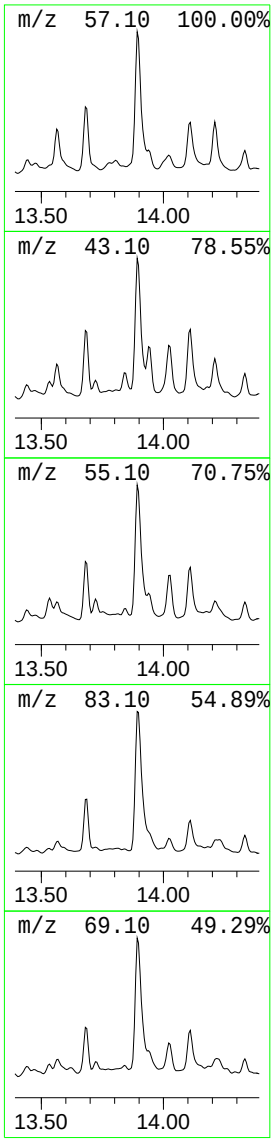
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Peak Number 13 Heptadecyl heptafluorobutyrate Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.892	13.45 ng	641279	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
2	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
3	Pentafluoropropionic acid, octad...	416	C21H37F5O2	959261-25-7	91
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

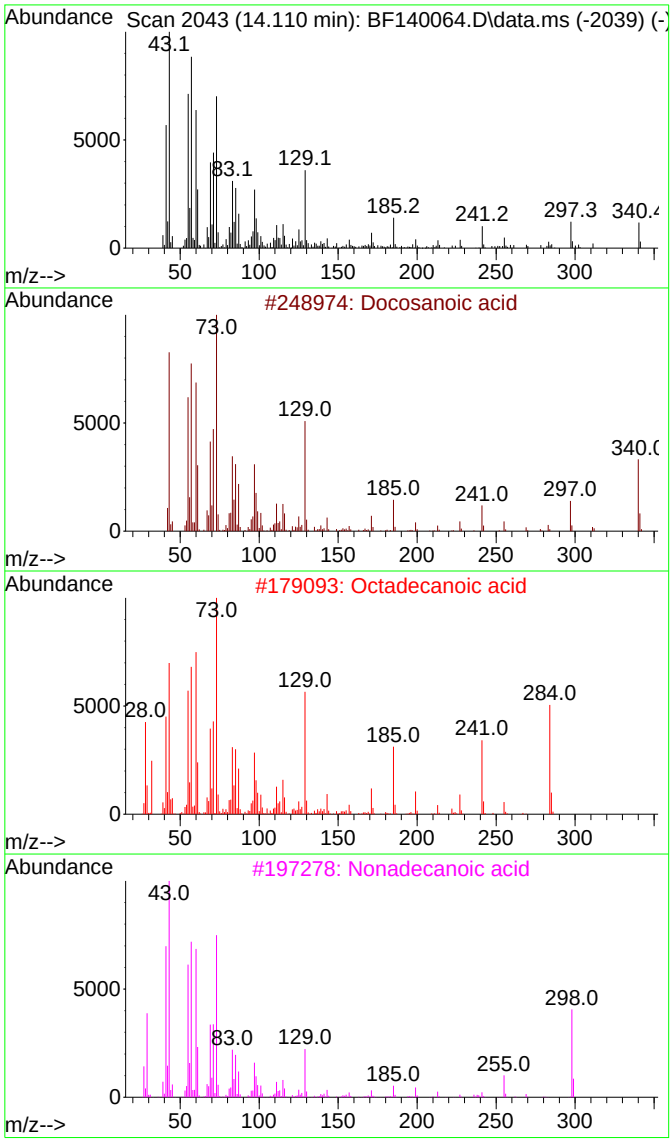
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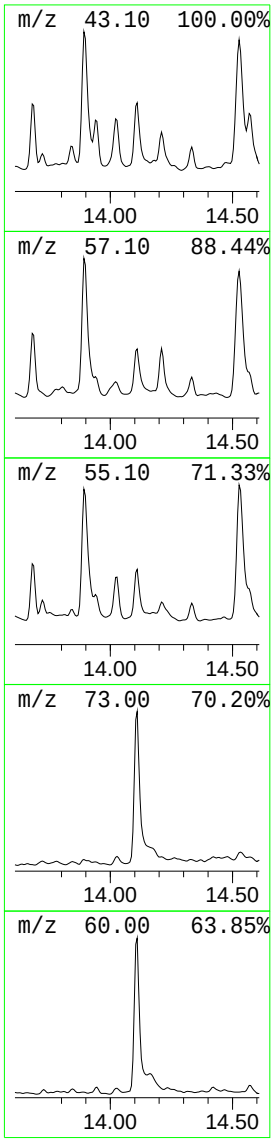
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Peak Number 14 Docosanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.110	6.24 ng	297625	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid	340	C22H44O2	000112-85-6	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	96
3	Nonadecanoic acid	298	C19H38O2	000646-30-0	95
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	60
5	Tridecanoic acid	214	C13H26O2	000638-53-9	45





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

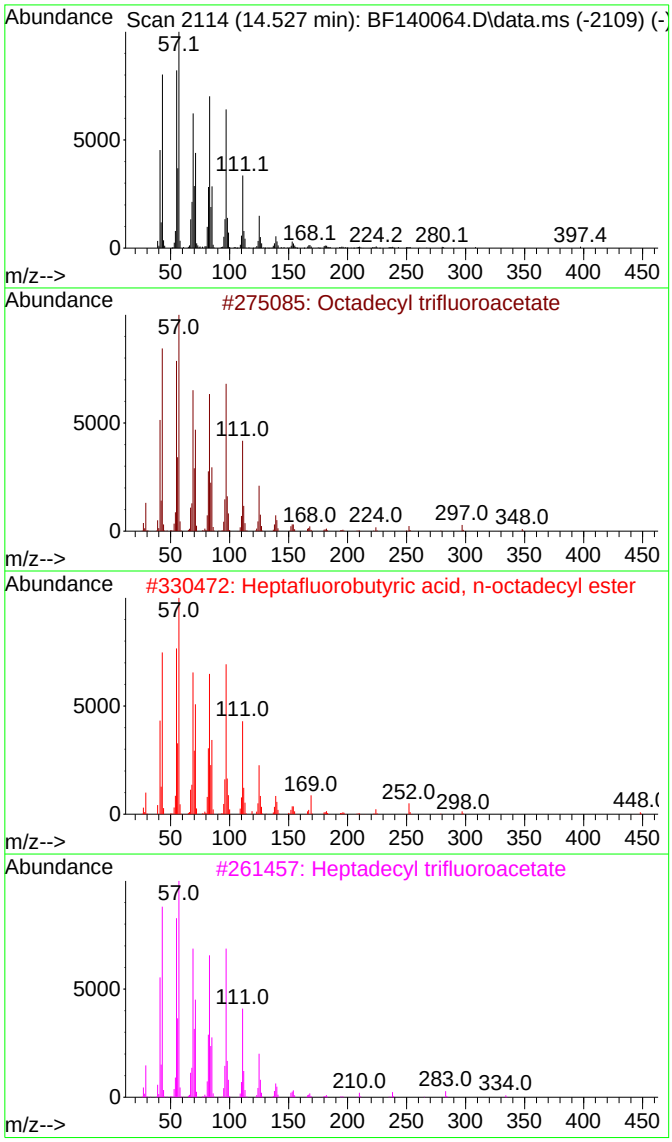
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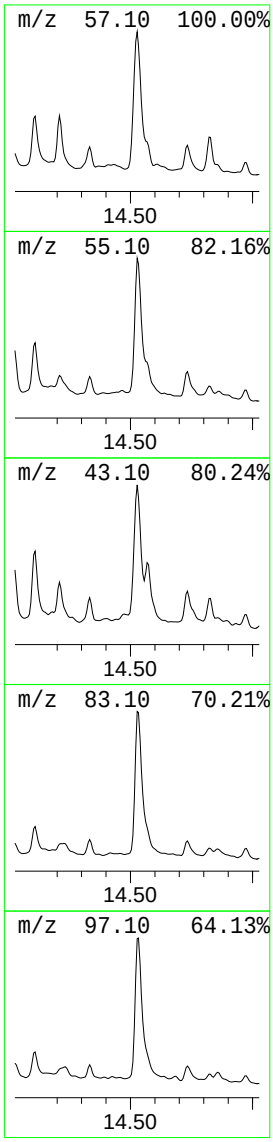
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Peak Number 15 Octadecyl trifluoroacetate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.527	16.93 ng	807285	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
2	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	94
3	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
4	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
5	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

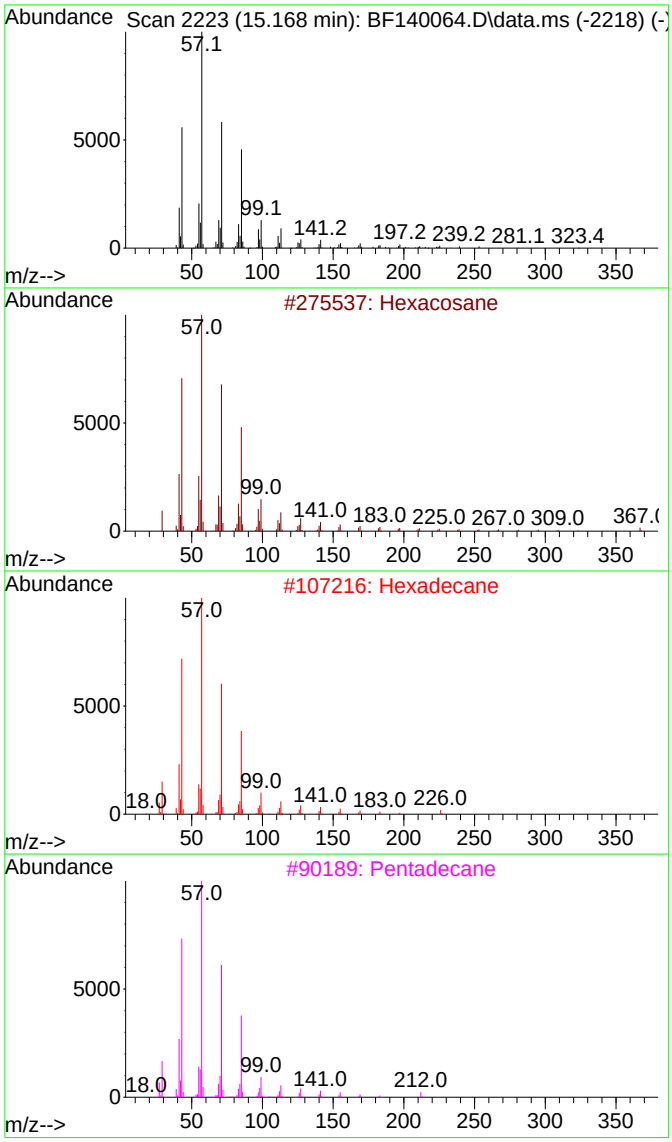
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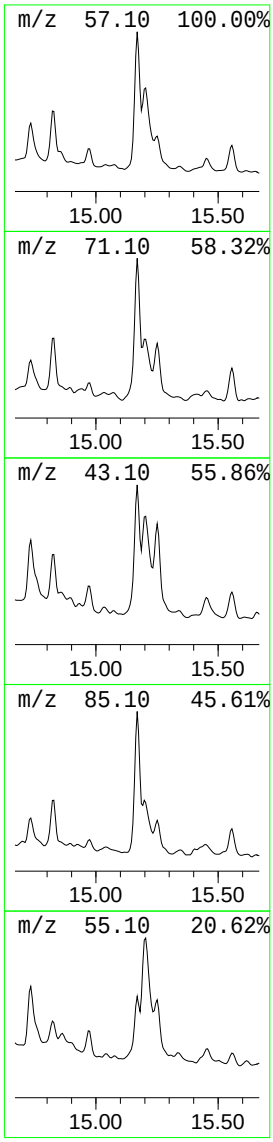
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Peak Number 16 Hexacosane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.168	5.86 ng	223350	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	94
2	Hexadecane	226	C16H34	000544-76-3	91
3	Pentadecane	212	C15H32	000629-62-9	90
4	Eicosane	282	C20H42	000112-95-8	87
5	Hexatriacontane	507	C36H74	000630-06-8	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

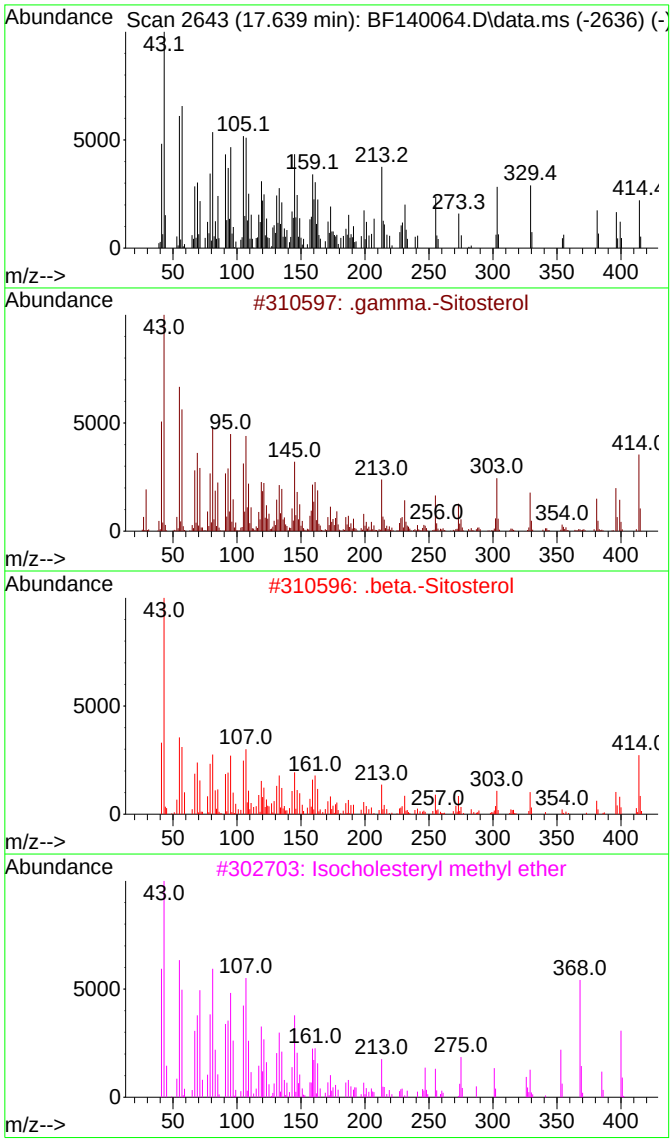
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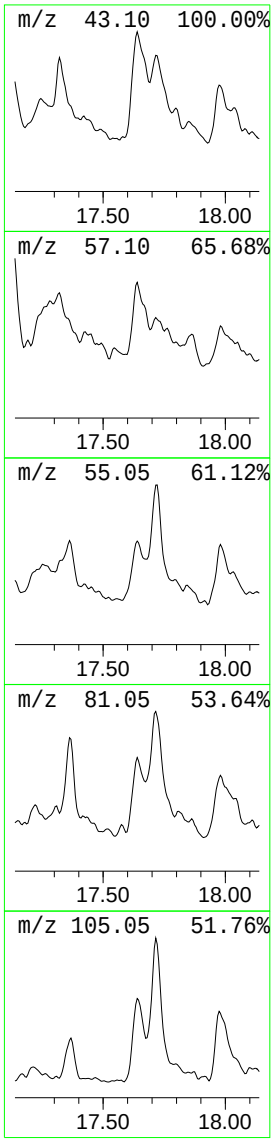
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Peak Number 17 .gamma.-Sitosterol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.639	7.07 ng	269605	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	97
3	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	53
4	Campesterol	400	C28H48O	000474-62-4	49
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

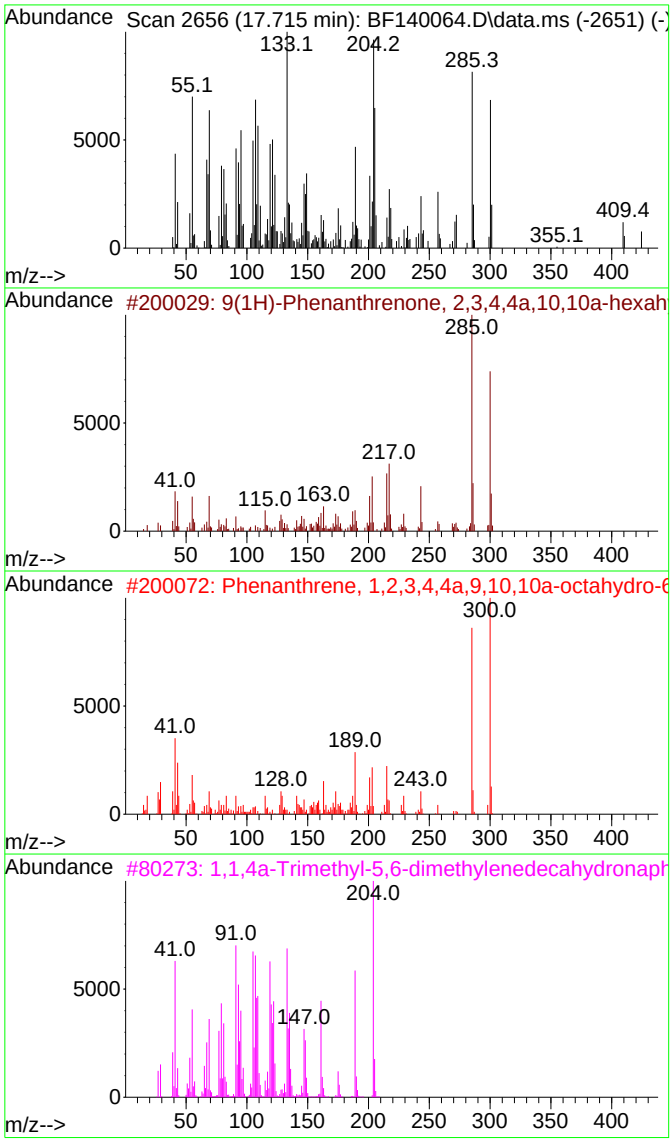
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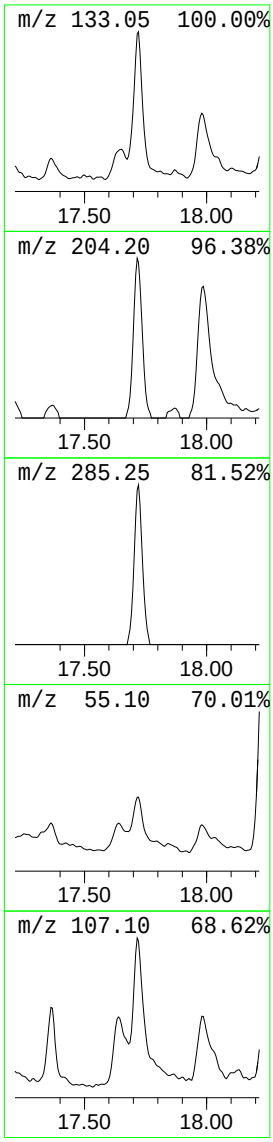
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Peak Number 18 9(1H)-Phenanthrenone, 2,3,4... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.715	12.25 ng	466793	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9(1H)-Phenanthrenone, 2,3,4,4a,1...	300	C20H28O2	000511-05-7	50
2	Phenanthrene, 1,2,3,4,4a,9,10,10...	300	C21H32O	010064-26-3	35
3	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	35
4	2-(4-Fluorophenyl)-1,3-benzoxazo...	300	C16H17FN2OSi	1000479-98-9	30
5	.beta.-Humulene	204	C15H24	000116-04-1	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

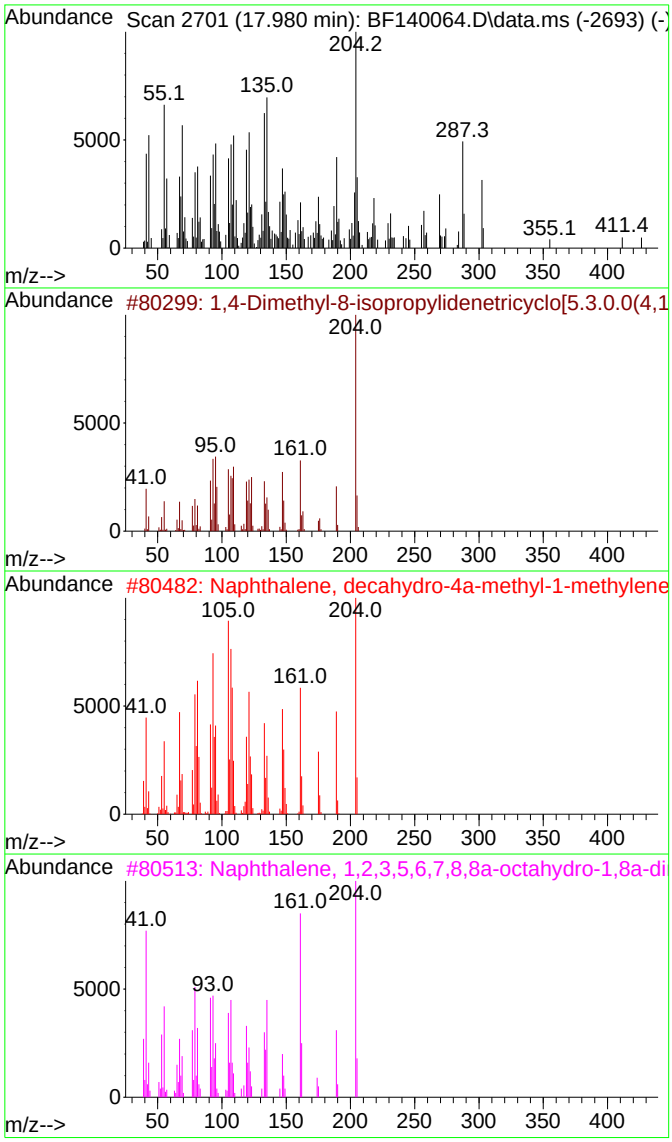
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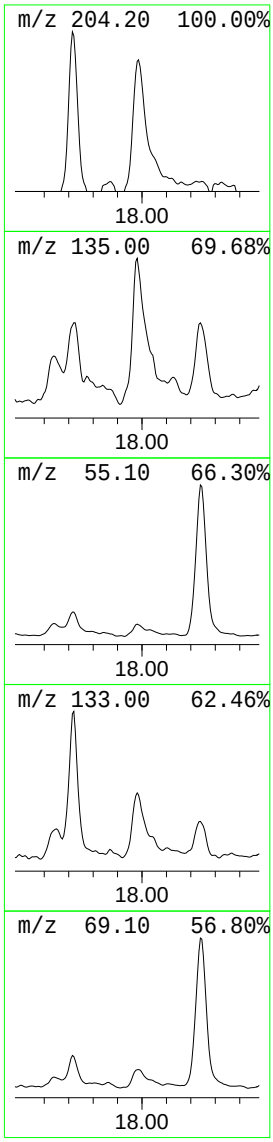
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Peak Number 19 1,4-Dimethyl-8-isopropylide... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.980	10.38 ng	395840	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1010140-07-7	70
2	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	70
3	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	62
4	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	62
5	2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

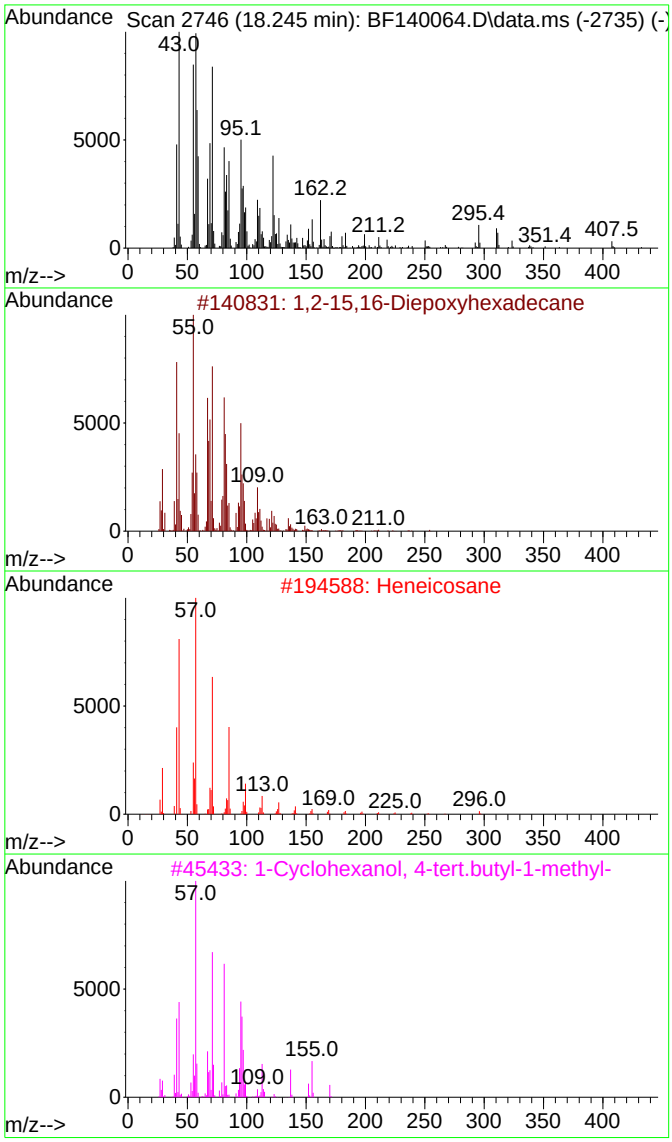
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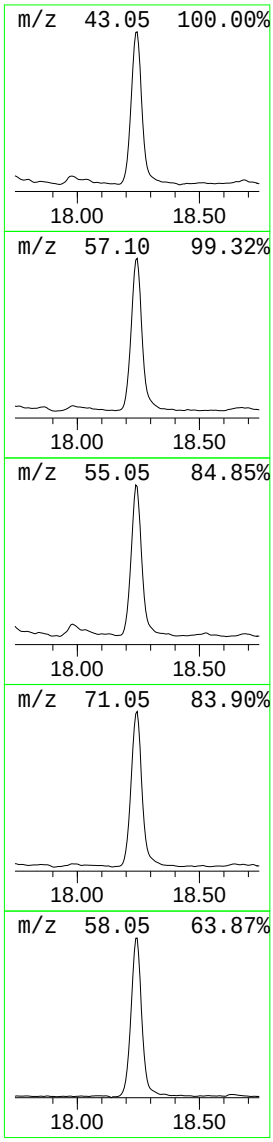
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Peak Number 20 1,2-15,16-Diepoxyhexadecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.245	46.29 ng	1764340	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-15,16-Diepoxyhexadecane	254	C16H30O2	1000192-65-0	50
2	Heneicosane	296	C21H44	000629-94-7	42
3	1-Cyclohexanol, 4-tert.butyl-1-m...	170	C11H22O	1010163-45-0	42
4	Tetradecane, 4-methyl-	212	C15H32	025117-24-2	38
5	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.216	50.0	ng	2208510	1	6.887	882895	20.0
.alpha.-Pinene	6.175	97.3	ng	4296460	1	6.887	882895	20.0
Camphene	6.340	5.9	ng	260291	1	6.887	882895	20.0
p-Cymene	6.963	14.9	ng	659118	1	6.887	882895	20.0
Fenchol	7.698	7.5	ng	435586	2	8.169	1163650	20.0
Bicyclo[2.2.1]h...	7.916	18.4	ng	1073710	2	8.169	1163650	20.0
endo-Borneol	8.075	7.0	ng	406599	2	8.169	1163650	20.0
Terpinen-4-ol	8.110	8.1	ng	472284	2	8.169	1163650	20.0
n-Hexadecanoic ...	11.933	10.5	ng	599654	4	11.410	1142740	20.0
unknown13.533	13.533	5.4	ng	259209	5	14.045	953505	20.0
1,21-Docosadiene	13.686	6.2	ng	294193	5	14.045	953505	20.0
Dehydroabietic ...	13.845	5.9	ng	282541	5	14.045	953505	20.0
Heptadecyl hept...	13.892	13.4	ng	641279	5	14.045	953505	20.0
Docosanoic acid	14.110	6.2	ng	297625	5	14.045	953505	20.0
Octadecyl trifl...	14.527	16.9	ng	807285	5	14.045	953505	20.0
Hexacosane	15.168	5.9	ng	223350	6	15.527	762355	20.0
.gamma.-Sitosterol	17.639	7.1	ng	269605	6	15.527	762355	20.0
9(1H)-Phenanthr...	17.715	12.3	ng	466793	6	15.527	762355	20.0
1,4-Dimethyl-8-...	17.980	10.4	ng	395840	6	15.527	762355	20.0
1,2-15,16-Diepo...	18.245	46.3	ng	1764340	6	15.527	762355	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Time: Oct 24 11:02:56 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

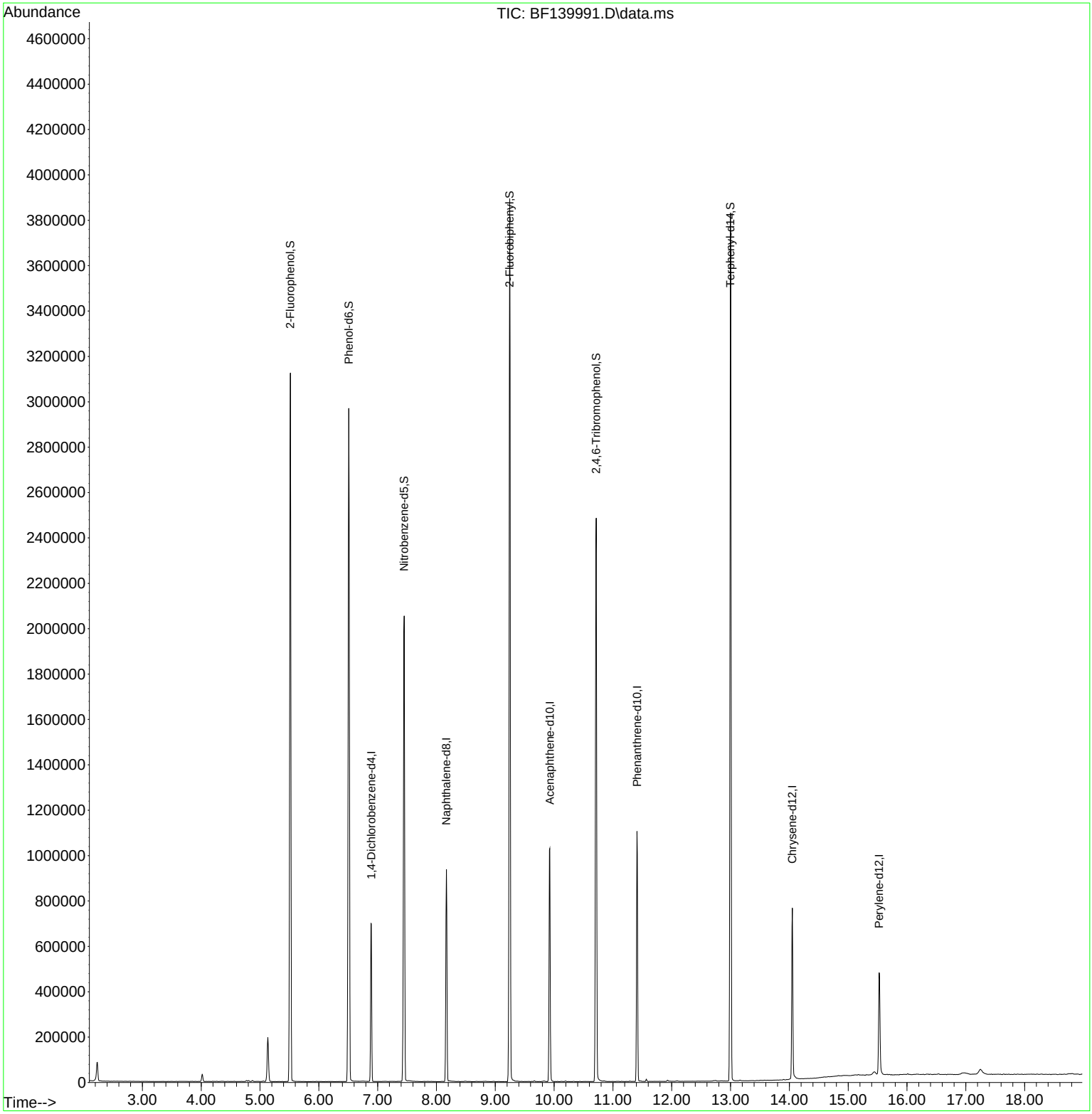
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	147139	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	571542	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	324595	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	586249	20.000	ng	0.00
76) Chrysene-d12	14.051	240	355232	20.000	ng	0.00
86) Perylene-d12	15.527	264	286763	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1228240	130.679	ng	0.02
7) Phenol-d6	6.510	99	1528051	125.527	ng	0.00
23) Nitrobenzene-d5	7.451	82	994841	96.472	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	478528	157.610	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1832630	93.310	ng	0.00
79) Terphenyl-d14	12.998	244	2024925	92.885	ng	0.00
Target Compounds						Qvalue

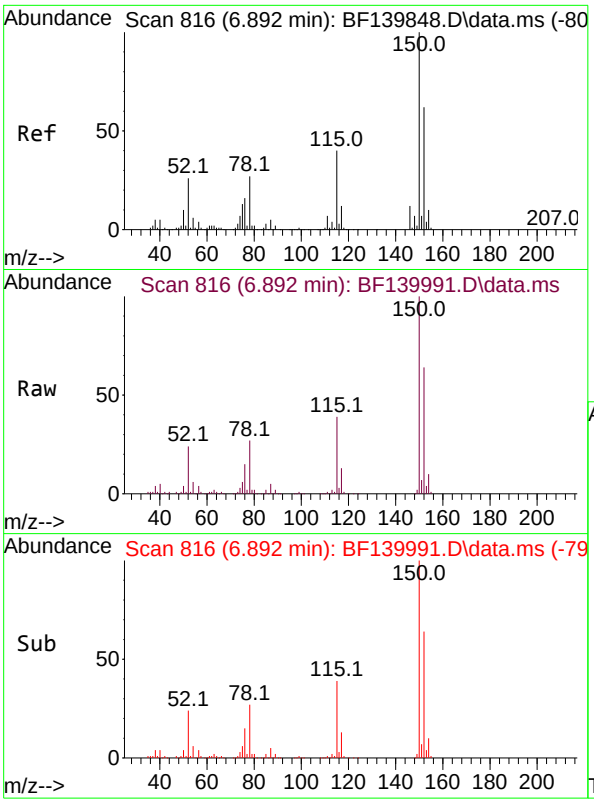
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Time: Oct 24 11:02:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



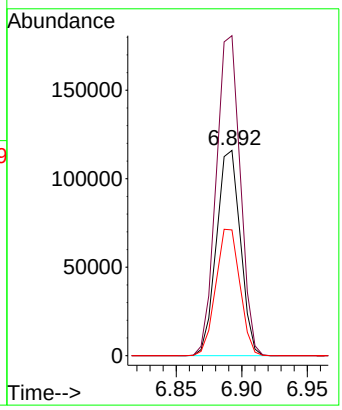


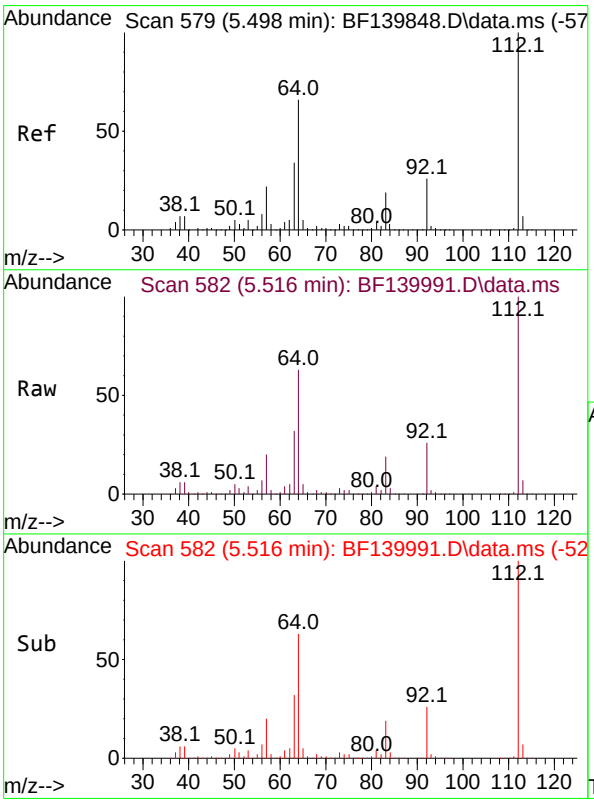
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:152 Resp: 147139

Ion	Ratio	Lower	Upper
152	100		
150	155.8	130.2	195.2
115	61.2	51.4	77.2

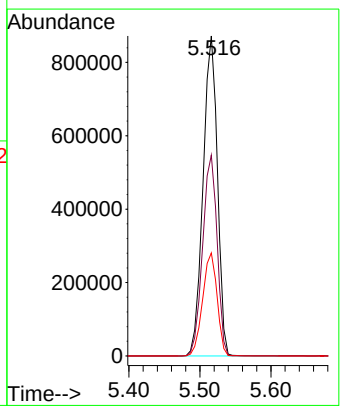


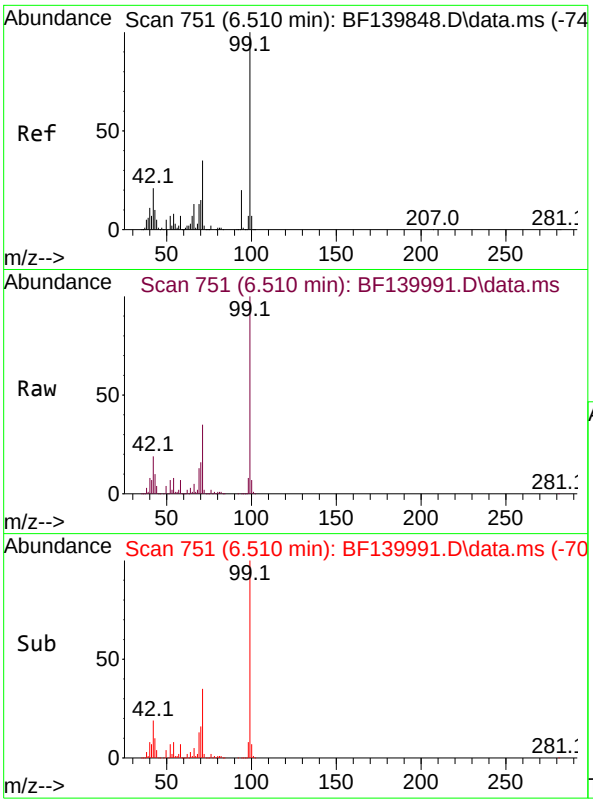


#5
2-Fluorophenol
Concen: 130.679 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:112 Resp: 1228240

Ion	Ratio	Lower	Upper
112	100		
64	62.8	53.0	79.6
63	32.2	27.0	40.4



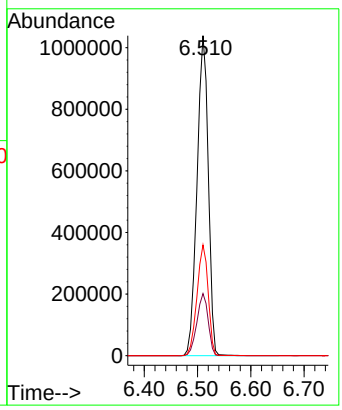


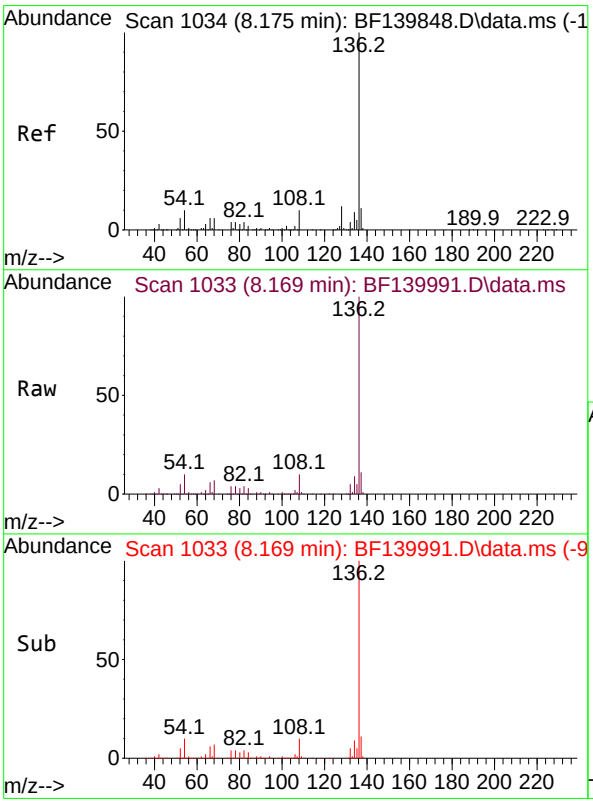
#7
Phenol-d6
Concen: 125.527 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion: 99 Resp: 1528051

Ion	Ratio	Lower	Upper
99	100		
42	19.4	16.7	25.1
71	34.6	27.7	41.5

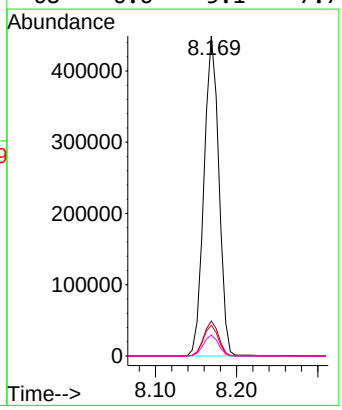


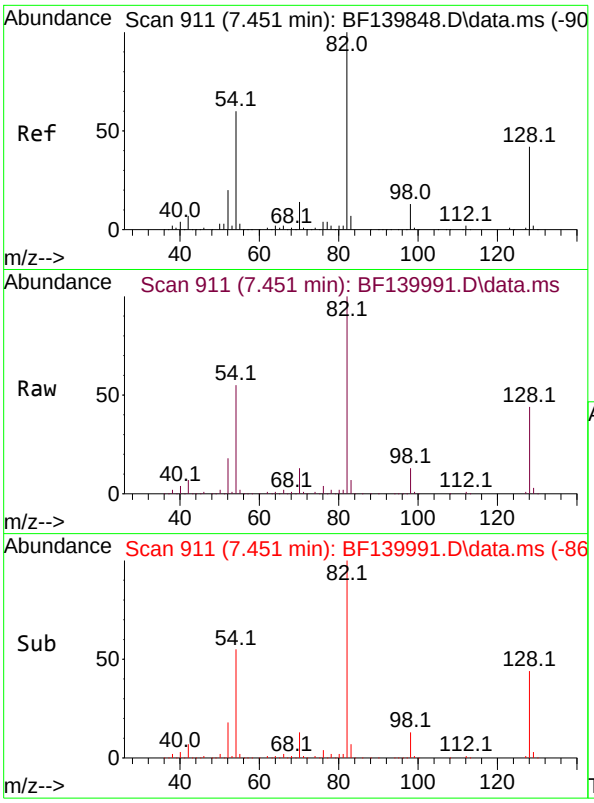


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:136 Resp: 571542

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.6	8.4	12.6
68	6.6	5.1	7.7



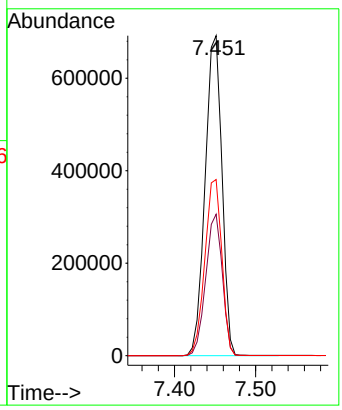


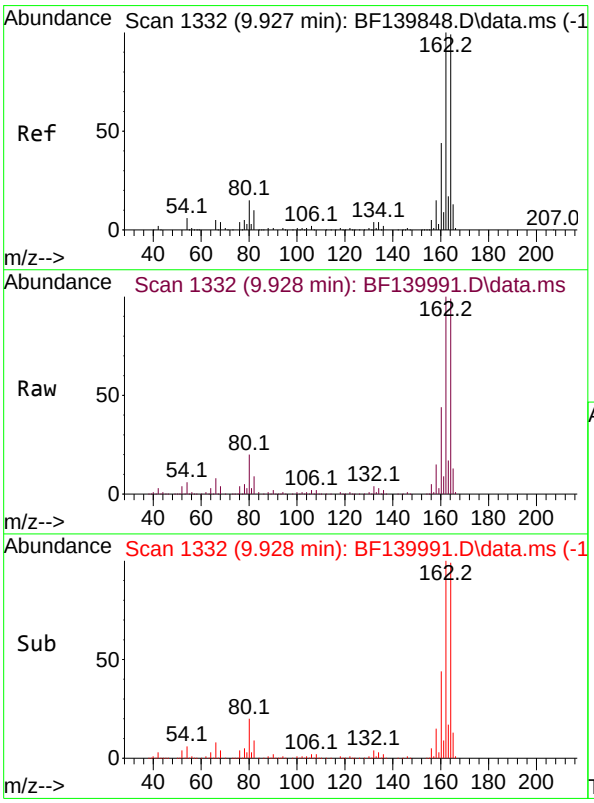
#23
Nitrobenzene-d5
Concen: 96.472 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion: 82 Resp: 994841

Ion	Ratio	Lower	Upper
82	100		
128	44.2	33.4	50.0
54	55.1	47.8	71.8

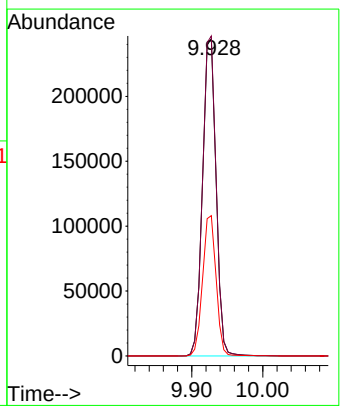


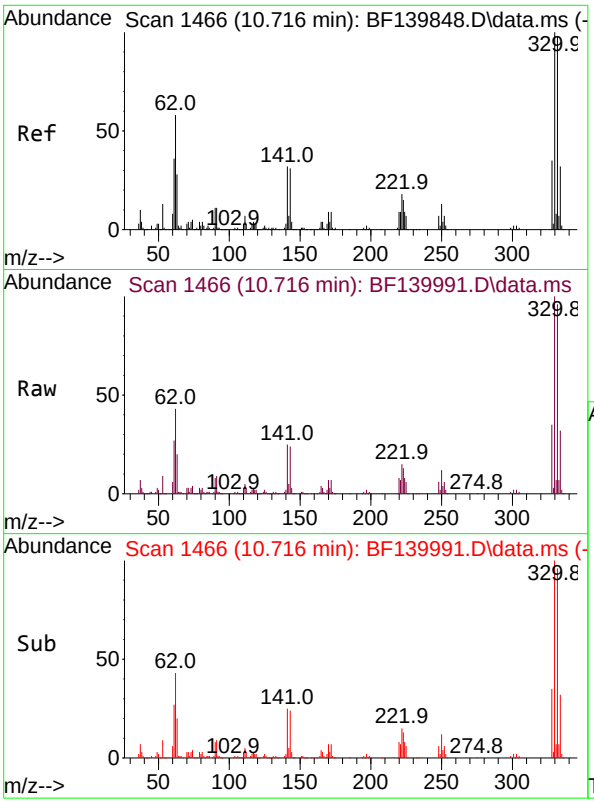


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:164 Resp: 324595

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.4
160	44.2	35.4	53.0



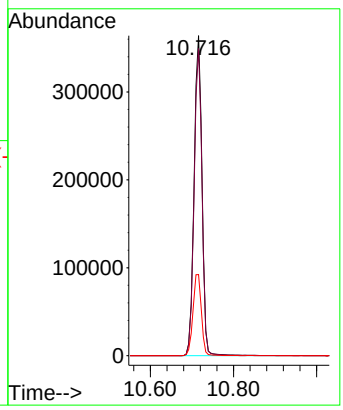


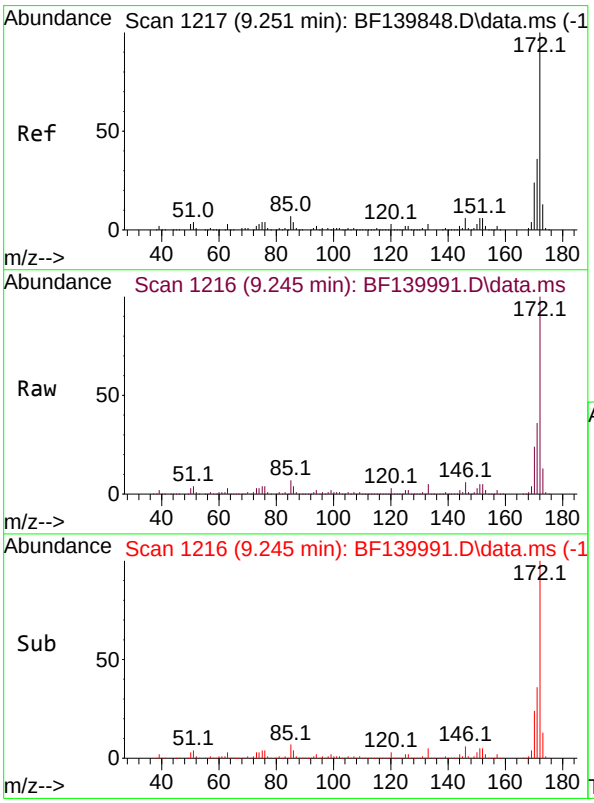
#42
2,4,6-Tribromophenol
Concen: 157.610 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:330 Resp: 478528

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.1	117.1
141	27.0	26.6	39.8

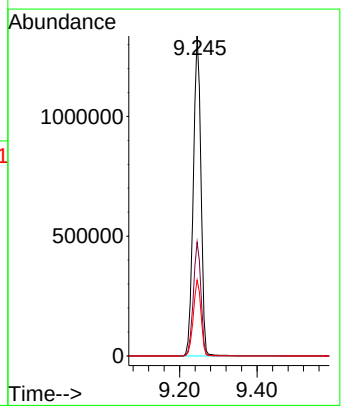


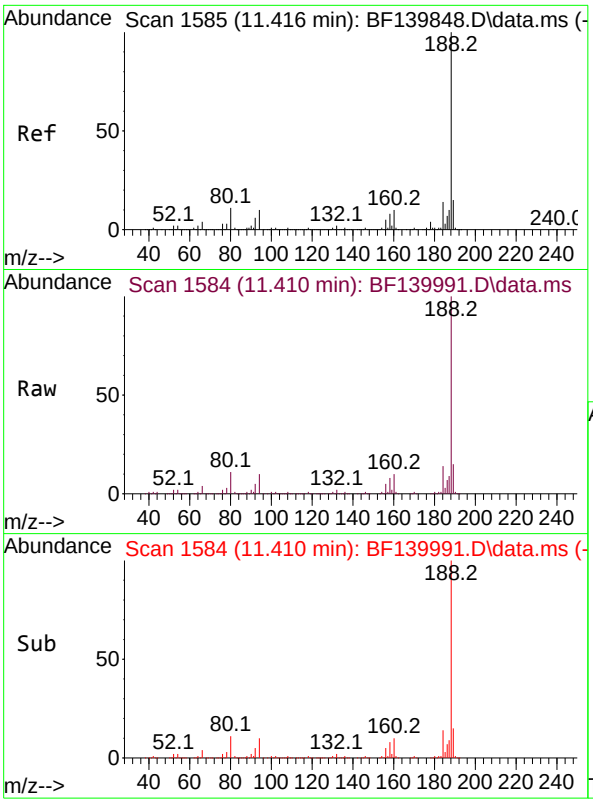


#45
2-Fluorobiphenyl
Concen: 93.310 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:172 Resp: 1832630

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	23.8	19.1	28.7



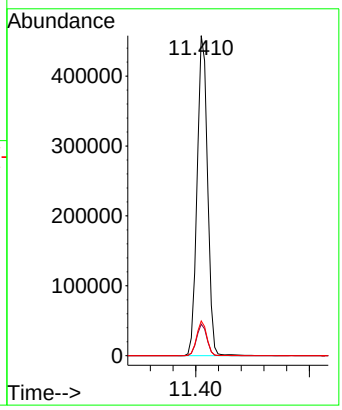


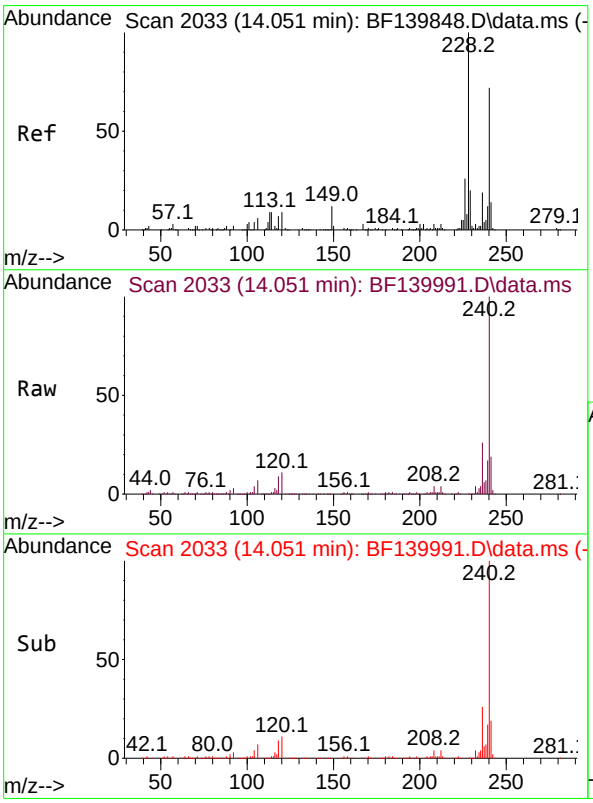
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:188 Resp: 586249

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.9	11.9
80	10.9	9.0	13.4

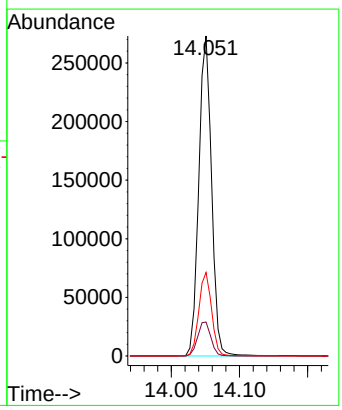


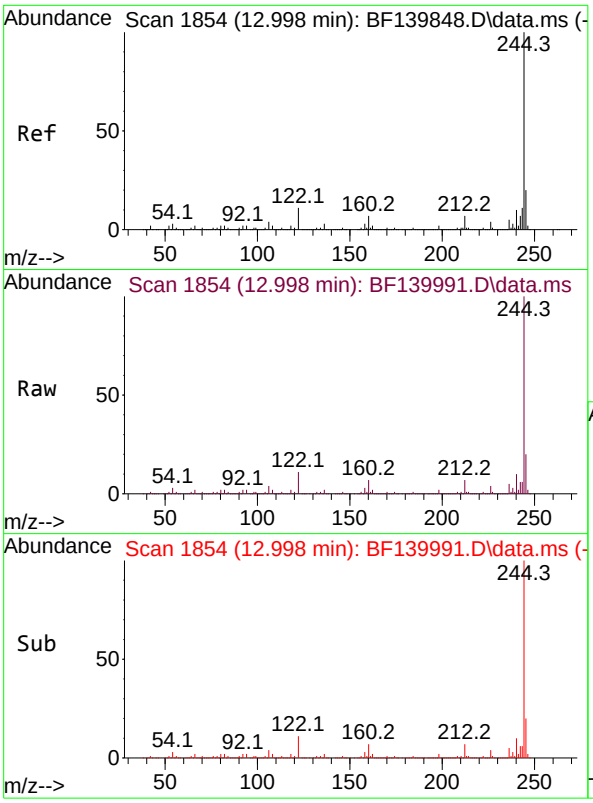


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:240 Resp: 355232

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.4	14.2
236	26.1	20.9	31.3



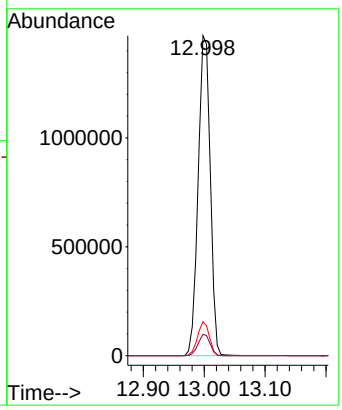


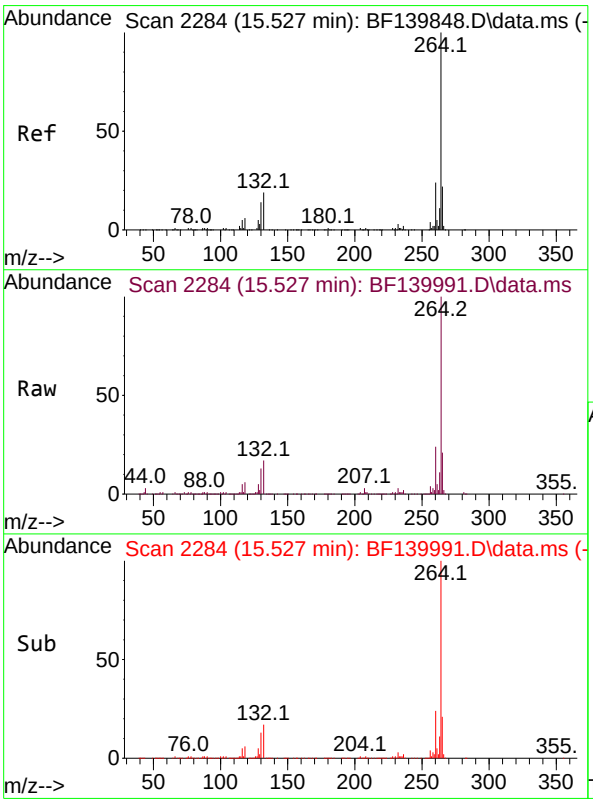
#79
Terphenyl-d14
Concen: 92.885 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:244 Resp: 2024925

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	10.6	8.6	13.0

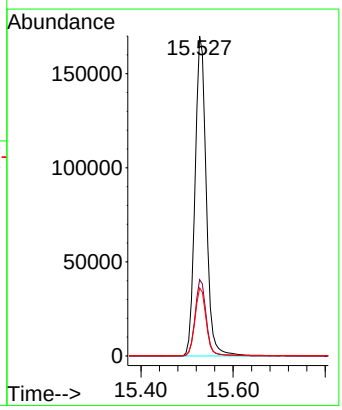




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:264 Resp: 286763

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.4	29.2
265	21.3	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139991.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.234	13	24	31	rVB	81415	146620	2.78%	0.449%
2	5.134	509	517	525	rVB	193943	322201	6.12%	0.987%
3	5.516	575	582	587	rBV	3122725	4409664	83.71%	13.502%
4	6.510	744	751	756	rBV	2966980	4349459	82.57%	13.317%
5	6.887	810	815	821	rVB	696449	894857	16.99%	2.740%
6	7.451	904	911	916	rBV	2051451	2947021	55.94%	9.023%
7	8.169	1027	1033	1038	rBV	935332	1187285	22.54%	3.635%
8	9.245	1209	1216	1221	rBV	3890823	5267877	100.00%	16.129%
9	9.928	1326	1332	1346	rVB	1027470	1373676	26.08%	4.206%
10	10.716	1459	1466	1484	rBV	2482772	3394559	64.44%	10.394%
11	11.410	1579	1584	1590	rBV	1102228	1396849	26.52%	4.277%
12	12.998	1848	1854	1860	rBV	3825439	5202454	98.76%	15.929%
13	14.051	2027	2033	2055	rVB	752452	1019120	19.35%	3.120%
14	15.527	2278	2284	2298	rVB	448263	748368	14.21%	2.291%

Sum of corrected areas: 32660010

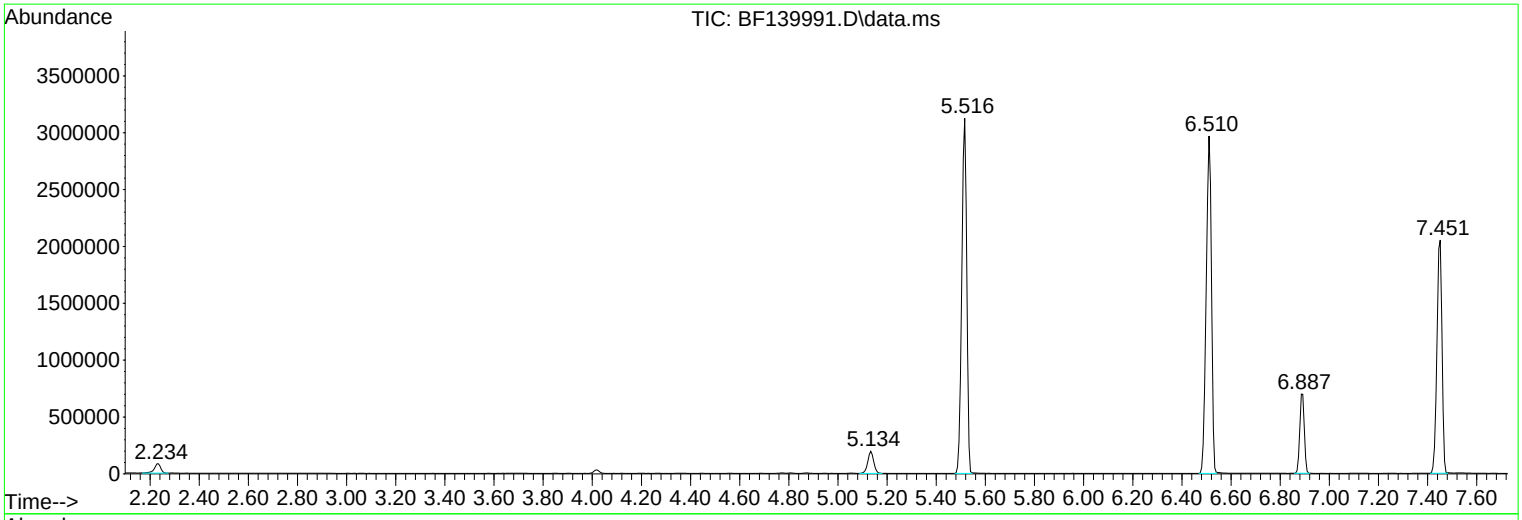
Sample Results: **BF139991.D**

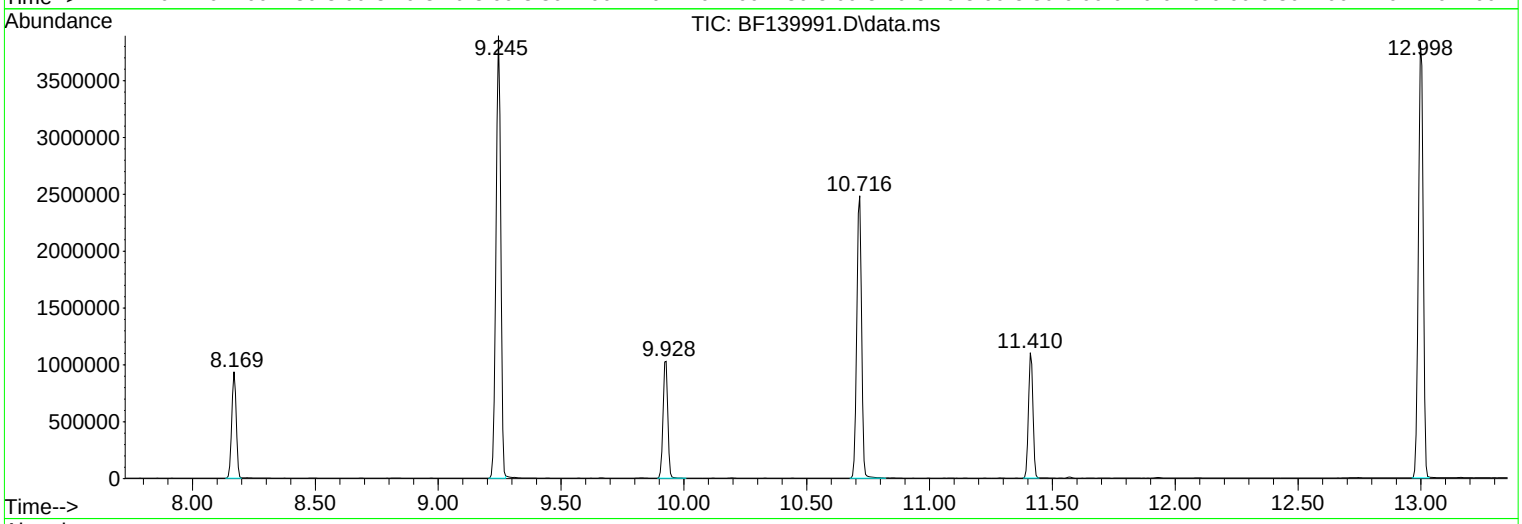
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

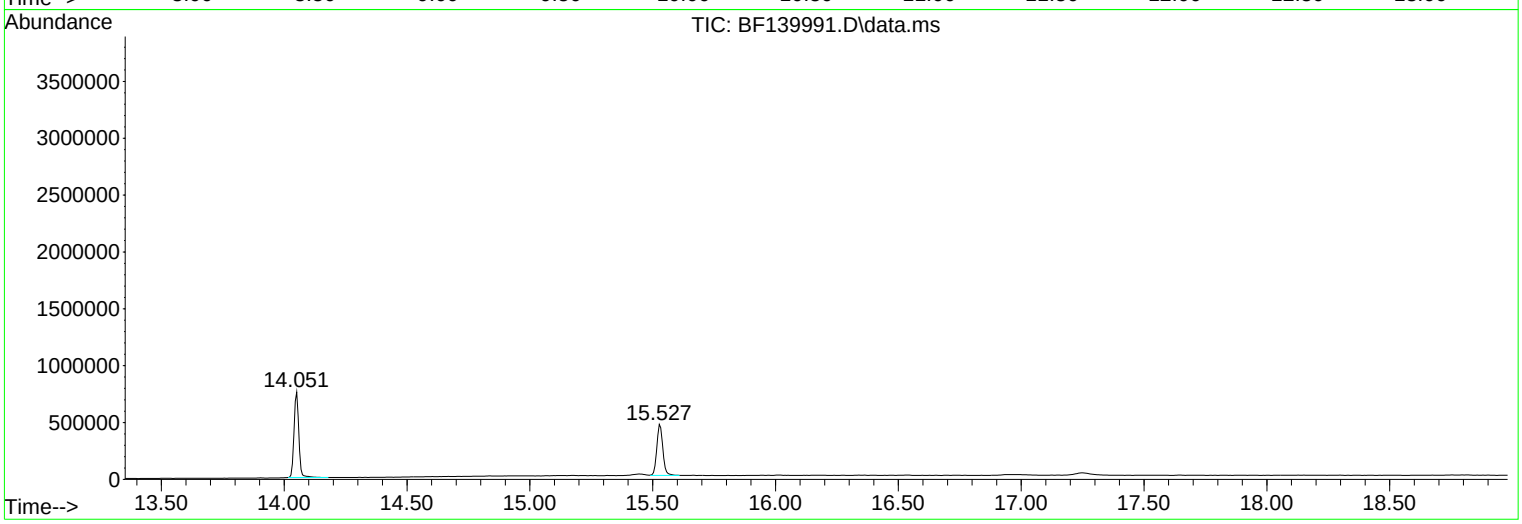
Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

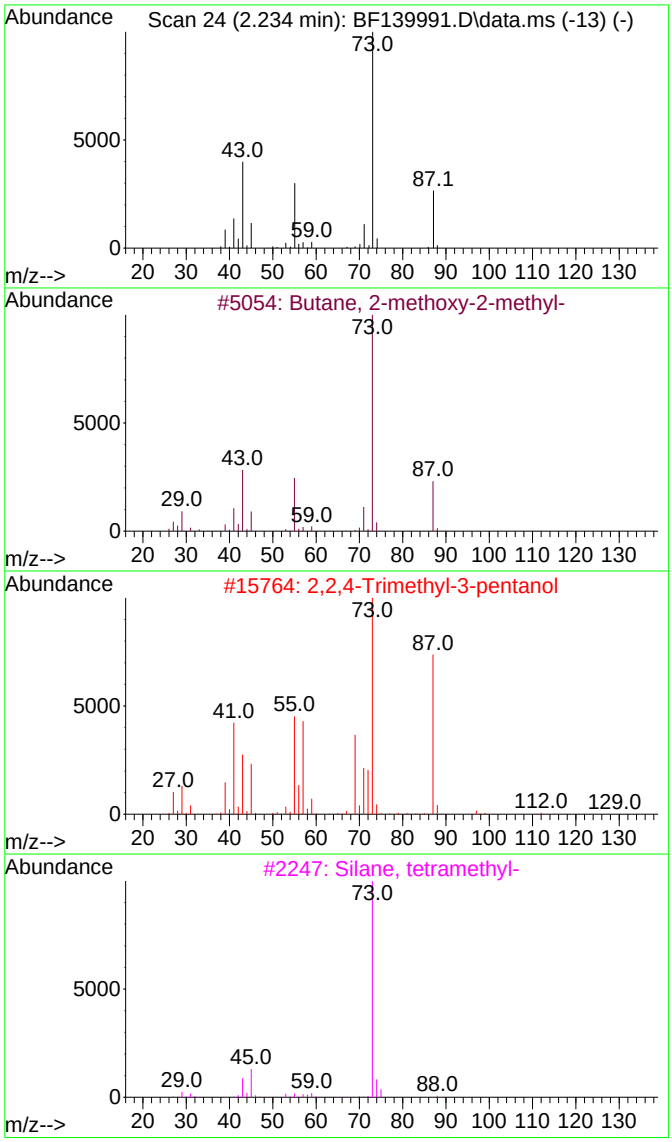
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

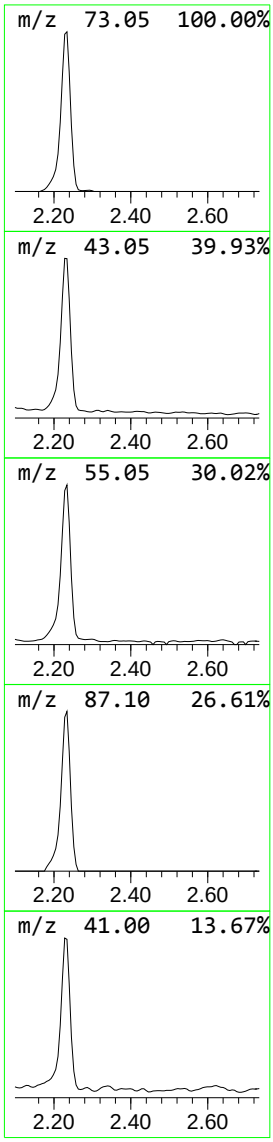
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.234	3.28 ng	146620	1,4-Dichlorobenzene-d4	6.892

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	38
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

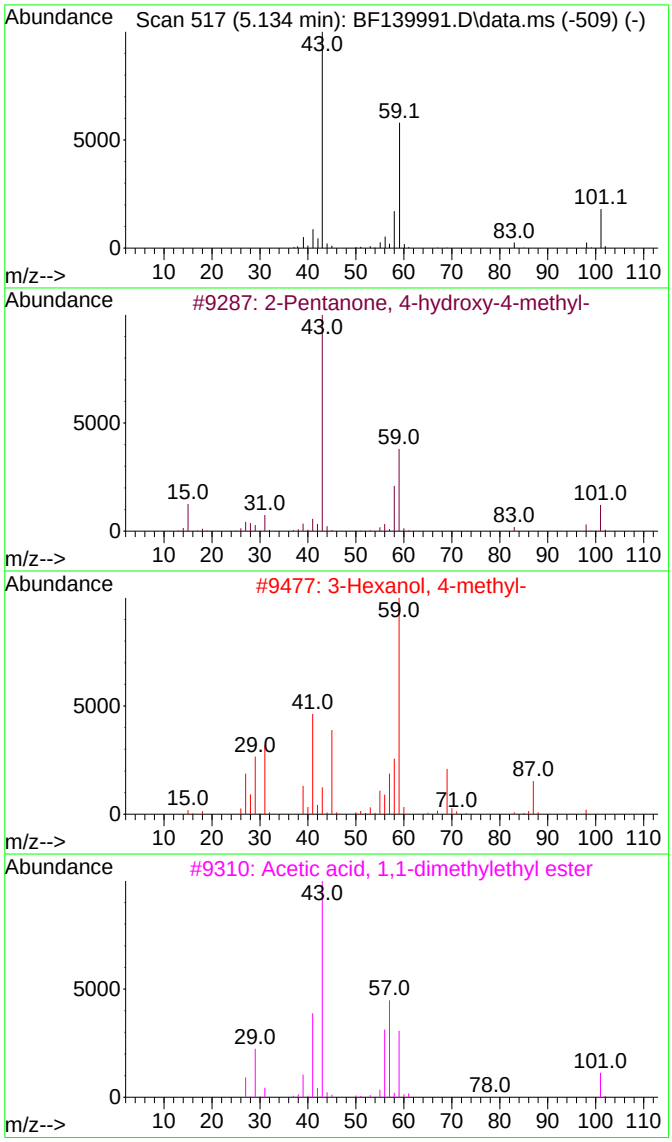
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

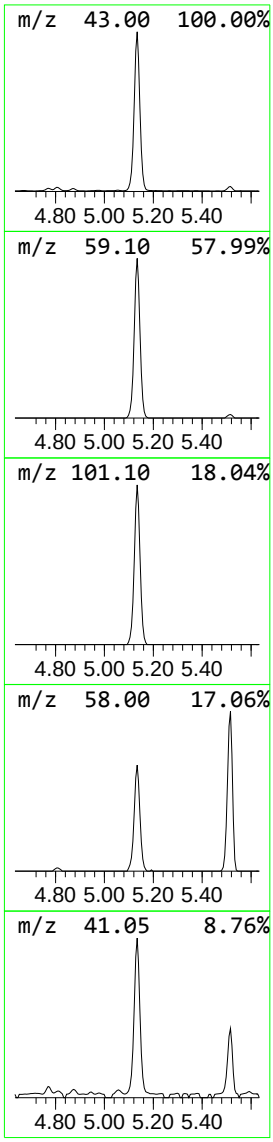
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	7.20 ng	322201	1,4-Dichlorobenzene-d4	6.892

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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
Butane, 2-metho...	2.234	3.3	ng	146620	1	6.892	894857	20.0
2-Pentanone, 4-...	5.134	7.2	ng	322201	1	6.892	894857	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139992.D
Acq On : 24 Oct 2024 10:52
Operator : RC/JU
Sample : PB164312BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BS

Quant Time: Oct 24 11:20:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	158670	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	605986	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	338004	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	591954	20.000	ng		0.00
76) Chrysene-d12	14.057	240	292113	20.000	ng		0.00
86) Perylene-d12	15.533	264	314861	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.522	112	1308935	129.144	ng		0.02
7) Phenol-d6	6.516	99	1648944	125.614	ng		0.00
23) Nitrobenzene-d5	7.451	82	1086965	99.414	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	494913	156.540	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1920305	93.895	ng		0.00
79) Terphenyl-d14	12.998	244	1881226	104.940	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.775	88	180701	38.238	ng		93
3) Pyridine	3.528	79	476327	40.665	ng		96
4) n-Nitrosodimethylamine	3.481	42	264705	42.061	ng		94
6) Aniline	6.551	93	590576	48.273	ng		99
8) 2-Chlorophenol	6.675	128	500078	48.263	ng		97
9) Benzaldehyde	6.439	77	110010	14.897	ng		98
10) Phenol	6.534	94	605793m	44.763	ng		
11) bis(2-Chloroethyl)ether	6.628	93	480190	45.906	ng		99
12) 1,3-Dichlorobenzene	6.834	146	537956	45.228	ng		99
13) 1,4-Dichlorobenzene	6.910	146	540145	45.455	ng		99
14) 1,2-Dichlorobenzene	7.063	146	523441	47.197	ng		98
15) Benzyl Alcohol	7.028	79	454342	47.184	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	786365	44.088	ng		97
17) 2-Methylphenol	7.139	107	405261	45.868	ng		100
18) Hexachloroethane	7.404	117	194546	45.910	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	361075	45.352	ng		96
20) 3+4-Methylphenols	7.292	107	492067	43.542	ng	#	81
22) Acetophenone	7.298	105	677280	45.631	ng		99
24) Nitrobenzene	7.475	77	542543	45.258	ng		98
25) Isophorone	7.710	82	983786	47.406	ng		100
26) 2-Nitrophenol	7.786	139	262619	58.071	ng		95
27) 2,4-Dimethylphenol	7.822	122	412612	54.717	ng		99
28) bis(2-Chloroethoxy)met...	7.922	93	586376	46.637	ng		99
29) 2,4-Dichlorophenol	8.028	162	408904	47.607	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	439184	46.210	ng		99
31) Naphthalene	8.192	128	1446510	46.284	ng		100
32) Benzoic acid	7.939	122	317111	48.215	ng		95
33) 4-Chloroaniline	8.239	127	379752	35.634	ng		98
34) Hexachlorobutadiene	8.310	225	283363	47.452	ng		99
35) Caprolactam	8.610	113	129458m	47.402	ng		
36) 4-Chloro-3-methylphenol	8.716	107	442021	46.476	ng		98
37) 2-Methylnaphthalene	8.886	142	907765	47.426	ng		99
38) 1-Methylnaphthalene	8.986	142	843621	44.923	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	429093	47.056	ng		99
41) Hexachlorocyclopentadiene	9.039	237	572352	180.387	ng		99
43) 2,4,6-Trichlorophenol	9.163	196	319801	49.535	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139992.D
Acq On : 24 Oct 2024 10:52
Operator : RC/JU
Sample : PB164312BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BS

Quant Time: Oct 24 11:20:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

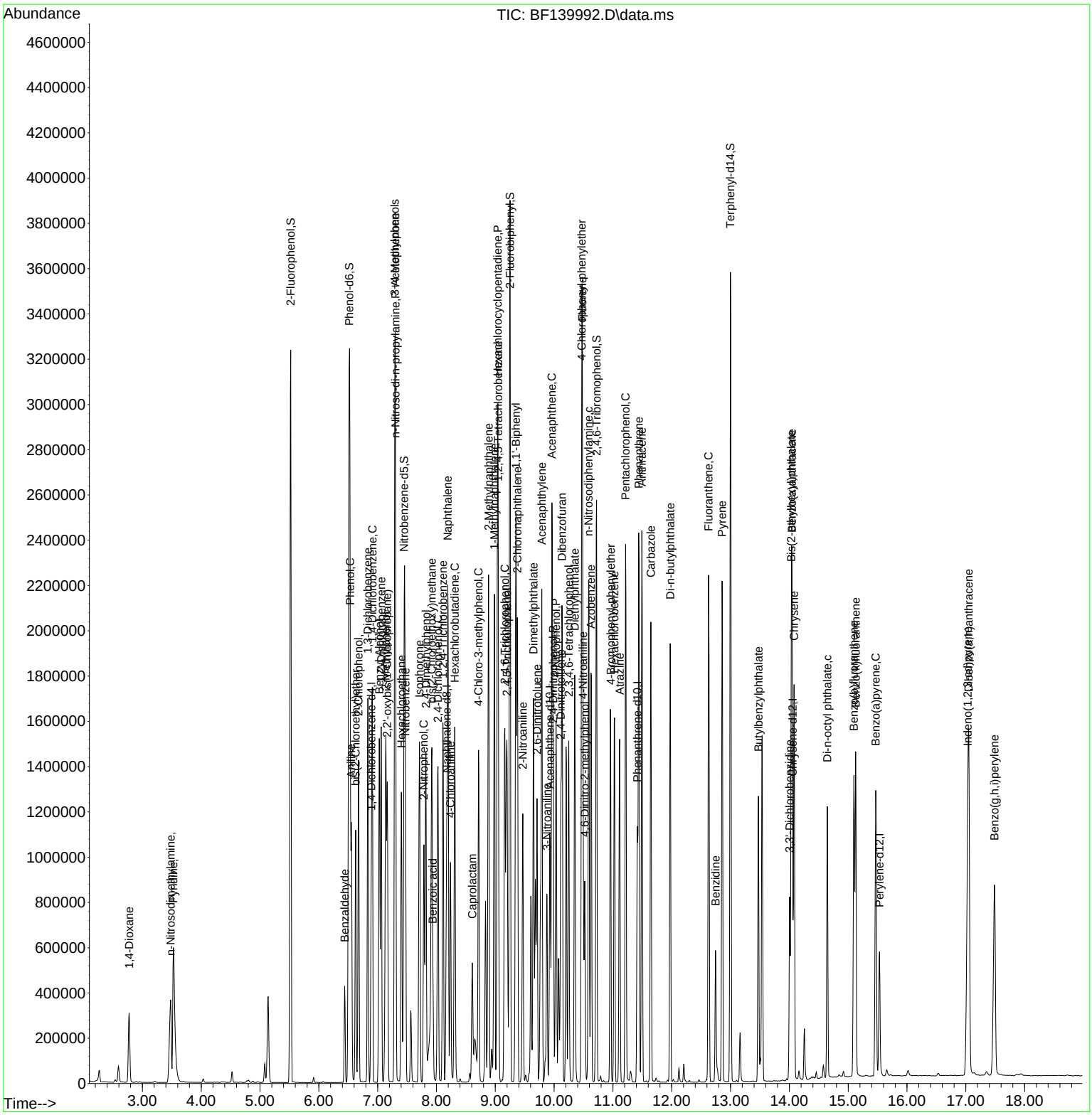
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	315968	47.437	ng		99
46) 1,1'-Biphenyl	9.351	154	1081469	45.961	ng		100
47) 2-Chloronaphthalene	9.375	162	865022	45.644	ng		99
48) 2-Nitroaniline	9.469	65	293375	50.615	ng		92
49) Acenaphthylene	9.792	152	1341986	48.981	ng		100
50) Dimethylphthalate	9.651	163	1002087	47.597	ng		100
51) 2,6-Dinitrotoluene	9.710	165	219806	48.219	ng		98
52) Acenaphthene	9.963	154	929324	52.434	ng		99
53) 3-Nitroaniline	9.880	138	180179	38.328	ng		95
54) 2,4-Dinitrophenol	9.986	184	253310	129.360	ng	#	1
55) Dibenzofuran	10.133	168	1173942	46.165	ng		99
56) 4-Nitrophenol	10.033	139	364335	100.737	ng		99
57) 2,4-Dinitrotoluene	10.116	165	299344	53.399	ng		95
58) Fluorene	10.480	166	887613	45.828	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	264175	50.592	ng		97
60) Diethylphthalate	10.351	149	948009	45.861	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	456284	46.650	ng		98
62) 4-Nitroaniline	10.492	138	218664	49.250	ng		97
63) Azobenzene	10.627	77	989662	45.159	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	166902	69.123	ng		91
66) n-Nitrosodiphenylamine	10.586	169	819107	46.233	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	296668	48.648	ng		94
68) Hexachlorobenzene	11.027	284	328315	47.870	ng		96
69) Atrazine	11.116	200	266196	55.466	ng		99
70) Pentachlorophenol	11.216	266	403359	96.904	ng		98
71) Phenanthrene	11.439	178	1310493	46.868	ng		100
72) Anthracene	11.492	178	1322483	48.475	ng		100
73) Carbazole	11.645	167	1132071	44.618	ng		99
74) Di-n-butylphthalate	11.974	149	1350031	46.055	ng		100
75) Fluoranthene	12.627	202	1261587	44.631	ng		99
77) Benzidine	12.745	184	334255	69.588	ng		99
78) Pyrene	12.857	202	1259310	49.250	ng		100
80) Butylbenzylphthalate	13.474	149	394925	51.518	ng		98
81) Benzo(a)anthracene	14.045	228	918683	48.312	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	245591	44.296	ng		99
83) Chrysene	14.080	228	844559	48.440	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	450798	52.414	ng		99
85) Di-n-octyl phthalate	14.645	149	771205	49.299	ng		96
87) Indeno(1,2,3-cd)pyrene	17.033	276	1098295	54.221	ng		98
88) Benzo(b)fluoranthene	15.098	252	921966	48.069	ng		99
89) Benzo(k)fluoranthene	15.127	252	724415	43.795	ng		99
90) Benzo(a)pyrene	15.468	252	803529	50.915	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	903618	53.475	ng		99
92) Benzo(g,h,i)perylene	17.486	276	855224	50.669	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139992.D
Acq On : 24 Oct 2024 10:52
Operator : RC/JU
Sample : PB164312BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BS

Quant Time: Oct 24 11:20:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140004.D
Acq On : 24 Oct 2024 16:48
Operator : RC/JU
Sample : P4467-01MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Oct 24 17:21:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	151264	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	576250	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	315137	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	529411	20.000	ng	0.00
76) Chrysene-d12	14.051	240	267551	20.000	ng	0.00
86) Perylene-d12	15.533	264	360724	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	805687	83.384	ng	0.01
7) Phenol-d6	6.510	99	1021804	81.650	ng	0.00
23) Nitrobenzene-d5	7.451	82	642796	61.824	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	283105	96.043	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1123670	58.929	ng	0.00
79) Terphenyl-d14	12.998	244	915305	55.745	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.740	88	171832	38.142	ng	93
3) Pyridine	3.499	79	438761	39.292	ng	95
4) n-Nitrosodimethylamine	3.452	42	235636	39.275	ng	97
6) Aniline	6.551	93	456018	39.099	ng	98
8) 2-Chlorophenol	6.675	128	443860	44.935	ng	96
9) Benzaldehyde	6.440	77	92752	13.175	ng	95
10) Phenol	6.528	94	561724m	43.539	ng	
11) bis(2-Chloroethyl)ether	6.622	93	430545	43.175	ng	99
12) 1,3-Dichlorobenzene	6.834	146	477261	42.090	ng	98
13) 1,4-Dichlorobenzene	6.910	146	489383	43.199	ng	98
14) 1,2-Dichlorobenzene	7.063	146	462436	43.738	ng	98
15) Benzyl Alcohol	7.028	79	405333	44.155	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	701721	41.269	ng	97
17) 2-Methylphenol	7.134	107	365135	43.350	ng	99
18) Hexachloroethane	7.404	117	173112	42.852	ng	96
19) n-Nitroso-di-n-propyla...	7.298	70	319244	42.061	ng	97
20) 3+4-Methylphenols	7.287	107	450776	41.841	ng	95
22) Acetophenone	7.298	105	605629	42.909	ng	98
24) Nitrobenzene	7.469	77	481672	42.254	ng	99
25) Isophorone	7.710	82	867683	43.969	ng	99
26) 2-Nitrophenol	7.787	139	227680	52.943	ng	97
27) 2,4-Dimethylphenol	7.822	122	371367	51.788	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	517766	43.306	ng	99
29) 2,4-Dichlorophenol	8.028	162	369829	45.279	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	382660	42.340	ng	99
31) Naphthalene	8.192	128	1284074	43.206	ng	100
32) Benzoic acid	7.928	122	261579	41.824	ng	98
33) 4-Chloroaniline	8.239	127	160062	15.795	ng	97
34) Hexachlorobutadiene	8.310	225	250591	44.130	ng	99
35) Caprolactam	8.610	113	116159m	44.727	ng	
36) 4-Chloro-3-methylphenol	8.716	107	394038	43.569	ng	97
37) 2-Methylnaphthalene	8.887	142	802736	44.103	ng	100
38) 1-Methylnaphthalene	8.987	142	752339	42.130	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	380696	44.778	ng	99
41) Hexachlorocyclopentadiene	9.039	237	471357	159.336	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	282232	46.888	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140004.D
Acq On : 24 Oct 2024 16:48
Operator : RC/JU
Sample : P4467-01MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Oct 24 17:21:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

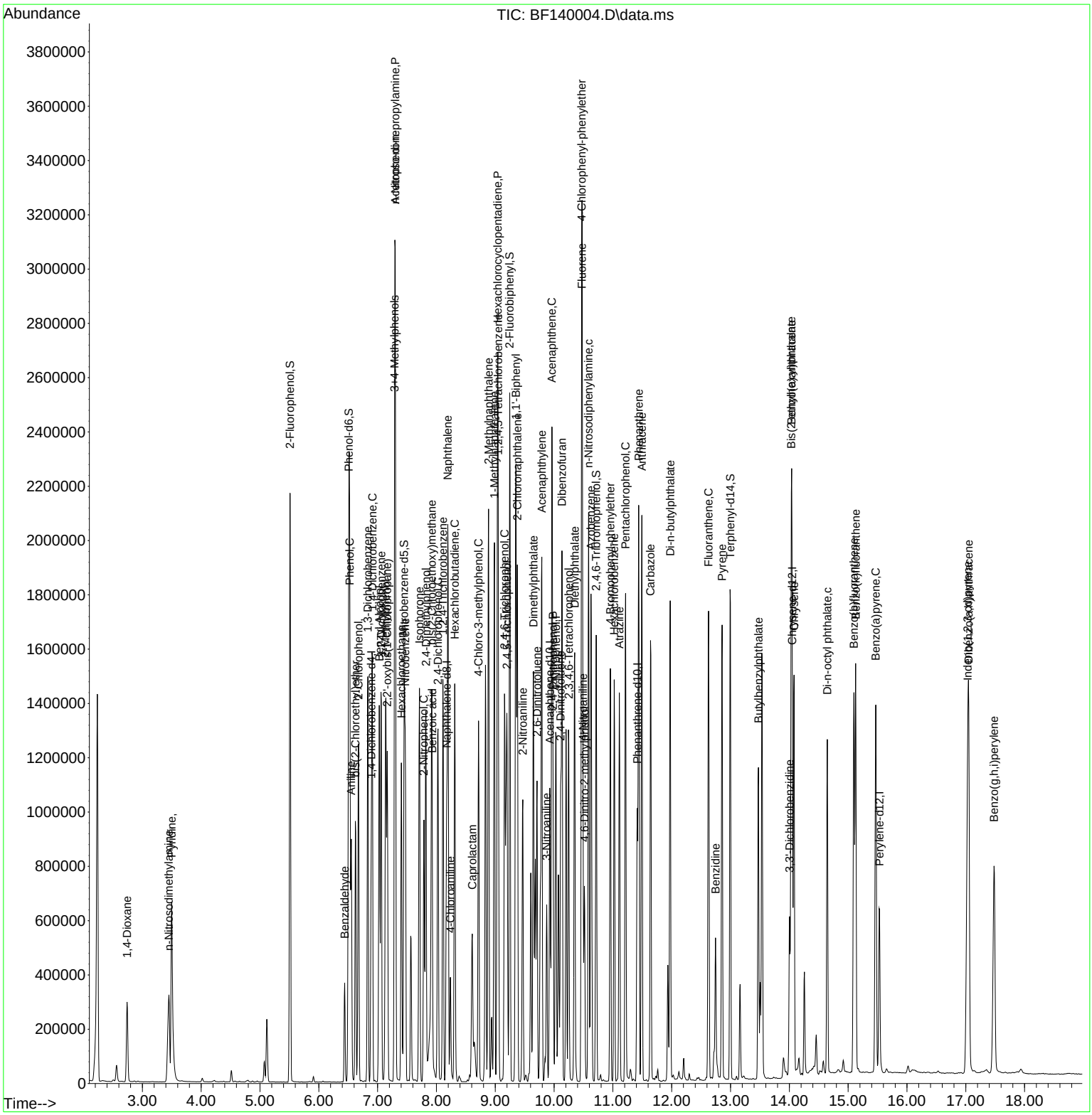
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	280392	45.150	ng		99
46) 1,1'-Biphenyl	9.351	154	973591	44.379	ng		99
47) 2-Chloronaphthalene	9.375	162	769688	43.561	ng		99
48) 2-Nitroaniline	9.469	65	257832	47.711	ng		90
49) Acenaphthylene	9.792	152	1189746	46.575	ng		100
50) Dimethylphthalate	9.651	163	897645	45.730	ng		100
51) 2,6-Dinitrotoluene	9.710	165	196954	46.341	ng		94
52) Acenaphthene	9.963	154	807584	48.872	ng		99
53) 3-Nitroaniline	9.875	138	130524	29.780	ng		98
54) 2,4-Dinitrophenol	9.981	184	182723	101.561	ng	#	1
55) Dibenzofuran	10.134	168	1054724	44.486	ng		98
56) 4-Nitrophenol	10.034	139	307515	91.196	ng		96
57) 2,4-Dinitrotoluene	10.110	165	264413	50.591	ng		96
58) Fluorene	10.475	166	789620	43.727	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	227526	46.735	ng		96
60) Diethylphthalate	10.351	149	863653	44.811	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	404311	44.335	ng		98
62) 4-Nitroaniline	10.492	138	187027	45.181	ng		96
63) Azobenzene	10.628	77	960246	46.996	ng		95
65) 4,6-Dinitro-2-methylph...	10.516	198	130518	60.440	ng		95
66) n-Nitrosodiphenylamine	10.586	169	738410	46.602	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	259160	47.518	ng		98
68) Hexachlorobenzene	11.022	284	284470	46.377	ng		98
69) Atrazine	11.110	200	237987	55.446	ng		100
70) Pentachlorophenol	11.216	266	306185	82.249	ng		99
71) Phenanthrene	11.439	178	1108145	44.313	ng		100
72) Anthracene	11.492	178	1130666	46.341	ng		100
73) Carbazole	11.639	167	939513	41.403	ng		99
74) Di-n-butylphthalate	11.975	149	1231382	46.970	ng		100
75) Fluoranthene	12.627	202	990260	39.171	ng		99
77) Benzidine	12.745	184	289331	65.765	ng		99
78) Pyrene	12.857	202	962093	41.081	ng		100
80) Butylbenzylphthalate	13.474	149	367843	52.390	ng		97
81) Benzo(a)anthracene	14.039	228	813331	46.698	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	179744	35.396	ng		98
83) Chrysene	14.080	228	708241	44.351	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	473241	60.075	ng	#	98
85) Di-n-octyl phthalate	14.645	149	805035	56.185	ng		96
87) Indeno(1,2,3-cd)pyrene	17.033	276	1056164	45.512	ng		98
88) Benzo(b)fluoranthene	15.098	252	879161	40.010	ng		99
89) Benzo(k)fluoranthene	15.127	252	865105	45.651	ng		99
90) Benzo(a)pyrene	15.468	252	868929	48.058	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	877416	45.323	ng		98
92) Benzo(g,h,i)perylene	17.480	276	759976	39.301	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140004.D
Acq On : 24 Oct 2024 16:48
Operator : RC/JU
Sample : P4467-01MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Oct 24 17:21:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140005.D
Acq On : 24 Oct 2024 17:17
Operator : RC/JU
Sample : P4467-01MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Oct 24 17:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	131947	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	501368	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	271082	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	450738	20.000	ng	0.00
76) Chrysene-d12	14.051	240	233244	20.000	ng	0.00
86) Perylene-d12	15.527	264	308426	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	799674	94.877	ng	0.01
7) Phenol-d6	6.510	99	1012285	92.732	ng	0.00
23) Nitrobenzene-d5	7.451	82	638656	70.600	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	279554	110.251	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1119419	68.247	ng	0.00
79) Terphenyl-d14	12.992	244	929562	64.941	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.740	88	170681	43.433	ng	95
3) Pyridine	3.499	79	437331	44.897	ng	95
4) n-Nitrosodimethylamine	3.452	42	231921	44.315	ng	95
6) Aniline	6.551	93	449056	44.139	ng	98
8) 2-Chlorophenol	6.675	128	437510	50.776	ng	96
9) Benzaldehyde	6.440	77	94660	15.414	ng	98
10) Phenol	6.528	94	544689m	48.399	ng	
11) bis(2-Chloroethyl)ether	6.622	93	426841	49.070	ng	99
12) 1,3-Dichlorobenzene	6.834	146	474358	47.959	ng	98
13) 1,4-Dichlorobenzene	6.910	146	484574	49.037	ng	98
14) 1,2-Dichlorobenzene	7.057	146	465650	50.490	ng	98
15) Benzyl Alcohol	7.028	79	401147	50.096	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	694463	46.821	ng	97
17) 2-Methylphenol	7.134	107	363394	49.460	ng	100
18) Hexachloroethane	7.404	117	171917	48.787	ng	95
19) n-Nitroso-di-n-propyla...	7.298	70	316676	47.831	ng	98
20) 3+4-Methylphenols	7.287	107	451943	48.091	ng	95
22) Acetophenone	7.298	105	598941	48.773	ng	97
24) Nitrobenzene	7.469	77	476377	48.031	ng	98
25) Isophorone	7.710	82	872334	50.807	ng	99
26) 2-Nitrophenol	7.787	139	229681	61.385	ng	95
27) 2,4-Dimethylphenol	7.822	122	361571	57.953	ng	100
28) bis(2-Chloroethoxy)met...	7.916	93	518995	49.892	ng	99
29) 2,4-Dichlorophenol	8.022	162	361564	50.879	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	385361	49.007	ng	99
31) Naphthalene	8.193	128	1262514	48.826	ng	99
32) Benzoic acid	7.928	122	258670	47.536	ng	96
33) 4-Chloroaniline	8.234	127	155580	17.645	ng	100
34) Hexachlorobutadiene	8.310	225	248809	50.360	ng	99
35) Caprolactam	8.610	113	113194m	50.095	ng	
36) 4-Chloro-3-methylphenol	8.716	107	397485	50.514	ng	99
37) 2-Methylnaphthalene	8.887	142	796790	50.314	ng	100
38) 1-Methylnaphthalene	8.987	142	747926	48.138	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	382027	52.237	ng	99
41) Hexachlorocyclopentadiene	9.040	237	462690	181.825	ng	98
43) 2,4,6-Trichlorophenol	9.157	196	280594	54.192	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140005.D
Acq On : 24 Oct 2024 17:17
Operator : RC/JU
Sample : P4467-01MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Oct 24 17:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

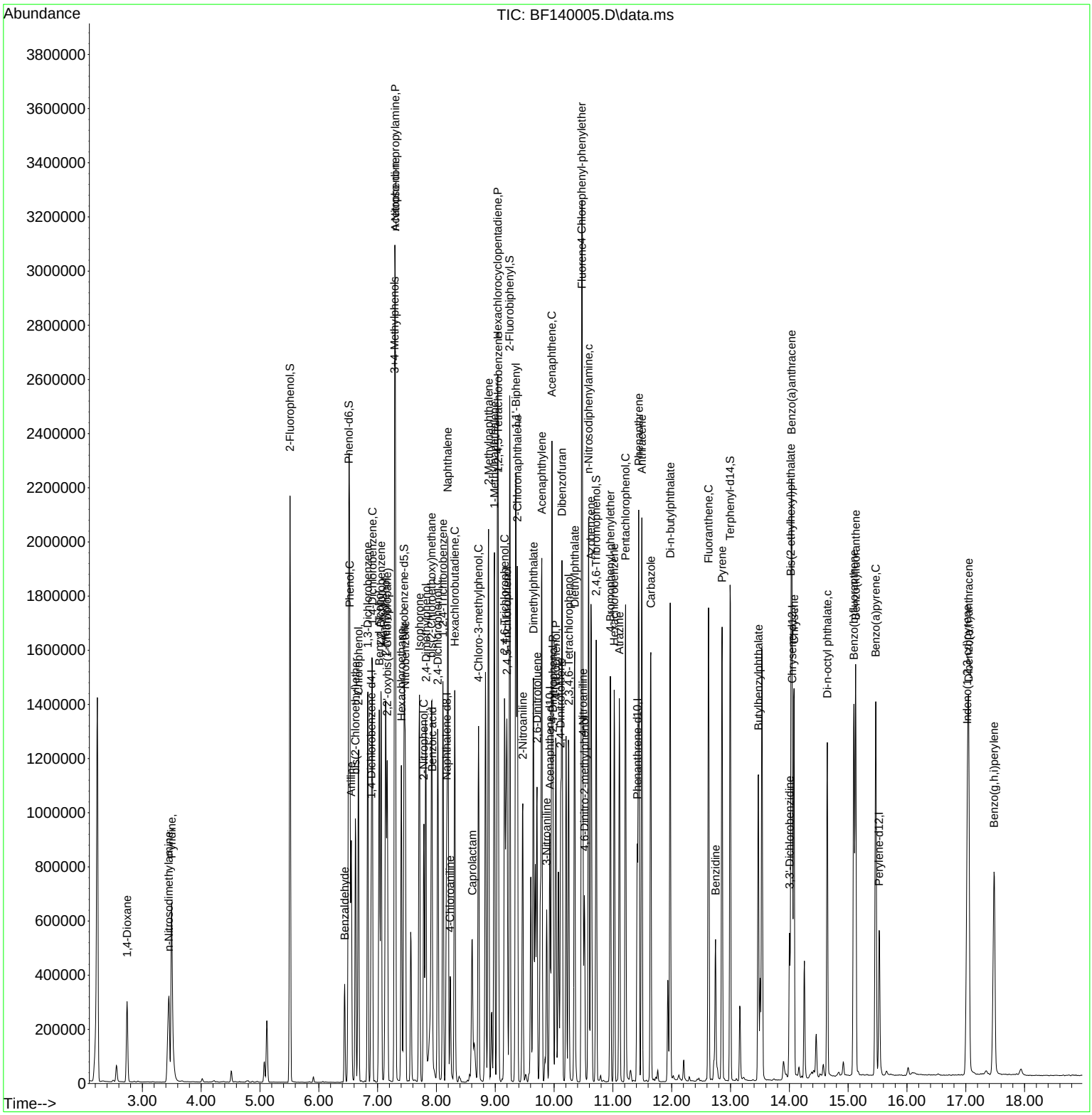
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	276809	51.817	ng		99
46) 1,1'-Biphenyl	9.351	154	961569	50.954	ng		99
47) 2-Chloronaphthalene	9.375	162	765331	50.353	ng		99
48) 2-Nitroaniline	9.469	65	256691	55.219	ng		91
49) Acenaphthylene	9.792	152	1191031	54.203	ng		99
50) Dimethylphthalate	9.651	163	891137	52.777	ng		100
51) 2,6-Dinitrotoluene	9.710	165	194168	53.110	ng		94
52) Acenaphthene	9.963	154	791591	55.689	ng		99
53) 3-Nitroaniline	9.875	138	128233	34.012	ng		95
54) 2,4-Dinitrophenol	9.981	184	170043	109.339	ng	#	1
55) Dibenzofuran	10.134	168	1038826	50.937	ng		99
56) 4-Nitrophenol	10.034	139	300808	103.705	ng		97
57) 2,4-Dinitrotoluene	10.110	165	256418	57.034	ng		98
58) Fluorene	10.475	166	786374	50.624	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	223414	53.349	ng		97
60) Diethylphthalate	10.351	149	856016	51.633	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	405285	51.665	ng		97
62) 4-Nitroaniline	10.492	138	186131	52.272	ng		95
63) Azobenzene	10.628	77	949473	54.021	ng		96
65) 4,6-Dinitro-2-methylph...	10.516	198	123475	67.159	ng		94
66) n-Nitrosodiphenylamine	10.586	169	725635	53.789	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	258439	55.657	ng		97
68) Hexachlorobenzene	11.022	284	281314	53.868	ng		97
69) Atrazine	11.110	200	239754	65.607	ng		99
70) Pentachlorophenol	11.216	266	299684	94.554	ng		99
71) Phenanthrene	11.439	178	1105042	51.902	ng		100
72) Anthracene	11.492	178	1124220	54.119	ng		99
73) Carbazole	11.645	167	927677	48.017	ng		99
74) Di-n-butylphthalate	11.975	149	1227353	54.987	ng		100
75) Fluoranthene	12.628	202	986151	45.817	ng		99
77) Benzidine	12.745	184	285122	74.341	ng		99
78) Pyrene	12.857	202	962523	47.144	ng		100
80) Butylbenzylphthalate	13.475	149	372387	60.838	ng		97
81) Benzo(a)anthracene	14.039	228	810278	53.366	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	165178	37.312	ng		100
83) Chrysene	14.080	228	705708	50.692	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	475991	69.312	ng		100
85) Di-n-octyl phthalate	14.645	149	805210	64.464	ng		96
87) Indeno(1,2,3-cd)pyrene	17.027	276	1044523	52.642	ng		98
88) Benzo(b)fluoranthene	15.098	252	880827	46.882	ng		100
89) Benzo(k)fluoranthene	15.127	252	864790	53.372	ng		99
90) Benzo(a)pyrene	15.468	252	864313	55.909	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	866590	52.354	ng		98
92) Benzo(g,h,i)perylene	17.480	276	745658	45.099	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140005.D
Acq On : 24 Oct 2024 17:17
Operator : RC/JU
Sample : P4467-01MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Oct 24 17:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102424	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139990.D	Phenol	yogesh	10/25/2024 6:26:47 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
PB164312BS	BF139992.D	Caprolactam	yogesh	10/25/2024 6:26:50 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
PB164312BS	BF139992.D	Phenol	yogesh	10/25/2024 6:26:50 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
SSTDCCC040	BF140001.D	Phenol	yogesh	10/25/2024 6:27:19 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MS	BF140004.D	Caprolactam	yogesh	10/25/2024 6:27:24 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MS	BF140004.D	Phenol	yogesh	10/25/2024 6:27:24 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MSD	BF140005.D	Caprolactam	yogesh	10/25/2024 6:27:28 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MSD	BF140005.D	Phenol	yogesh	10/25/2024 6:27:28 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102624	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140050.D	Phenol	yogesh	10/29/2024 1:34:09 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139989.D	24 Oct 2024 09:26	RC/JU	Ok
2	SSTDCCC040	BF139990.D	24 Oct 2024 09:55	RC/JU	Ok,M
3	PB164312BL	BF139991.D	24 Oct 2024 10:23	RC/JU	Ok
4	PB164312BS	BF139992.D	24 Oct 2024 10:52	RC/JU	Ok,M
5	PB164315BL	BF139993.D	24 Oct 2024 11:20	RC/JU	Ok
6	PB164315BS	BF139994.D	24 Oct 2024 11:49	RC/JU	Ok,M
7	PB164301TB	BF139995.D	24 Oct 2024 12:17	RC/JU	Ok
8	PB163997BS	BF139996.D	24 Oct 2024 12:53	RC/JU	Ok,M
9	PB164208BS	BF139997.D	24 Oct 2024 13:21	RC/JU	Ok,M
10	PB164338BL	BF139998.D	24 Oct 2024 13:50	RC/JU	Ok
11	PB164338BS	BF139999.D	24 Oct 2024 14:19	RC/JU	Ok,M
12	DFTPP	BF140000.D	24 Oct 2024 14:47	RC/JU	Ok
13	SSTDCCC040	BF140001.D	24 Oct 2024 15:16	RC/JU	Ok,M
14	PB164261TB	BF140002.D	24 Oct 2024 15:44	RC/JU	Ok
15	P4489-01DL	BF140003.D	24 Oct 2024 16:19	RC/JU	Ok
16	P4467-01MS	BF140004.D	24 Oct 2024 16:48	RC/JU	Ok,M
17	P4467-01MSD	BF140005.D	24 Oct 2024 17:17	RC/JU	Ok,M
18	P4460-03MS	BF140006.D	24 Oct 2024 17:45	RC/JU	Ok,M
19	P4460-03MSD	BF140007.D	24 Oct 2024 18:14	RC/JU	Ok,M
20	P4467-04	BF140008.D	24 Oct 2024 18:42	RC/JU	Ok
21	P4472-08	BF140009.D	24 Oct 2024 19:11	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4460-03	BF140010.D	24 Oct 2024 19:39	RC/JU	ReRun
23	P4471-01	BF140011.D	24 Oct 2024 20:08	RC/JU	Ok
24	P4471-02	BF140012.D	24 Oct 2024 20:36	RC/JU	ReRun
25	P4467-01	BF140013.D	24 Oct 2024 21:04	RC/JU	ReRun
26	P4460-04	BF140014.D	24 Oct 2024 21:33	RC/JU	ReRun
27	P4468-01	BF140015.D	24 Oct 2024 22:01	RC/JU	ReRun
28	P4485-01	BF140016.D	24 Oct 2024 22:29	RC/JU	ReRun
29	P4487-01	BF140017.D	24 Oct 2024 22:58	RC/JU	ReRun
30	P4487-05	BF140018.D	24 Oct 2024 23:26	RC/JU	Ok
31	P4487-05MS	BF140019.D	24 Oct 2024 23:54	RC/JU	Ok,M
32	P4487-05MSD	BF140020.D	25 Oct 2024 00:22	RC/JU	Ok,M
33	P4485-02	BF140021.D	25 Oct 2024 00:50	RC/JU	ReRun
34	P4512-03	BF140022.D	25 Oct 2024 01:19	RC/JU	ReRun
35	P4470-01	BF140023.D	25 Oct 2024 01:46	RC/JU	Ok
36	P4472-05	BF140024.D	25 Oct 2024 02:14	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140049.D	26 Oct 2024 10:10	RC/JU	Ok
2	SSTDCCC040	BF140050.D	26 Oct 2024 10:38	RC/JU	Ok,M
3	PB164401BL	BF140051.D	26 Oct 2024 11:06	RC/JU	Ok
4	PB164401BS	BF140052.D	26 Oct 2024 11:34	RC/JU	Ok,M
5	P4508-09	BF140053.D	26 Oct 2024 12:06	RC/JU	Ok
6	P4508-09MS	BF140054.D	26 Oct 2024 12:34	RC/JU	Ok,M
7	P4508-09MSD	BF140055.D	26 Oct 2024 13:02	RC/JU	Ok,M
8	P4547-05	BF140056.D	26 Oct 2024 13:30	RC/JU	Ok
9	P4547-05MS	BF140057.D	26 Oct 2024 13:58	RC/JU	Ok,M
10	P4547-05MSD	BF140058.D	26 Oct 2024 14:27	RC/JU	Ok,M
11	P4508-05	BF140059.D	26 Oct 2024 14:55	RC/JU	Ok
12	P4517-07	BF140060.D	26 Oct 2024 15:23	RC/JU	Ok
13	P4487-08	BF140061.D	26 Oct 2024 15:51	RC/JU	Ok
14	P4460-04	BF140062.D	26 Oct 2024 16:20	RC/JU	Ok
15	P4460-03	BF140063.D	26 Oct 2024 16:48	RC/JU	Ok
16	P4471-02	BF140064.D	26 Oct 2024 17:16	RC/JU	Ok
17	P4508-12	BF140065.D	26 Oct 2024 17:44	RC/JU	Ok
18	P4508-04	BF140066.D	26 Oct 2024 18:12	RC/JU	Ok
19	P4508-08	BF140067.D	26 Oct 2024 18:40	RC/JU	Ok
20	P4460-02	BF140068.D	26 Oct 2024 19:09	RC/JU	Ok,M
21	P4547-01	BF140069.D	26 Oct 2024 19:37	RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4508-01	BF140070.D	26 Oct 2024 20:05	RC/JU	Ok
23	P4545-01	BF140071.D	26 Oct 2024 20:33	RC/JU	Ok,M
24	P4509-01	BF140072.D	26 Oct 2024 21:01	RC/JU	Ok,M
25	P4531-01	BF140073.D	26 Oct 2024 21:29	RC/JU	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139989.D	24 Oct 2024 09:26		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139990.D	24 Oct 2024 09:55		RC/JU	Ok,M
3	PB164312BL	PB164312BL	BF139991.D	24 Oct 2024 10:23		RC/JU	Ok
4	PB164312BS	PB164312BS	BF139992.D	24 Oct 2024 10:52		RC/JU	Ok,M
5	PB164315BL	PB164315BL	BF139993.D	24 Oct 2024 11:20		RC/JU	Ok
6	PB164315BS	PB164315BS	BF139994.D	24 Oct 2024 11:49		RC/JU	Ok,M
7	PB164301TB	PB164301TB	BF139995.D	24 Oct 2024 12:17		RC/JU	Ok
8	PB163997BS	PB163997BS	BF139996.D	24 Oct 2024 12:53		RC/JU	Ok,M
9	PB164208BS	PB164208BS	BF139997.D	24 Oct 2024 13:21		RC/JU	Ok,M
10	PB164338BL	PB164338BL	BF139998.D	24 Oct 2024 13:50		RC/JU	Ok
11	PB164338BS	PB164338BS	BF139999.D	24 Oct 2024 14:19		RC/JU	Ok,M
12	DFTPP	DFTPP	BF140000.D	24 Oct 2024 14:47		RC/JU	Ok
13	SSTDCCC040	SSTDCCC040	BF140001.D	24 Oct 2024 15:16		RC/JU	Ok,M
14	PB164261TB	PB164261TB	BF140002.D	24 Oct 2024 15:44		RC/JU	Ok
15	P4489-01DL	RT-2675DL	BF140003.D	24 Oct 2024 16:19	Internal Standard Fail	RC/JU	Ok
16	P4467-01MS	TP-1MS	BF140004.D	24 Oct 2024 16:48		RC/JU	Ok,M
17	P4467-01MSD	TP-1MSD	BF140005.D	24 Oct 2024 17:17		RC/JU	Ok,M
18	P4460-03MS	WB-303-BOTMS	BF140006.D	24 Oct 2024 17:45		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4460-03MSD	WB-303-BOTMSD	BF140007.D	24 Oct 2024 18:14		RC/JU	Ok,M
20	P4467-04	TP-1	BF140008.D	24 Oct 2024 18:42		RC/JU	Ok
21	P4472-08	BP-F-6	BF140009.D	24 Oct 2024 19:11		RC/JU	Ok
22	P4460-03	WB-303-BOT	BF140010.D	24 Oct 2024 19:39	Internal Standrad Fail	RC/JU	ReRun
23	P4471-01	B-180-SB01	BF140011.D	24 Oct 2024 20:08		RC/JU	Ok
24	P4471-02	B-180-SB02	BF140012.D	24 Oct 2024 20:36	Internal Standrad Fail	RC/JU	ReRun
25	P4467-01	TP-1	BF140013.D	24 Oct 2024 21:04	Internal Standrad Fail	RC/JU	ReRun
26	P4460-04	WB-303-BOT	BF140014.D	24 Oct 2024 21:33	Internal Standrad Fail	RC/JU	ReRun
27	P4468-01	ETGI-331	BF140015.D	24 Oct 2024 22:01	Internal Standrad Fail	RC/JU	ReRun
28	P4485-01	D20241001-01-04	BF140016.D	24 Oct 2024 22:29	Internal Standrad Fail	RC/JU	ReRun
29	P4487-01	BP-B5	BF140017.D	24 Oct 2024 22:58	Internal Standrad Fail	RC/JU	ReRun
30	P4487-05	BP-F27	BF140018.D	24 Oct 2024 23:26	Internal Standrad Fail	RC/JU	Ok
31	P4487-05MS	BP-F27MS	BF140019.D	24 Oct 2024 23:54	Internal Standrad Fail	RC/JU	Ok,M
32	P4487-05MSD	BP-F27MSD	BF140020.D	25 Oct 2024 00:22	Internal Standrad Fail	RC/JU	Ok,M
33	P4485-02	D20241001-01-04	BF140021.D	25 Oct 2024 00:50	Internal Standrad Fail	RC/JU	ReRun
34	P4512-03	VNJ-212	BF140022.D	25 Oct 2024 01:19	Internal Standrad Fail	RC/JU	ReRun
35	P4470-01	CL-01-102124	BF140023.D	25 Oct 2024 01:46		RC/JU	Ok
36	P4472-05	BP-F-6	BF140024.D	25 Oct 2024 02:14	Internal Standrad Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140049.D	26 Oct 2024 10:10		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140050.D	26 Oct 2024 10:38		RC/JU	Ok,M
3	PB164401BL	PB164401BL	BF140051.D	26 Oct 2024 11:06		RC/JU	Ok
4	PB164401BS	PB164401BS	BF140052.D	26 Oct 2024 11:34		RC/JU	Ok,M
5	P4508-09	BP-F22	BF140053.D	26 Oct 2024 12:06		RC/JU	Ok
6	P4508-09MS	BP-F22MS	BF140054.D	26 Oct 2024 12:34		RC/JU	Ok,M
7	P4508-09MSD	BP-F22MSD	BF140055.D	26 Oct 2024 13:02		RC/JU	Ok,M
8	P4547-05	BP-F-20	BF140056.D	26 Oct 2024 13:30		RC/JU	Ok
9	P4547-05MS	BP-F-20MS	BF140057.D	26 Oct 2024 13:58		RC/JU	Ok,M
10	P4547-05MSD	BP-F-20MSD	BF140058.D	26 Oct 2024 14:27		RC/JU	Ok,M
11	P4508-05	BP-F23	BF140059.D	26 Oct 2024 14:55		RC/JU	Ok
12	P4517-07	FOREST-ST-CO	BF140060.D	26 Oct 2024 15:23		RC/JU	Ok
13	P4487-08	BP-B27	BF140061.D	26 Oct 2024 15:51		RC/JU	Ok
14	P4460-04	WB-303-BOT	BF140062.D	26 Oct 2024 16:20		RC/JU	Ok
15	P4460-03	WB-303-BOT	BF140063.D	26 Oct 2024 16:48		RC/JU	Ok
16	P4471-02	B-180-SB02	BF140064.D	26 Oct 2024 17:16		RC/JU	Ok
17	P4508-12	BP-F22	BF140065.D	26 Oct 2024 17:44		RC/JU	Ok
18	P4508-04	TP-3	BF140066.D	26 Oct 2024 18:12		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4508-08	BP-F23	BF140067.D	26 Oct 2024 18:40		RC/JU	Ok
20	P4460-02	WB-303-TOP	BF140068.D	26 Oct 2024 19:09		RC/JU	Ok,M
21	P4547-01	BP-F-21	BF140069.D	26 Oct 2024 19:37		RC/JU	Ok
22	P4508-01	TP-3	BF140070.D	26 Oct 2024 20:05		RC/JU	Ok
23	P4545-01	VNJ-215	BF140071.D	26 Oct 2024 20:33		RC/JU	Ok,M
24	P4509-01	AU-06-10232024	BF140072.D	26 Oct 2024 21:01		RC/JU	Ok,M
25	P4531-01	OR-03-102424	BF140073.D	26 Oct 2024 21:29		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164312

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/22/2024
Matrix :	Solid			**Extraction Start Time :**	10:44
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/22/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:55
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**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	SP6630
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	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3817
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	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/22/24	RP (Ext. Lab)	AC/SVOC
14:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164312

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/22/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164312BL	SBLK312	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U5-1
PB164312BS	SLCS312	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
P4467-01	TP-1	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
P4467-01MS	TP-1MS	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		4
P4467-01MSD	TP-1MSD	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		5
P4468-01	ETGI-331	SVOC-PAH	50.09	N/A	ritesh	Evelyn	1		Concrete	6
P4468-03	ETGI-329	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U6-1
P4468-05	ETGI-345	SVOC-TCL BNA -20	50.10	N/A	ritesh	Evelyn	1	E		2
P4470-01	CL-01-102124	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		3
P4471-01	B-180-SB01	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
P4471-02	B-180-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
P4472-01	BP-F-28	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		6
P4472-05	BP-F-6	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		U1-1
P4473-01	TS-1	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	C		2
P4474-01	TS-2	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	B		3

* **Extracts relinguished on the same date as received.**

10/24/24

P4471

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4470 **WorkList ID :** 184651 **Department :** Extraction **Date :** 10-22-2024 08:24:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4467-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K41	10/21/2024	8270E
P4468-01	ETGI-331	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4468-03	ETGI-329	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4468-05	ETGI-345	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4470-01	CL-01-102124	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4471-01	B-180-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K51	10/21/2024	8270E
P4471-02	B-180-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	J61	10/19/2024	8270E
P4472-01	BP-F-28	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	J61	10/20/2024	8270E
P4472-05	BP-F-6	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4473-01	TS-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4474-01	TS-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	YANN01	K61	10/18/2024	8270E
P4474-01	TS-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	YANN01	K61	10/18/2024	8270E

355 of 742

Date/Time 10/22/24 10:40

Raw Sample Received by: RJ (Colby Lab)

Raw Sample Relinquished by:

Date/Time 10/22/24 1105

Raw Sample Received by:

Raw Sample Relinquished by: RJ (Enf) 1632

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LAB CHRONICLE

OrderID:	P4471	**OrderDate:**	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	**B-180-SB01**	**SOIL**			**10/19/24**			**10/21/24**
			SVOC-TCL BNA -20	8270E		10/22/24	10/24/24	
P4471-02	**B-180-SB02**	**SOIL**			**10/20/24**			**10/21/24**
			SVOC-TCL BNA -20	8270E		10/22/24	10/26/24	

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Hit Summary Sheet
SW-846

SDG No.: P4471 **Order ID:** P4471

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

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:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	82.8 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
PP068132.D	1	10/22/24 10:10	10/22/24 15:47	PB164310

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.10	U	4.10	20.5	ug/kg
11104-28-2	Aroclor-1221	7.70	U	7.70	20.5	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	20.5	ug/kg
53469-21-9	Aroclor-1242	4.10	U	4.10	20.5	ug/kg
12672-29-6	Aroclor-1248	9.50	U	9.50	20.5	ug/kg
11097-69-1	Aroclor-1254	3.30	U	3.30	20.5	ug/kg
37324-23-5	Aroclor-1262	5.50	U	5.50	20.5	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	20.5	ug/kg
11096-82-5	Aroclor-1260	3.50	U	3.50	20.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		30 (32) - 150 (144)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.3		30 (32) - 150 (175)	82%	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:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	49.2 Decanted:
Sample Wt/Vol:	30.04 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
PP068156.D	1	10/22/24 10:10	10/23/24 12:11	PB164310

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	6.90	U	6.90	34.5	ug/kg
11104-28-2	Aroclor-1221	13.0	U	13.0	34.5	ug/kg
11141-16-5	Aroclor-1232	6.90	U	6.90	34.5	ug/kg
53469-21-9	Aroclor-1242	6.90	U	6.90	34.5	ug/kg
12672-29-6	Aroclor-1248	16.0	U	16.0	34.5	ug/kg
11097-69-1	Aroclor-1254	5.50	U	5.50	34.5	ug/kg
37324-23-5	Aroclor-1262	9.30	U	9.30	34.5	ug/kg
11100-14-4	Aroclor-1268	7.00	U	7.00	34.5	ug/kg
11096-82-5	Aroclor-1260	5.90	U	5.90	34.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	11.3		30 (32) - 150 (144)	56%	SPK: 20
2051-24-3	Decachlorobiphenyl	7.51		30 (32) - 150 (175)	38%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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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.: P4471

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-PP067586.D	PIBLK-PP067586.D	Tetrachloro-m-xylene	1	20	21.1	105		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.6	118		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.5	117		70 (60)	130 (140)
I.BLK-PP068124.D	PIBLK-PP068124.D	Tetrachloro-m-xylene	1	20	21.1	106		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.1	91		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.3	102		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.8	94		70 (60)	130 (140)
PB164310BL	PB164310BL	Tetrachloro-m-xylene	1	20	20.1	101		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	17.2	86		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	19.0	95		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.6	93		30 (32)	150 (175)
PB164310BS	PB164310BS	Tetrachloro-m-xylene	1	20	20.0	100		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	17.5	88		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.7	94		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.5	93		30 (32)	150 (175)
P4471-01	B-180-SB01	Tetrachloro-m-xylene	1	20	20.0	100		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.3	82		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.3	91		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	14.6	73		30 (32)	150 (175)
I.BLK-PP068139.D	PIBLK-PP068139.D	Tetrachloro-m-xylene	1	20	20.0	100		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	20.4	102		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.2	96		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	19.5	98		70 (60)	130 (140)
P4472-05MS	BP-F-6MS	Tetrachloro-m-xylene	1	20	21.0	105		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.1	100		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.3	91		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.6	93		30 (32)	150 (175)
P4472-05MSD	BP-F-6MSD	Tetrachloro-m-xylene	1	20	21.3	106		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	20.1	101		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.2	91		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	18.8	94		30 (32)	150 (175)
I.BLK-PP068149.D	PIBLK-PP068149.D	Tetrachloro-m-xylene	1	20	20.8	104		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	22.1	111		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.0	95		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.2	101		70 (60)	130 (140)
I.BLK-PP068155.D	PIBLK-PP068155.D	Tetrachloro-m-xylene	1	20	20.3	102		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	22.2	111		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.7	99		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.9	105		70 (60)	130 (140)
P4471-02	B-180-SB02	Tetrachloro-m-xylene	1	20	11.3	56		30 (32)	150 (144)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
P4471-02	B-180-SB02	Decachlorobiphenyl	1	20	7.13	36		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	10.9	54		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	7.51	38		30 (32)	150 (175)
I.BLK-PP068170.D	PIBLK-PP068170.D	Tetrachloro-m-xylene	1	20	20.8	104		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.9	110		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.5	98		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.9	104		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP068141.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:	**BP-F-6MS**											
P4472-05MS	AR1016	182.8	0	167	ug/kg	91				40 (55)	140 (146)	
	AR1260	182.8	0	149	ug/kg	82				40 (45)	140 (144)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP068142.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:	**BP-F-6MSD**											
P4472-05MSD	AR1016	182.7	0	169	ug/kg	93		2		40 (55)	140 (146)	30 (20)
	AR1260	182.7	0	147	ug/kg	80		2		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.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP068126.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164310BS	AR1016	166.6	134	ug/kg	80				40 (71)	140 (120)	
	AR1260	166.6	132	ug/kg	79				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164310BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab Sample ID: PB164310BL Lab File ID: PP068125.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/22/2024

Date Analyzed (1): 10/22/2024 Date Analyzed (2): 10/22/2024

Time Analyzed (1): 13:55 Time Analyzed (2): 13:55

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
PB164310BS	PB164310BS	PP068126.D	10/22/2024	10/22/2024
B-180-SB01	P4471-01	PP068132.D	10/22/2024	10/22/2024
BP-F-6MS	P4472-05MS	PP068141.D	10/22/2024	10/22/2024
BP-F-6MSD	P4472-05MSD	PP068142.D	10/22/2024	10/22/2024
B-180-SB02	P4471-02	PP068156.D	10/23/2024	10/23/2024

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164310BL	SDG No.:	P4471
Lab Sample ID:	PB164310BL	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
PP068125.D	1	10/22/24 10:10	10/22/24 13:55	PB164310

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	20.1		30 (32) - 150 (144)	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.6		30 (32) - 150 (175)	93%	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:	10/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/08/24
Client Sample ID:	PIBLK-PP067586.D	SDG No.:	P4471
Lab Sample ID:	I.BLK-PP067586.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
PP067586.D	1		10/08/24	pp100824

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	21.1		70 (60) - 130 (140)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.5		70 (60) - 130 (140)	117%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/22/24
Client Sample ID:	PIBLK-PP068124.D	SDG No.:	P4471
Lab Sample ID:	I.BLK-PP068124.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
PP068124.D	1		10/22/24	pp102224

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	20.3		70 (60) - 130 (140)	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.1		70 (60) - 130 (140)	91%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/22/24
Client Sample ID:	PIBLK-PP068139.D	SDG No.:	P4471
Lab Sample ID:	I.BLK-PP068139.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
PP068139.D	1		10/22/24	pp102224

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	19.2		70 (60) - 130 (140)	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		70 (60) - 130 (140)	98%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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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
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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:	10/22/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/22/24
Client Sample ID:	PIBLK-PP068149.D	SDG No.:	P4471
Lab Sample ID:	I.BLK-PP068149.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
PP068149.D	1		10/22/24	pp102224

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	19.0		70 (60) - 130 (140)	95%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		70 (60) - 130 (140)	101%	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:	10/23/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/23/24
Client Sample ID:	PIBLK-PP068155.D	SDG No.:	P4471
Lab Sample ID:	I.BLK-PP068155.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
PP068155.D	1		10/23/24	pp102324

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	19.7		70 (60) - 130 (140)	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.9		70 (60) - 130 (140)	105%	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:	10/23/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/23/24
Client Sample ID:	PIBLK-PP068170.D	SDG No.:	P4471
Lab Sample ID:	I.BLK-PP068170.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
PP068170.D	1		10/23/24	pp102324

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	19.5		70 (60) - 130 (140)	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.9		70 (60) - 130 (140)	104%	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:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164310BS	SDG No.:	P4471
Lab Sample ID:	PB164310BS	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
PP068126.D	1	10/22/24 10:10	10/22/24 14:11	PB164310

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	134		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	132		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		30 (32) - 150 (144)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.5		30 (32) - 150 (175)	93%	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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	BP-F-6MS	SDG No.:	P4471
Lab Sample ID:	P4472-05MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.1 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
PP068141.D	1	10/22/24 10:10	10/22/24 18:55	PB164310

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	167		3.70	18.6	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.6	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.6	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.6	ug/kg
12672-29-6	Aroclor-1248	8.70	U	8.70	18.6	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.6	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.6	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.6	ug/kg
11096-82-5	Aroclor-1260	149		3.20	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.0		30 (32) - 150 (144)	105%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		30 (32) - 150 (175)	100%	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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	BP-F-6MSD	SDG No.:	P4471
Lab Sample ID:	P4472-05MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	91.1 Decanted:
Sample Wt/Vol:	30.04 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
PP068142.D	1	10/22/24 10:10	10/22/24 19:12	PB164310

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	169		3.70	18.6	ug/kg
11104-28-2	Aroclor-1221	7.00	U	7.00	18.6	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	18.6	ug/kg
53469-21-9	Aroclor-1242	3.70	U	3.70	18.6	ug/kg
12672-29-6	Aroclor-1248	8.60	U	8.60	18.6	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.6	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	18.6	ug/kg
11100-14-4	Aroclor-1268	3.80	U	3.80	18.6	ug/kg
11096-82-5	Aroclor-1260	147		3.20	18.6	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.3		30 (32) - 150 (144)	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		30 (32) - 150 (175)	101%	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
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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

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP067587.D RT 750 = PP067588.D

RT 500 = PP067589.D RT 250 = PP067590.D RT 050 = PP067591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1016-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1016-3	(3)	6.00	6.00	6.01	6.00	6.01	6.00	5.90	6.10
Aroclor-1016-4	(4)	6.10	6.10	6.10	6.10	6.10	6.10	6.00	6.20
Aroclor-1016-5	(5)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1260-1	(1)	7.52	7.52	7.52	7.52	7.52	7.52	7.42	7.62
Aroclor-1260-2	(2)	7.77	7.77	7.78	7.77	7.77	7.77	7.67	7.87
Aroclor-1260-3	(3)	8.13	8.14	8.14	8.14	8.14	8.14	8.04	8.24
Aroclor-1260-4	(4)	8.37	8.37	8.38	8.37	8.37	8.37	8.27	8.47
Aroclor-1260-5	(5)	8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.75	4.75	4.76	4.75	4.76	4.75	4.65	4.85
Aroclor-1242-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1242-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1242-3	(3)	6.01	6.01	6.00	6.01	6.01	6.01	5.91	6.11
Aroclor-1242-4	(4)	6.10	6.10	6.10	6.10	6.10	6.10	6.00	6.20
Aroclor-1242-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.76	4.75	4.76	4.75	4.75	4.65	4.85
Aroclor-1248-1	(1)	5.92	5.92	5.92	5.92	5.92	5.92	5.82	6.02
Aroclor-1248-2	(2)	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
Aroclor-1248-3	(3)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-4	(4)	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Aroclor-1248-5	(5)	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.66	10.67	10.57	10.77
Tetrachloro-m-xylene		4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1254-1	(1)	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Aroclor-1254-2	(2)	6.99	6.99	6.99	6.99	6.99	6.99	6.89	7.09
Aroclor-1254-3	(3)	7.36	7.36	7.35	7.36	7.36	7.36	7.26	7.46
Aroclor-1254-4	(4)	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
Aroclor-1254-5	(5)	8.06	8.06	8.06	8.06	8.06	8.06	7.96	8.16
Decachlorobiphenyl		10.67	10.67	10.67	10.67	10.66	10.67	10.57	10.77
Tetrachloro-m-xylene		4.76	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1268-1	(1)	9.05	9.04	9.04	9.04	9.04	9.04	8.94	9.14
Aroclor-1268-2	(2)	9.15	9.14	9.14	9.14	9.14	9.14	9.04	9.24
Aroclor-1268-3	(3)	9.40	9.39	9.40	9.39	9.40	9.40	9.30	9.50
Aroclor-1268-4	(4)	9.84	9.84	9.84	9.84	9.84	9.84	9.74	9.94
Aroclor-1268-5	(5)	10.30	10.29	10.29	10.29	10.29	10.29	10.19	10.39

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.67	10.67	10.67	10.67	10.67	10.67	10.57	10.77
Tetrachloro-m-xylene	4.76	4.75	4.75	4.75	4.75	4.75	4.65	4.85

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP067587.D RT 750 = PP067588.D

RT 500 = PP067589.D RT 250 = PP067590.D RT 050 = PP067591.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1016-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1016-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1016-4	(4)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1016-5	(5)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1260-1	(1)	6.66	6.66	6.66	6.66	6.66	6.66	6.56	6.76
Aroclor-1260-2	(2)	6.85	6.85	6.85	6.85	6.85	6.85	6.75	6.95
Aroclor-1260-3	(3)	7.01	7.01	7.01	7.01	7.01	7.01	6.91	7.11
Aroclor-1260-4	(4)	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58
Aroclor-1260-5	(5)	7.72	7.72	7.72	7.72	7.72	7.72	7.62	7.82
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1242-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1242-2	(2)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-3	(3)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1242-4	(4)	5.45	5.45	5.45	5.44	5.45	5.45	5.35	5.55
Aroclor-1242-5	(5)	5.97	5.98	5.98	5.97	5.98	5.98	5.88	6.08
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1248-1	(1)	5.16	5.16	5.16	5.16	5.16	5.16	5.06	5.26
Aroclor-1248-2	(2)	5.40	5.40	5.40	5.40	5.40	5.40	5.30	5.50
Aroclor-1248-3	(3)	5.44	5.45	5.44	5.44	5.45	5.44	5.34	5.54
Aroclor-1248-4	(4)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1248-5	(5)	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1254-1	(1)	5.98	5.97	5.98	5.98	5.98	5.98	5.88	6.08
Aroclor-1254-2	(2)	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Aroclor-1254-3	(3)	6.53	6.53	6.53	6.53	6.53	6.53	6.43	6.63
Aroclor-1254-4	(4)	6.76	6.76	6.76	6.76	6.76	6.76	6.66	6.86
Aroclor-1254-5	(5)	7.18	7.18	7.18	7.18	7.18	7.18	7.08	7.28
Decachlorobiphenyl		9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene		4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15
Aroclor-1268-1	(1)	8.01	8.01	8.01	8.01	8.01	8.01	7.91	8.11
Aroclor-1268-2	(2)	8.07	8.07	8.07	8.07	8.07	8.07	7.97	8.17
Aroclor-1268-3	(3)	8.29	8.29	8.29	8.29	8.29	8.29	8.19	8.39
Aroclor-1268-4	(4)	8.60	8.60	8.60	8.60	8.60	8.60	8.50	8.70
Aroclor-1268-5	(5)	8.93	8.93	8.93	8.92	8.93	8.93	8.83	9.03

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	9.22	9.22	9.22	9.22	9.22	9.22	9.12	9.32
Tetrachloro-m-xylene	4.05	4.05	4.05	4.05	4.05	4.05	3.95	4.15

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP067587.D **CF 750 =** PP067588.D

CF 500 = PP067589.D **CF 250 =** PP067590.D **CF 050 =** PP067591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	31263736	32233361	34196172	36221284	31418860	33066683	6
Aroclor-1016-2	(2)	45702590	47619661	49829602	53216480	47485960	48770859	6
Aroclor-1016-3	(3)	29655293	30980703	32521866	34545868	29856000	31511946	6
Aroclor-1016-4	(4)	24305642	24965132	26130902	27480568	25835960	25743641	5
Aroclor-1016-5	(5)	25253642	26507995	28106138	29556500	25910240	27066903	6
Aroclor-1260-1	(1)	48881600	51062627	53497292	60189956	56487000	54023695	8
Aroclor-1260-2	(2)	57303356	59473712	62743556	68896016	67937280	63270784	8
Aroclor-1260-3	(3)	47767972	49860571	52672962	57075820	51866880	51848841	7
Aroclor-1260-4	(4)	55679811	58146343	61152700	66302976	59690240	60194414	7
Aroclor-1260-5	(5)	101142428	103711039	108382514	116162164	109162380	107712105	5
Decachlorobiphenyl		1047572970	1092521333	1163088620	1272493760	1180845600	1151304457	8
Tetrachloro-m-xylene		918389550	937648760	969374660	977965440	824831600	925642002	7
Aroclor-1242-1	(1)	26136486	27020177	28880182	30131840	27517000	27937137	6
Aroclor-1242-2	(2)	37560737	39520053	41823206	43424048	40845460	40634701	5
Aroclor-1242-3	(3)	24775066	25964975	27626992	28013716	28443000	26964750	6
Aroclor-1242-4	(4)	19919938	20877219	22020082	22198916	22236220	21450475	5
Aroclor-1242-5	(5)	22664411	23310707	24494326	25449828	24710200	24125894	5
Decachlorobiphenyl		1049846500	1096431853	1183590260	1273416280	1210794800	1162815939	8
Tetrachloro-m-xylene		918045770	945319107	991838280	988565840	844744200	937702639	6
Aroclor-1248-1	(1)	19592099	21187299	21900336	23649416	20785280	21422886	7
Aroclor-1248-2	(2)	29912773	32262593	34275072	36926580	34706360	33616676	8
Aroclor-1248-3	(3)	33038688	35344895	37623064	40558304	36562360	36625462	8
Aroclor-1248-4	(4)	36925252	39416441	41800322	44728924	39382640	40450716	7
Aroclor-1248-5	(5)	36740691	38953265	40984016	43781648	37845340	39660992	7
Decachlorobiphenyl		1055450820	1109667187	1169649200	1282118000	1302489400	1183874921	9
Tetrachloro-m-xylene		902146960	926581653	953867240	992359080	895156800	934022347	4
Aroclor-1254-1	(1)	40350769	42082559	45284156	48868552	47326420	44782491	8
Aroclor-1254-2	(2)	59814731	62129524	65787698	71625140	71131660	66097751	8
Aroclor-1254-3	(3)	64043672	65831181	69388346	74782692	73217700	69452718	7
Aroclor-1254-4	(4)	45989306	47460167	50157578	54420004	51495700	49904551	7
Aroclor-1254-5	(5)	54192853	57072867	59852552	64108404	61236860	59292707	6
Decachlorobiphenyl		1068499200	1106116080	1182150460	1298012320	1262855400	1183526692	8
Tetrachloro-m-xylene		931363580	935898013	956149560	989159640	878805200	938275199	4
Aroclor-1268-1	(1)	139515419	144470283	150997662	162718796	165540620	152648556	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	125679796	130088461	136577130	145743784	144888120	136595458	6
Aroclor-1268-3	(3)	110668977	116741077	119635012	130534268	127010440	120917955	7
Aroclor-1268-4	(4)	48063749	49890017	52720184	55641072	47784700	50819944	7
Aroclor-1268-5	(5)	348373365	356693093	372169718	389623012	400486540	373469146	6
Decachlorobiphenyl		1758376420	1827520213	1952930880	2093924120	2163079000	1959166127	9
Tetrachloro-m-xylene		908125750	922962547	955684560	986676760	888810200	932451963	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Instrument ID: ECD_P **Calibration Date(s):** 10/08/2024 10/08/2024

Calibration Times: 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP067587.D **CF 750 =** PP067588.D

CF 500 = PP067589.D **CF 250 =** PP067590.D **CF 050 =** PP067591.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	32214100	33511487	34894776	37855020	36460880	34987253	6
Aroclor-1016-2	(2)	45072170	46943971	48711842	52177748	47937020	48168550	5
Aroclor-1016-3	(3)	25675074	27277663	27567444	28514452	25652840	26937495	5
Aroclor-1016-4	(4)	22207756	23688287	24482426	25758704	24288360	24085107	5
Aroclor-1016-5	(5)	28303958	30184395	30998408	32062244	30500300	30409861	5
Aroclor-1260-1	(1)	51490839	53867885	56846930	62693500	59910740	56961979	8
Aroclor-1260-2	(2)	60685581	63183867	66653346	73175968	69823160	66704384	8
Aroclor-1260-3	(3)	58195863	60818087	64471984	69084640	65935040	63701123	7
Aroclor-1260-4	(4)	51141777	52463477	55669740	60213672	56975040	55292741	7
Aroclor-1260-5	(5)	115751172	117431688	122205526	128041940	128062520	122298569	5
Decachlorobiphenyl		1016699470	1064912133	1114817860	1215156720	1195705800	1121458397	8
Tetrachloro-m-xylene		976302160	1002778080	1038188640	1086259240	948485600	1010402744	5
Aroclor-1242-1	(1)	26643227	27902807	30082486	31864192	28889440	29076430	7
Aroclor-1242-2	(2)	37173910	38324184	40855302	43058560	41326680	40147727	6
Aroclor-1242-3	(3)	21209836	21846417	23389330	23608008	22421520	22495022	5
Aroclor-1242-4	(4)	21894421	22781385	24633780	25302636	24076280	23737700	6
Aroclor-1242-5	(5)	25904963	27452171	28860038	30792124	30238540	28649567	7
Decachlorobiphenyl		1030873660	1074484253	1144199140	1227463640	1208383800	1137080899	7
Tetrachloro-m-xylene		979317100	1008877893	1048426020	1079705600	995407400	1022346803	4
Aroclor-1248-1	(1)	20323070	21892911	22863994	24075660	24163260	22663779	7
Aroclor-1248-2	(2)	29599820	31598663	33173378	36121664	34985540	33095813	8
Aroclor-1248-3	(3)	31098926	33116664	34686272	37576628	35894680	34474634	7
Aroclor-1248-4	(4)	36529837	38774123	40329020	44225180	44921420	40955916	9
Aroclor-1248-5	(5)	34201195	35911461	37616042	40473884	39013140	37443144	7
Decachlorobiphenyl		1032353410	1073137907	1131465640	1215505400	1241215600	1138735591	8
Tetrachloro-m-xylene		952656120	994994613	1000591240	1068188360	991037600	1001493587	4
Aroclor-1254-1	(1)	53478224	54895953	58959138	64085456	64000720	59083898	8
Aroclor-1254-2	(2)	47135286	48672312	52146652	56922440	57444240	52464186	9
Aroclor-1254-3	(3)	76675976	78569371	83205416	89086976	88502520	83208052	7
Aroclor-1254-4	(4)	44235570	45939643	48363680	51938700	50893660	48274251	7
Aroclor-1254-5	(5)	68142947	70671431	73760414	78813244	76368180	73551243	6
Decachlorobiphenyl		1041164600	1082182560	1142537200	1244245720	1270180600	1156062136	9
Tetrachloro-m-xylene		969890570	991360533	1038975520	1064707400	994465600	1011879925	4
Aroclor-1268-1	(1)	146986557	151844596	158019168	168079912	170778780	159141803	6

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	133073925	137248829	142523422	151222024	151862520	143186144	6
Aroclor-1268-3	(3)	117364027	121504320	126517254	135757020	136405580	127509640	7
Aroclor-1268-4	(4)	51956547	53952379	54797154	61002600	60671520	56476040	7
Aroclor-1268-5	(5)	359344903	364434196	374618632	391618688	400161860	378035656	5
Decachlorobiphenyl		1755186720	1802467867	1889666160	2047579480	2153015200	1929583085	9
Tetrachloro-m-xylene		970169850	991215560	1007059780	1064676080	979052800	1002434814	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Instrument ID: ECD_P **Date(s) Analyzed:** 10/08/2024 10/08/2024

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	4.96	4.86	5.06	12809900
		2	5.04	4.94	5.14	9460580
		3	5.12	5.02	5.22	28907800
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	5.12	5.02	5.22	22859800
		2	5.65	5.55	5.75	11783000
		3	5.94	5.84	6.04	22275000
		4	6.10	6.00	6.20	11287400
		5	6.19	6.09	6.29	9120180
Aroclor-1262	500	1	8.37	8.27	8.47	71771400
		2	8.71	8.61	8.81	121580000
		3	9.05	8.95	9.15	88514200
		4	9.14	9.04	9.24	69944800
		5	9.84	9.74	9.94	46791200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Instrument ID: ECD_P **Date(s) Analyzed:** 10/08/2024 10/08/2024

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	4.27	4.17	4.37	13170200
		2	4.36	4.26	4.46	9961240
		3	4.43	4.33	4.53	31131200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.43	4.33	4.53	24333000
		2	5.18	5.08	5.28	22365000
		3	5.36	5.26	5.46	11943800
		4	5.45	5.35	5.55	11531400
		5	5.62	5.52	5.72	13450300
Aroclor-1262	500	1	7.22	7.12	7.32	78673400
		2	7.48	7.38	7.58	70962000
		3	8.01	7.91	8.11	57099400
		4	8.07	7.97	8.17	100436000
		5	8.60	8.50	8.70	50017800

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/22/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 11:13 **Initial Calibration Time(s):** 16:30 23:46

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)	5.93	5.92	5.82	6.02	-0.01
Aroclor-1016-2	(2)	5.95	5.94	5.84	6.04	-0.01
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.41	6.40	6.30	6.50	-0.01
Aroclor-1260-1	(1)	7.53	7.52	7.42	7.62	-0.01
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.38	8.38	8.28	8.48	0.00
Aroclor-1260-5	(5)	8.72	8.71	8.61	8.81	-0.01
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.68	10.67	10.57	10.77	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/22/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 11:13 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.01	7.01	6.91	7.11	0.00
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/22/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068120.D **Time Analyzed:** 11:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.926	5.819	6.019	454.860	500.000	-9.0
Aroclor-1016-2	5.948	5.842	6.042	450.150	500.000	-10.0
Aroclor-1016-3	6.012	5.905	6.105	424.040	500.000	-15.2
Aroclor-1016-4	6.110	6.003	6.203	433.190	500.000	-13.4
Aroclor-1016-5	6.405	6.298	6.498	423.950	500.000	-15.2
Aroclor-1260-1	7.527	7.422	7.622	431.540	500.000	-13.7
Aroclor-1260-2	7.780	7.675	7.875	408.050	500.000	-18.4
Aroclor-1260-3	8.143	8.037	8.237	405.150	500.000	-19.0
Aroclor-1260-4	8.378	8.275	8.475	487.540	500.000	-2.5
Aroclor-1260-5	8.718	8.612	8.812	445.850	500.000	-10.8
Decachlorobiphenyl	10.678	10.569	10.769	43.800	50.000	-12.4
Tetrachloro-m-xylene	4.762	4.655	4.855	53.280	50.000	6.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/22/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068120.D **Time Analyzed:** 11:13

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.159	5.061	5.261	449.800	500.000	-10.0
Aroclor-1016-2	5.179	5.081	5.281	481.970	500.000	-3.6
Aroclor-1016-3	5.359	5.262	5.462	482.710	500.000	-3.5
Aroclor-1016-4	5.399	5.301	5.501	444.810	500.000	-11.0
Aroclor-1016-5	5.618	5.520	5.720	460.900	500.000	-7.8
Aroclor-1260-1	6.662	6.564	6.764	464.140	500.000	-7.2
Aroclor-1260-2	6.848	6.750	6.950	451.900	500.000	-9.6
Aroclor-1260-3	7.006	6.908	7.108	465.400	500.000	-6.9
Aroclor-1260-4	7.480	7.383	7.583	460.440	500.000	-7.9
Aroclor-1260-5	7.719	7.622	7.822	479.760	500.000	-4.0
Decachlorobiphenyl	9.212	9.119	9.319	45.900	50.000	-8.2
Tetrachloro-m-xylene	4.051	3.952	4.152	51.090	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/22/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 17:19 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.92	5.92	5.82	6.02	0.00
Aroclor-1016-2	(2)	5.94	5.94	5.84	6.04	0.00
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.40	6.40	6.30	6.50	0.00
Aroclor-1260-1	(1)	7.52	7.52	7.42	7.62	0.00
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.37	8.38	8.28	8.48	0.01
Aroclor-1260-5	(5)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.67	10.67	10.57	10.77	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/22/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 17:19 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.00	7.01	6.91	7.11	0.01
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/22/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068135.D **Time Analyzed:** 17:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.921	5.819	6.019	476.530	500.000	-4.7
Aroclor-1016-2	5.943	5.842	6.042	476.580	500.000	-4.7
Aroclor-1016-3	6.007	5.905	6.105	445.380	500.000	-10.9
Aroclor-1016-4	6.105	6.003	6.203	435.360	500.000	-12.9
Aroclor-1016-5	6.399	6.298	6.498	426.520	500.000	-14.7
Aroclor-1260-1	7.522	7.422	7.622	469.860	500.000	-6.0
Aroclor-1260-2	7.775	7.675	7.875	457.190	500.000	-8.6
Aroclor-1260-3	8.136	8.037	8.237	431.890	500.000	-13.6
Aroclor-1260-4	8.374	8.275	8.475	443.470	500.000	-11.3
Aroclor-1260-5	8.711	8.612	8.812	453.220	500.000	-9.4
Decachlorobiphenyl	10.666	10.569	10.769	46.360	50.000	-7.3
Tetrachloro-m-xylene	4.757	4.655	4.855	52.520	50.000	5.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/22/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068135.D **Time Analyzed:** 17:19

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.157	5.061	5.261	469.700	500.000	-6.1
Aroclor-1016-2	5.177	5.081	5.281	484.650	500.000	-3.1
Aroclor-1016-3	5.358	5.262	5.462	473.010	500.000	-5.4
Aroclor-1016-4	5.397	5.301	5.501	446.500	500.000	-10.7
Aroclor-1016-5	5.616	5.520	5.720	503.430	500.000	0.7
Aroclor-1260-1	6.659	6.564	6.764	461.890	500.000	-7.6
Aroclor-1260-2	6.846	6.750	6.950	453.780	500.000	-9.2
Aroclor-1260-3	7.003	6.908	7.108	460.980	500.000	-7.8
Aroclor-1260-4	7.477	7.383	7.583	461.370	500.000	-7.7
Aroclor-1260-5	7.715	7.622	7.822	476.330	500.000	-4.7
Decachlorobiphenyl	9.208	9.119	9.319	46.250	50.000	-7.5
Tetrachloro-m-xylene	4.050	3.952	4.152	49.980	50.000	0.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/22/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 20:43 **Initial Calibration Time(s):** 16:30 23:46

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)	5.92	5.92	5.82	6.02	0.00
Aroclor-1016-2	(2)	5.94	5.94	5.84	6.04	0.00
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.40	6.40	6.30	6.50	0.00
Aroclor-1260-1	(1)	7.52	7.52	7.42	7.62	0.00
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.37	8.38	8.28	8.48	0.01
Aroclor-1260-5	(5)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.67	10.67	10.57	10.77	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/22/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 20:43 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.01
Aroclor-1260-3	(3)	7.00	7.01	6.91	7.11	0.01
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/22/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068145.D **Time Analyzed:** 20:43

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.921	5.819	6.019	521.080	500.000	4.2
Aroclor-1016-2	5.943	5.842	6.042	525.740	500.000	5.1
Aroclor-1016-3	6.007	5.905	6.105	525.970	500.000	5.2
Aroclor-1016-4	6.105	6.003	6.203	516.400	500.000	3.3
Aroclor-1016-5	6.399	6.298	6.498	489.130	500.000	-2.2
Aroclor-1260-1	7.522	7.422	7.622	483.700	500.000	-3.3
Aroclor-1260-2	7.775	7.675	7.875	478.850	500.000	-4.2
Aroclor-1260-3	8.137	8.037	8.237	484.590	500.000	-3.1
Aroclor-1260-4	8.374	8.275	8.475	477.400	500.000	-4.5
Aroclor-1260-5	8.711	8.612	8.812	478.470	500.000	-4.3
Decachlorobiphenyl	10.665	10.569	10.769	50.750	50.000	1.5
Tetrachloro-m-xylene	4.757	4.655	4.855	53.520	50.000	7.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/22/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068145.D **Time Analyzed:** 20:43

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.157	5.061	5.261	472.880	500.000	-5.4
Aroclor-1016-2	5.177	5.081	5.281	479.700	500.000	-4.1
Aroclor-1016-3	5.358	5.262	5.462	484.480	500.000	-3.1
Aroclor-1016-4	5.397	5.301	5.501	478.080	500.000	-4.4
Aroclor-1016-5	5.616	5.520	5.720	525.350	500.000	5.1
Aroclor-1260-1	6.659	6.564	6.764	470.850	500.000	-5.8
Aroclor-1260-2	6.845	6.750	6.950	468.080	500.000	-6.4
Aroclor-1260-3	7.003	6.908	7.108	466.000	500.000	-6.8
Aroclor-1260-4	7.477	7.383	7.583	462.290	500.000	-7.5
Aroclor-1260-5	7.716	7.622	7.822	465.380	500.000	-6.9
Decachlorobiphenyl	9.207	9.119	9.319	47.030	50.000	-5.9
Tetrachloro-m-xylene	4.050	3.952	4.152	49.440	50.000	-1.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/23/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 09:30 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.92	5.92	5.82	6.02	0.00
Aroclor-1016-2	(2)	5.95	5.94	5.84	6.04	-0.01
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.40	6.40	6.30	6.50	0.00
Aroclor-1260-1	(1)	7.53	7.52	7.42	7.62	-0.01
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.38	8.38	8.28	8.48	0.00
Aroclor-1260-5	(5)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.67	10.67	10.57	10.77	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/23/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 09:30 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.00	7.01	6.91	7.11	0.01
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/23/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068151.D **Time Analyzed:** 09:30

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.923	5.819	6.019	509.490	500.000	1.9
Aroclor-1016-2	5.945	5.842	6.042	522.480	500.000	4.5
Aroclor-1016-3	6.009	5.905	6.105	515.710	500.000	3.1
Aroclor-1016-4	6.107	6.003	6.203	506.700	500.000	1.3
Aroclor-1016-5	6.401	6.298	6.498	491.580	500.000	-1.7
Aroclor-1260-1	7.525	7.422	7.622	469.920	500.000	-6.0
Aroclor-1260-2	7.778	7.675	7.875	469.080	500.000	-6.2
Aroclor-1260-3	8.139	8.037	8.237	478.230	500.000	-4.4
Aroclor-1260-4	8.377	8.275	8.475	470.780	500.000	-5.8
Aroclor-1260-5	8.714	8.612	8.812	474.520	500.000	-5.1
Decachlorobiphenyl	10.672	10.569	10.769	49.780	50.000	-0.4
Tetrachloro-m-xylene	4.759	4.655	4.855	52.360	50.000	4.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/23/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068151.D **Time Analyzed:** 09:30

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.159	5.061	5.261	471.440	500.000	-5.7
Aroclor-1016-2	5.178	5.081	5.281	472.270	500.000	-5.5
Aroclor-1016-3	5.359	5.262	5.462	475.440	500.000	-4.9
Aroclor-1016-4	5.398	5.301	5.501	471.380	500.000	-5.7
Aroclor-1016-5	5.617	5.520	5.720	472.660	500.000	-5.5
Aroclor-1260-1	6.660	6.564	6.764	464.670	500.000	-7.1
Aroclor-1260-2	6.846	6.750	6.950	462.090	500.000	-7.6
Aroclor-1260-3	7.004	6.908	7.108	468.280	500.000	-6.3
Aroclor-1260-4	7.479	7.383	7.583	468.800	500.000	-6.2
Aroclor-1260-5	7.718	7.622	7.822	466.860	500.000	-6.6
Decachlorobiphenyl	9.211	9.119	9.319	47.830	50.000	-4.3
Tetrachloro-m-xylene	4.052	3.952	4.152	48.140	50.000	-3.7

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/23/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 15:57 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.92	5.92	5.82	6.02	0.00
Aroclor-1016-2	(2)	5.94	5.94	5.84	6.04	0.00
Aroclor-1016-3	(3)	6.01	6.01	5.91	6.11	0.00
Aroclor-1016-4	(4)	6.11	6.10	6.00	6.20	-0.01
Aroclor-1016-5	(5)	6.40	6.40	6.30	6.50	0.00
Aroclor-1260-1	(1)	7.52	7.52	7.42	7.62	0.00
Aroclor-1260-2	(2)	7.78	7.78	7.68	7.88	0.00
Aroclor-1260-3	(3)	8.14	8.14	8.04	8.24	0.00
Aroclor-1260-4	(4)	8.38	8.38	8.28	8.48	0.00
Aroclor-1260-5	(5)	8.71	8.71	8.61	8.81	0.00
Tetrachloro-m-xylene		4.76	4.76	4.66	4.86	0.00
Decachlorobiphenyl		10.67	10.67	10.57	10.77	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

Continuing Calib Date: 10/23/2024 **Initial Calibration Date(s):** 10/08/2024 10/08/2024

Continuing Calib Time: 15:57 **Initial Calibration Time(s):** 16:30 23:46

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.16	5.16	5.06	5.26	0.00
Aroclor-1016-2	(2)	5.18	5.18	5.08	5.28	0.00
Aroclor-1016-3	(3)	5.36	5.36	5.26	5.46	0.00
Aroclor-1016-4	(4)	5.40	5.40	5.30	5.50	0.00
Aroclor-1016-5	(5)	5.62	5.62	5.52	5.72	0.00
Aroclor-1260-1	(1)	6.66	6.66	6.56	6.76	0.00
Aroclor-1260-2	(2)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-3	(3)	7.00	7.01	6.91	7.11	0.01
Aroclor-1260-4	(4)	7.48	7.48	7.38	7.58	0.00
Aroclor-1260-5	(5)	7.72	7.72	7.62	7.82	0.00
Tetrachloro-m-xylene		4.05	4.05	3.95	4.15	0.00
Decachlorobiphenyl		9.21	9.22	9.12	9.32	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/23/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068166.D **Time Analyzed:** 15:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.921	5.819	6.019	491.140	500.000	-1.8
Aroclor-1016-2	5.944	5.842	6.042	505.430	500.000	1.1
Aroclor-1016-3	6.007	5.905	6.105	491.780	500.000	-1.6
Aroclor-1016-4	6.105	6.003	6.203	485.430	500.000	-2.9
Aroclor-1016-5	6.399	6.298	6.498	476.670	500.000	-4.7
Aroclor-1260-1	7.523	7.422	7.622	449.530	500.000	-10.1
Aroclor-1260-2	7.776	7.675	7.875	448.260	500.000	-10.3
Aroclor-1260-3	8.138	8.037	8.237	457.380	500.000	-8.5
Aroclor-1260-4	8.376	8.275	8.475	456.620	500.000	-8.7
Aroclor-1260-5	8.713	8.612	8.812	462.630	500.000	-7.5
Decachlorobiphenyl	10.670	10.569	10.769	48.800	50.000	-2.4
Tetrachloro-m-xylene	4.757	4.655	4.855	51.470	50.000	2.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4471 **SAS No.:** P4471 **SDG NO.:** P4471

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/08/2024 10/08/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/23/2024

Lab Sample No.: AR1660CCC500 **Data File :** PP068166.D **Time Analyzed:** 15:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.157	5.061	5.261	465.090	500.000	-7.0
Aroclor-1016-2	5.177	5.081	5.281	473.530	500.000	-5.3
Aroclor-1016-3	5.357	5.262	5.462	476.580	500.000	-4.7
Aroclor-1016-4	5.397	5.301	5.501	471.310	500.000	-5.7
Aroclor-1016-5	5.616	5.520	5.720	467.820	500.000	-6.4
Aroclor-1260-1	6.659	6.564	6.764	451.860	500.000	-9.6
Aroclor-1260-2	6.846	6.750	6.950	457.130	500.000	-8.6
Aroclor-1260-3	7.004	6.908	7.108	455.780	500.000	-8.8
Aroclor-1260-4	7.478	7.383	7.583	458.570	500.000	-8.3
Aroclor-1260-5	7.716	7.622	7.822	455.920	500.000	-8.8
Decachlorobiphenyl	9.209	9.119	9.319	46.300	50.000	-7.4
Tetrachloro-m-xylene	4.050	3.952	4.152	48.480	50.000	-3.0

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/08/2024 10/08/2024

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	10/08/2024	16:14	PP067586.D	10.67	4.75
AR1660ICC1000	AR1660ICC1000	10/08/2024	16:30	PP067587.D	10.67	4.75
AR1660ICC750	AR1660ICC750	10/08/2024	16:46	PP067588.D	10.67	4.75
AR1660ICC500	AR1660ICC500	10/08/2024	17:02	PP067589.D	10.67	4.76
AR1660ICC250	AR1660ICC250	10/08/2024	17:19	PP067590.D	10.67	4.75
AR1660ICC050	AR1660ICC050	10/08/2024	17:35	PP067591.D	10.67	4.76
AR1221ICC500	AR1221ICC500	10/08/2024	17:51	PP067592.D	10.67	4.75
AR1232ICC500	AR1232ICC500	10/08/2024	18:07	PP067593.D	10.67	4.75
AR1242ICC1000	AR1242ICC1000	10/08/2024	18:23	PP067594.D	10.67	4.76
AR1242ICC750	AR1242ICC750	10/08/2024	18:39	PP067595.D	10.67	4.76
AR1242ICC500	AR1242ICC500	10/08/2024	18:55	PP067596.D	10.67	4.75
AR1242ICC250	AR1242ICC250	10/08/2024	19:12	PP067597.D	10.67	4.76
AR1242ICC050	AR1242ICC050	10/08/2024	19:28	PP067598.D	10.67	4.75
AR1248ICC1000	AR1248ICC1000	10/08/2024	19:44	PP067599.D	10.67	4.75
AR1248ICC750	AR1248ICC750	10/08/2024	20:00	PP067600.D	10.67	4.75
AR1248ICC500	AR1248ICC500	10/08/2024	20:16	PP067601.D	10.67	4.75
AR1248ICC250	AR1248ICC250	10/08/2024	20:32	PP067602.D	10.67	4.75
AR1248ICC050	AR1248ICC050	10/08/2024	20:49	PP067603.D	10.66	4.75
AR1254ICC1000	AR1254ICC1000	10/08/2024	21:05	PP067604.D	10.67	4.76
AR1254ICC750	AR1254ICC750	10/08/2024	21:21	PP067605.D	10.67	4.75
AR1254ICC500	AR1254ICC500	10/08/2024	21:37	PP067606.D	10.67	4.75
AR1254ICC250	AR1254ICC250	10/08/2024	21:53	PP067607.D	10.67	4.75
AR1254ICC050	AR1254ICC050	10/08/2024	22:09	PP067608.D	10.66	4.75
AR1262ICC500	AR1262ICC500	10/08/2024	22:25	PP067609.D	10.66	4.75
AR1268ICC1000	AR1268ICC1000	10/08/2024	22:42	PP067610.D	10.67	4.76
AR1268ICC750	AR1268ICC750	10/08/2024	22:58	PP067611.D	10.67	4.75
AR1268ICC500	AR1268ICC500	10/08/2024	23:14	PP067612.D	10.67	4.75
AR1268ICC250	AR1268ICC250	10/08/2024	23:30	PP067613.D	10.67	4.75
AR1268ICC050	AR1268ICC050	10/08/2024	23:46	PP067614.D	10.67	4.75
AR1660CCC500	AR1660CCC500	10/22/2024	11:13	PP068120.D	10.68	4.76
I.BLK	I.BLK	10/22/2024	12:18	PP068124.D	10.67	4.76
PB164310BL	PB164310BL	10/22/2024	13:55	PP068125.D	10.67	4.76
PB164310BS	PB164310BS	10/22/2024	14:11	PP068126.D	10.66	4.75
B-180-SB01	P4471-01	10/22/2024	15:47	PP068132.D	10.66	4.75
AR1660CCC500	AR1660CCC500	10/22/2024	17:19	PP068135.D	10.67	4.76
I.BLK	I.BLK	10/22/2024	18:23	PP068139.D	10.67	4.76
BP-F-6MS	P4472-05MS	10/22/2024	18:55	PP068141.D	10.67	4.76
BP-F-6MSD	P4472-05MSD	10/22/2024	19:12	PP068142.D	10.67	4.76
AR1660CCC500	AR1660CCC500	10/22/2024	20:43	PP068145.D	10.67	4.76
I.BLK	I.BLK	10/22/2024	21:47	PP068149.D	10.67	4.76
AR1660CCC500	AR1660CCC500	10/23/2024	09:30	PP068151.D	10.67	4.76
I.BLK	I.BLK	10/23/2024	10:34	PP068155.D	10.67	4.76

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Analytical Sequence

B-180-SB02	P4471-02	10/23/2024	12:11	PP068156.D	10.67	4.76
AR1660CCC500	AR1660CCC500	10/23/2024	15:57	PP068166.D	10.67	4.76
I.BLK	I.BLK	10/23/2024	17:01	PP068170.D	10.67	4.76

Alliance TECHNICAL GROUP
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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/08/2024 10/08/2024

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	10/08/2024	16:14	PP067586.D	9.22	4.05
AR1660ICC1000	AR1660ICC1000	10/08/2024	16:30	PP067587.D	9.22	4.05
AR1660ICC750	AR1660ICC750	10/08/2024	16:46	PP067588.D	9.22	4.05
AR1660ICC500	AR1660ICC500	10/08/2024	17:02	PP067589.D	9.22	4.05
AR1660ICC250	AR1660ICC250	10/08/2024	17:19	PP067590.D	9.22	4.05
AR1660ICC050	AR1660ICC050	10/08/2024	17:35	PP067591.D	9.22	4.05
AR1221ICC500	AR1221ICC500	10/08/2024	17:51	PP067592.D	9.22	4.05
AR1232ICC500	AR1232ICC500	10/08/2024	18:07	PP067593.D	9.22	4.05
AR1242ICC1000	AR1242ICC1000	10/08/2024	18:23	PP067594.D	9.22	4.05
AR1242ICC750	AR1242ICC750	10/08/2024	18:39	PP067595.D	9.22	4.05
AR1242ICC500	AR1242ICC500	10/08/2024	18:55	PP067596.D	9.22	4.05
AR1242ICC250	AR1242ICC250	10/08/2024	19:12	PP067597.D	9.22	4.05
AR1242ICC050	AR1242ICC050	10/08/2024	19:28	PP067598.D	9.22	4.05
AR1248ICC1000	AR1248ICC1000	10/08/2024	19:44	PP067599.D	9.22	4.05
AR1248ICC750	AR1248ICC750	10/08/2024	20:00	PP067600.D	9.22	4.05
AR1248ICC500	AR1248ICC500	10/08/2024	20:16	PP067601.D	9.22	4.05
AR1248ICC250	AR1248ICC250	10/08/2024	20:32	PP067602.D	9.22	4.05
AR1248ICC050	AR1248ICC050	10/08/2024	20:49	PP067603.D	9.22	4.05
AR1254ICC1000	AR1254ICC1000	10/08/2024	21:05	PP067604.D	9.22	4.05
AR1254ICC750	AR1254ICC750	10/08/2024	21:21	PP067605.D	9.22	4.05
AR1254ICC500	AR1254ICC500	10/08/2024	21:37	PP067606.D	9.22	4.05
AR1254ICC250	AR1254ICC250	10/08/2024	21:53	PP067607.D	9.22	4.05
AR1254ICC050	AR1254ICC050	10/08/2024	22:09	PP067608.D	9.22	4.05
AR1262ICC500	AR1262ICC500	10/08/2024	22:25	PP067609.D	9.22	4.05
AR1268ICC1000	AR1268ICC1000	10/08/2024	22:42	PP067610.D	9.22	4.05
AR1268ICC750	AR1268ICC750	10/08/2024	22:58	PP067611.D	9.22	4.05
AR1268ICC500	AR1268ICC500	10/08/2024	23:14	PP067612.D	9.22	4.05
AR1268ICC250	AR1268ICC250	10/08/2024	23:30	PP067613.D	9.22	4.05
AR1268ICC050	AR1268ICC050	10/08/2024	23:46	PP067614.D	9.22	4.05
AR1660CCC500	AR1660CCC500	10/22/2024	11:13	PP068120.D	9.21	4.05
I.BLK	I.BLK	10/22/2024	12:18	PP068124.D	9.21	4.05
PB164310BL	PB164310BL	10/22/2024	13:55	PP068125.D	9.21	4.05
PB164310BS	PB164310BS	10/22/2024	14:11	PP068126.D	9.21	4.05
B-180-SB01	P4471-01	10/22/2024	15:47	PP068132.D	9.21	4.05
AR1660CCC500	AR1660CCC500	10/22/2024	17:19	PP068135.D	9.21	4.05
I.BLK	I.BLK	10/22/2024	18:23	PP068139.D	9.21	4.05
BP-F-6MS	P4472-05MS	10/22/2024	18:55	PP068141.D	9.21	4.05
BP-F-6MSD	P4472-05MSD	10/22/2024	19:12	PP068142.D	9.21	4.05
AR1660CCC500	AR1660CCC500	10/22/2024	20:43	PP068145.D	9.21	4.05
I.BLK	I.BLK	10/22/2024	21:47	PP068149.D	9.21	4.05
AR1660CCC500	AR1660CCC500	10/23/2024	09:30	PP068151.D	9.21	4.05
I.BLK	I.BLK	10/23/2024	10:34	PP068155.D	9.21	4.05

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Analytical Sequence

B-180-SB02	P4471-02	10/23/2024	12:11	PP068156.D	9.21	4.05
AR1660CCC500	AR1660CCC500	10/23/2024	15:57	PP068166.D	9.21	4.05
I.BLK	I.BLK	10/23/2024	17:01	PP068170.D	9.21	4.05

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164310BS

Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab Sample ID: PB164310BS Date(s) Analyzed: 10/22/2024 10/22/2024

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 PP068126.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.918	5.868	5.968	131		
	2	5.939	5.889	5.989	136		
	3	6.003	5.953	6.053	130		
COLUMN 1	4	6.101	6.051	6.151	132		
	5	6.396	6.346	6.446	122	130	
	1	5.157	5.107	5.207	136		
	2	5.177	5.127	5.227	142		
	3	5.357	5.307	5.407	139		
	4	5.396	5.346	5.446	126		
COLUMN 2	5	5.615	5.565	5.665	125	134	3.03
Aroclor-1260	1	7.518	7.468	7.568	163		
	2	7.771	7.721	7.821	133		
	3	8.133	8.083	8.183	105		
COLUMN 1	4	8.369	8.319	8.419	108		
	5	8.708	8.658	8.758	116	125	
	1	6.658	6.608	6.708	135		
	2	6.845	6.795	6.895	135		
	3	7.002	6.952	7.052	140		
	4	7.477	7.427	7.527	123		
COLUMN 2	5	7.715	7.665	7.765	129	132	5.45

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
BP-F-6MS

Contract: PORT06
Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471
Lab Sample ID: P4472-05MS Date(s) Analyzed: 10/22/2024 10/22/2024
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 PP068141.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.92	5.87	5.97	169		
	2	5.942	5.892	5.992	175		
	3	6.006	5.956	6.056	169		
COLUMN 1	4	6.104	6.054	6.154	165		
	5	6.398	6.348	6.448	157	167	
	1	5.157	5.107	5.207	162		
	2	5.177	5.127	5.227	161		
	3	5.358	5.308	5.408	162		
	4	5.397	5.347	5.447	157		
COLUMN 2	5	5.616	5.566	5.666	154	159	4.91
Aroclor-1260	1	7.521	7.471	7.571	168		
	2	7.774	7.724	7.824	161		
	3	8.135	8.085	8.185	135		
COLUMN 1	4	8.373	8.323	8.423	140		
	5	8.71	8.66	8.76	141	149	
	1	6.659	6.609	6.709	156		
	2	6.845	6.795	6.895	156		
	3	7.003	6.953	7.053	156		
	4	7.478	7.428	7.528	133		
COLUMN 2	5	7.716	7.666	7.766	136	147	1.35

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
BP-F-6MSD

Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab Sample ID: P4472-05MSD Date(s) Analyzed: 10/22/2024 10/22/2024

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 PP068142.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.92	5.87	5.97	170		
	2	5.942	5.892	5.992	176		
	3	6.006	5.956	6.056	171		
COLUMN 1	4	6.104	6.054	6.154	168		
	5	6.398	6.348	6.448	161	169	
	1	5.157	5.107	5.207	158		
	2	5.177	5.127	5.227	159		
	3	5.358	5.308	5.408	160		
	4	5.397	5.347	5.447	155		
COLUMN 2	5	5.616	5.566	5.666	151	157	7.36
Aroclor-1260	1	7.522	7.472	7.572	164		
	2	7.775	7.725	7.825	159		
	3	8.136	8.086	8.186	135		
COLUMN 1	4	8.374	8.324	8.424	140		
	5	8.711	8.661	8.761	139	147	
	1	6.659	6.609	6.709	152		
	2	6.846	6.796	6.896	152		
	3	7.003	6.953	7.053	151		
	4	7.477	7.427	7.527	130		
COLUMN 2	5	7.716	7.666	7.766	134	144	2.06

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068132.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 15:47
Operator : YP\AJ
Sample : P4471-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-180-SB01

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:48:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.754	4.051	18480019	18446449	19.965	18.257
2)	SA Decachlor...	10.663	9.209	18788609	16373885	16.319m	14.601
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

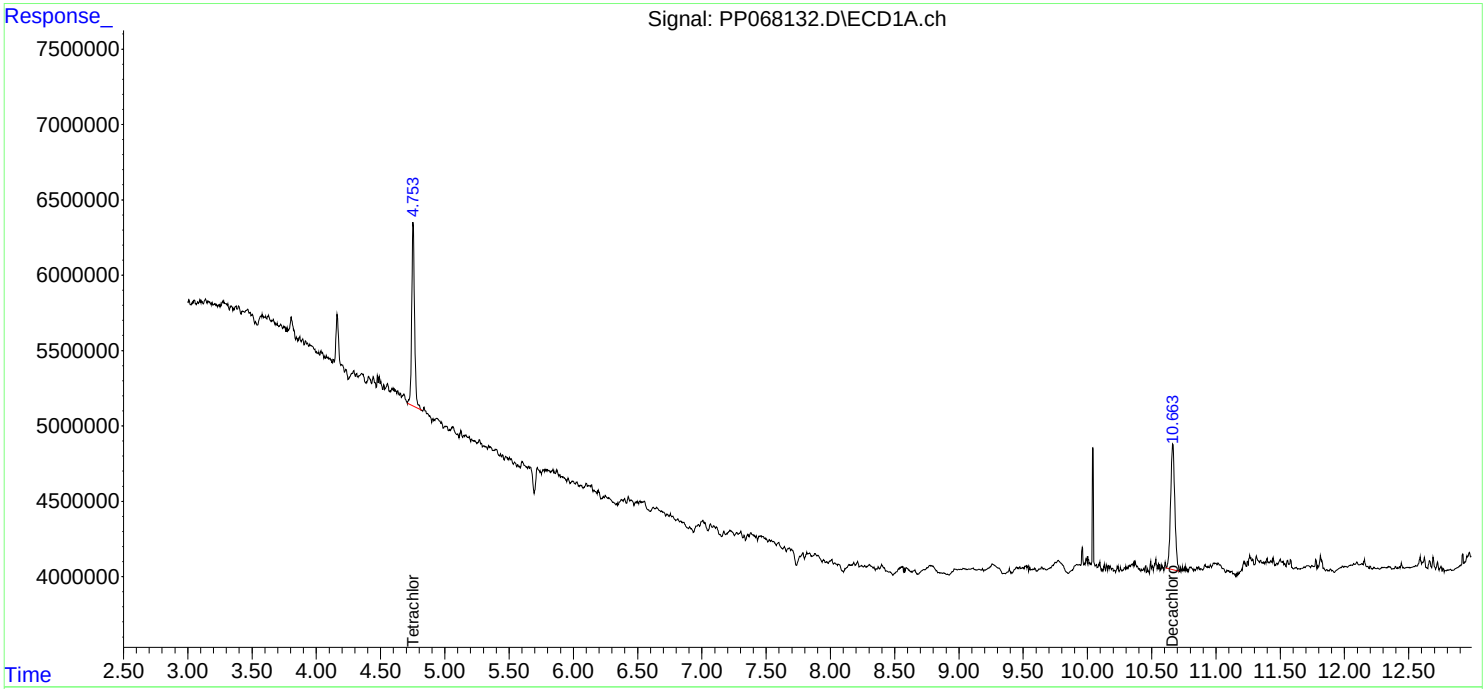
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068132.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 15:47
Operator : YP\AJ
Sample : P4471-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

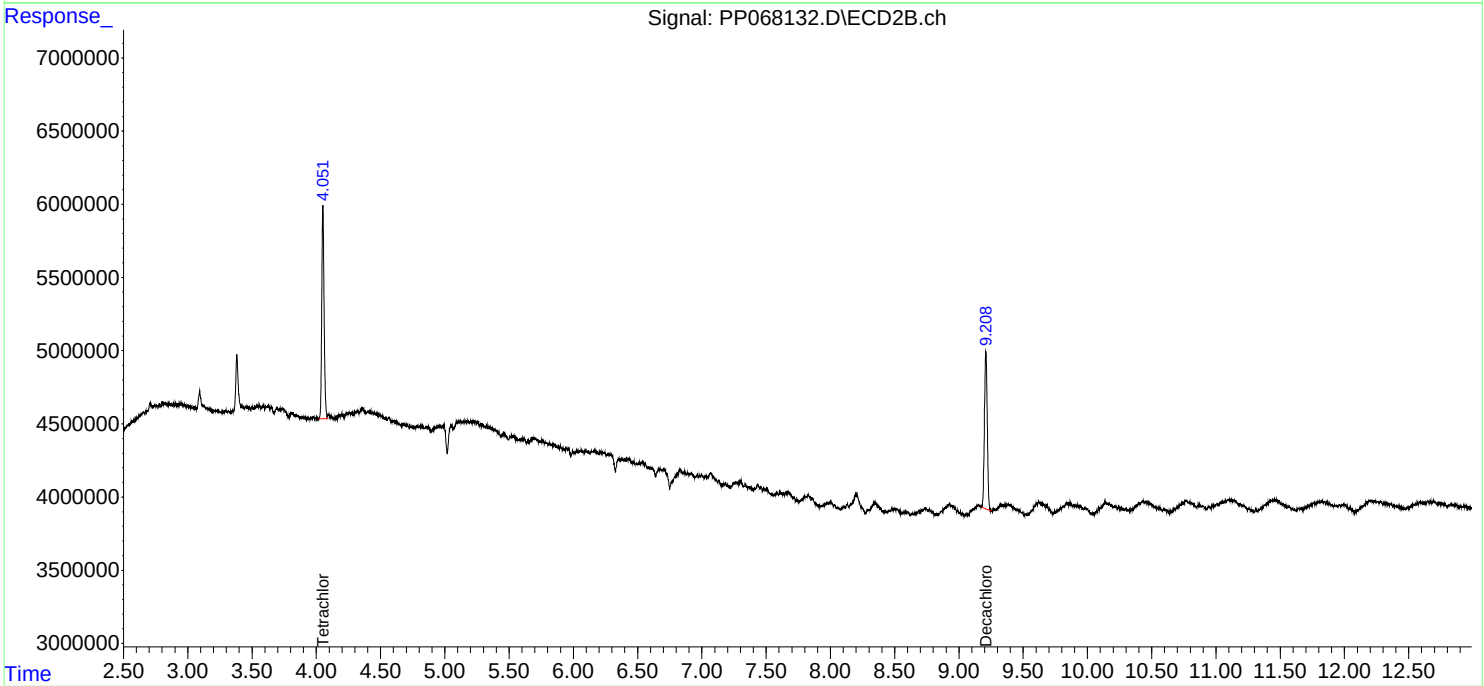
Instrument :
ECD_P
ClientSampleId :
B-180-SB01

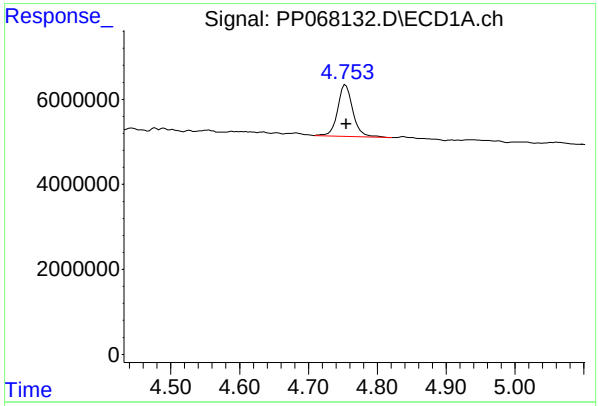
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:48:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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







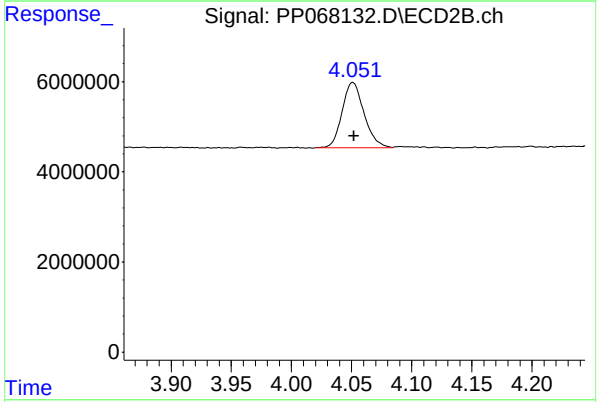
#1 Tetrachloro-m-xylene

R.T.: 4.754 min
Delta R.T.: 0.000 min
Response: 18480019
Conc: 19.96 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-180-SB01

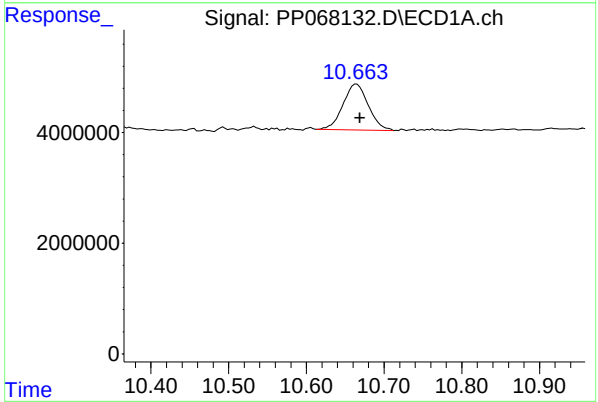
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024



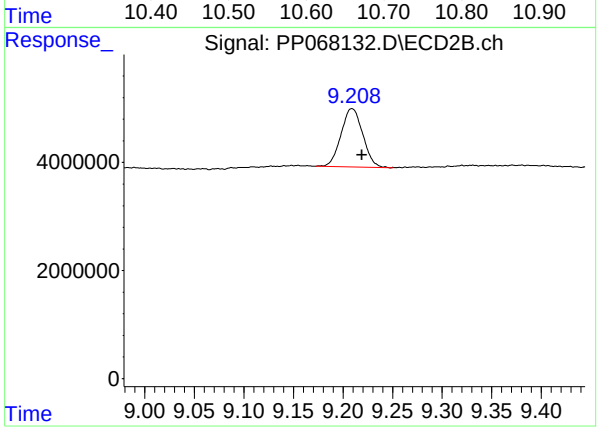
#1 Tetrachloro-m-xylene

R.T.: 4.051 min
Delta R.T.: 0.000 min
Response: 18446449
Conc: 18.26 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.663 min
Delta R.T.: -0.006 min
Response: 18788609
Conc: 16.32 ng/ml m



#2 Decachlorobiphenyl

R.T.: 9.209 min
Delta R.T.: -0.010 min
Response: 16373885
Conc: 14.60 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102324\
Data File : PP068156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 12:11
Operator : YP\AJ
Sample : P4471-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-180-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 21:39:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.757	4.051	10424736	10991976	11.262	10.879
2)	SA Decachlor...	10.672	9.211	8204337	8416786	7.126	7.505
	Target Compounds						

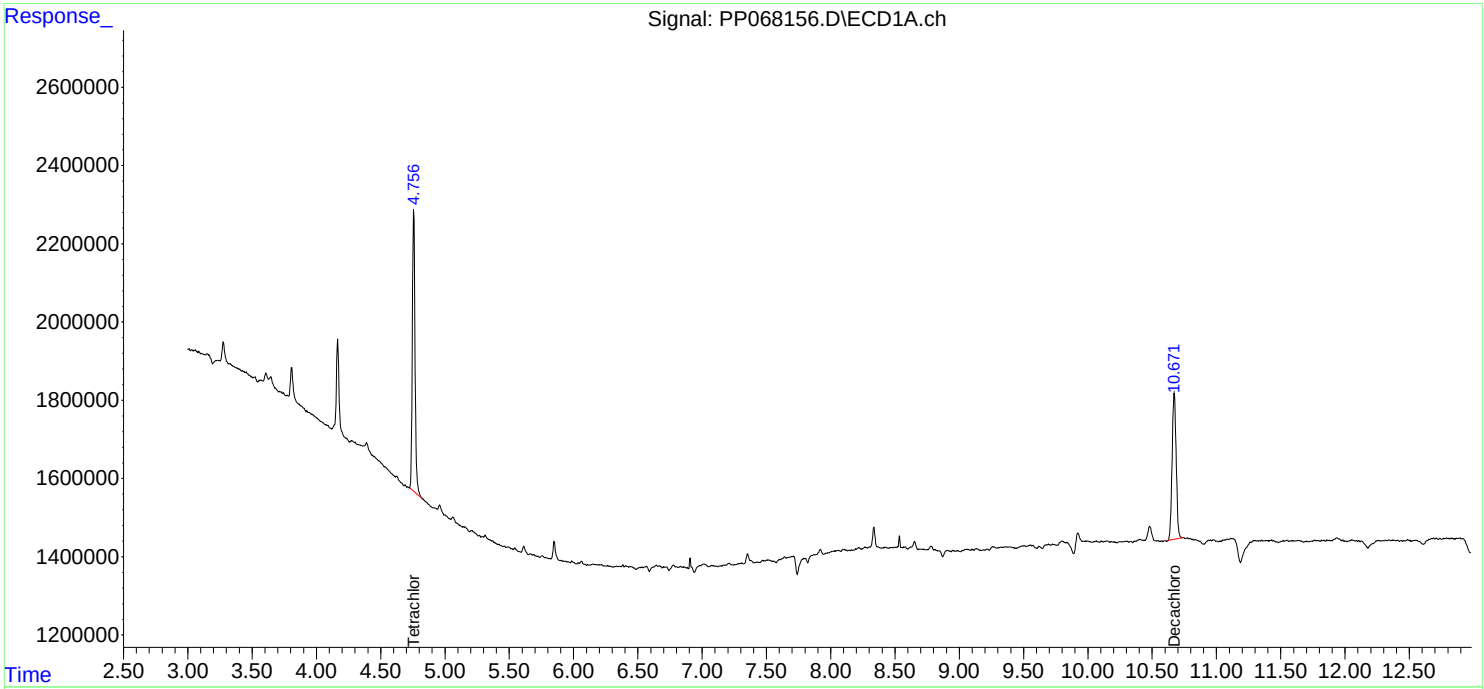
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

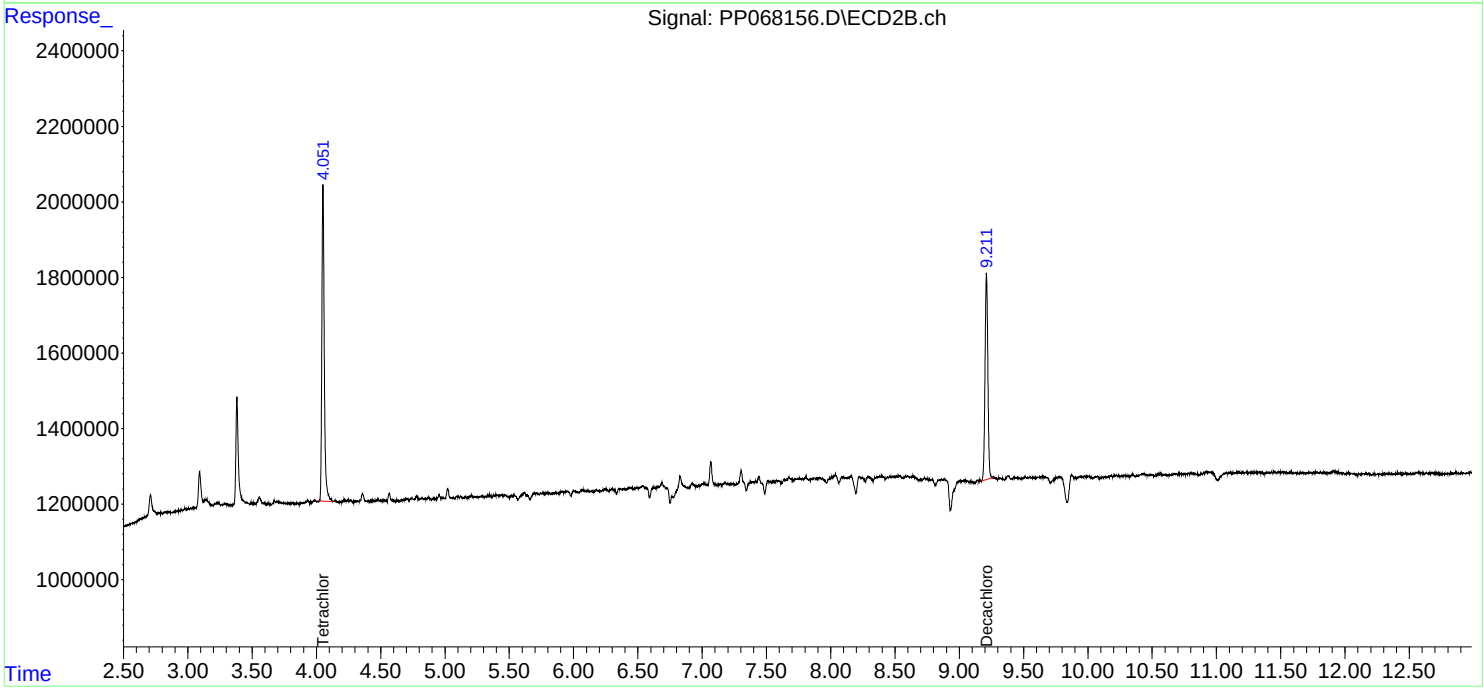
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102324\
Data File : PP068156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Oct 2024 12:11
Operator : YP\AJ
Sample : P4471-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

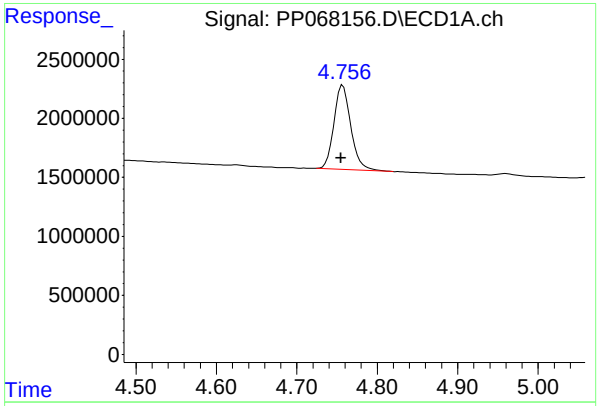
Instrument :
ECD_P
ClientSampleId :
B-180-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 21:39:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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



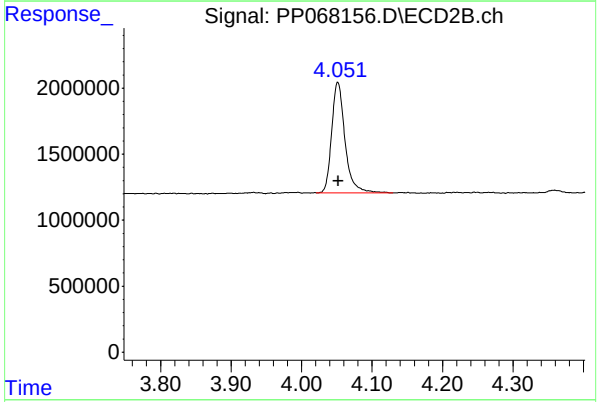




#1 Tetrachloro-m-xylene

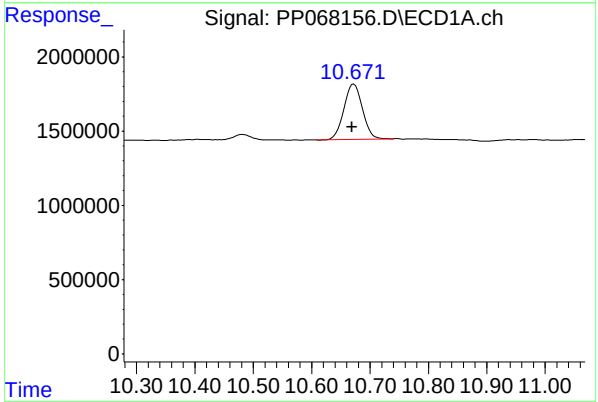
R.T.: 4.757 min
Delta R.T.: 0.002 min
Response: 10424736
Conc: 11.26 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-180-SB02



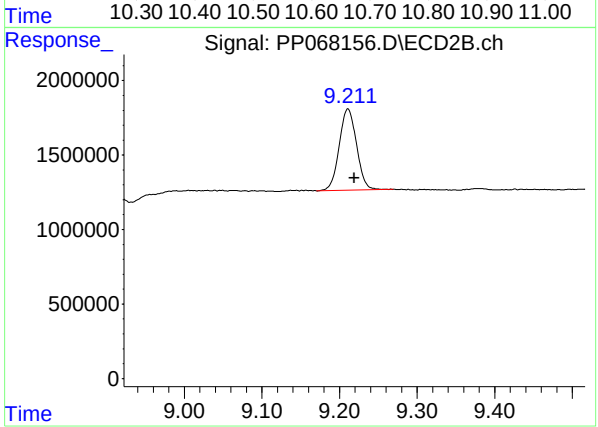
#1 Tetrachloro-m-xylene

R.T.: 4.051 min
Delta R.T.: 0.000 min
Response: 10991976
Conc: 10.88 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.672 min
Delta R.T.: 0.003 min
Response: 8204337
Conc: 7.13 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.211 min
Delta R.T.: -0.008 min
Response: 8416786
Conc: 7.51 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 13:55
Operator : YP\AJ
Sample : PB164310BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164310BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:44:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.756	4.050	18601160	19185201	20.095	18.988
2)	SA Decachlor...	10.666	9.208	19751616	20871241	17.156	18.611
	Target Compounds						

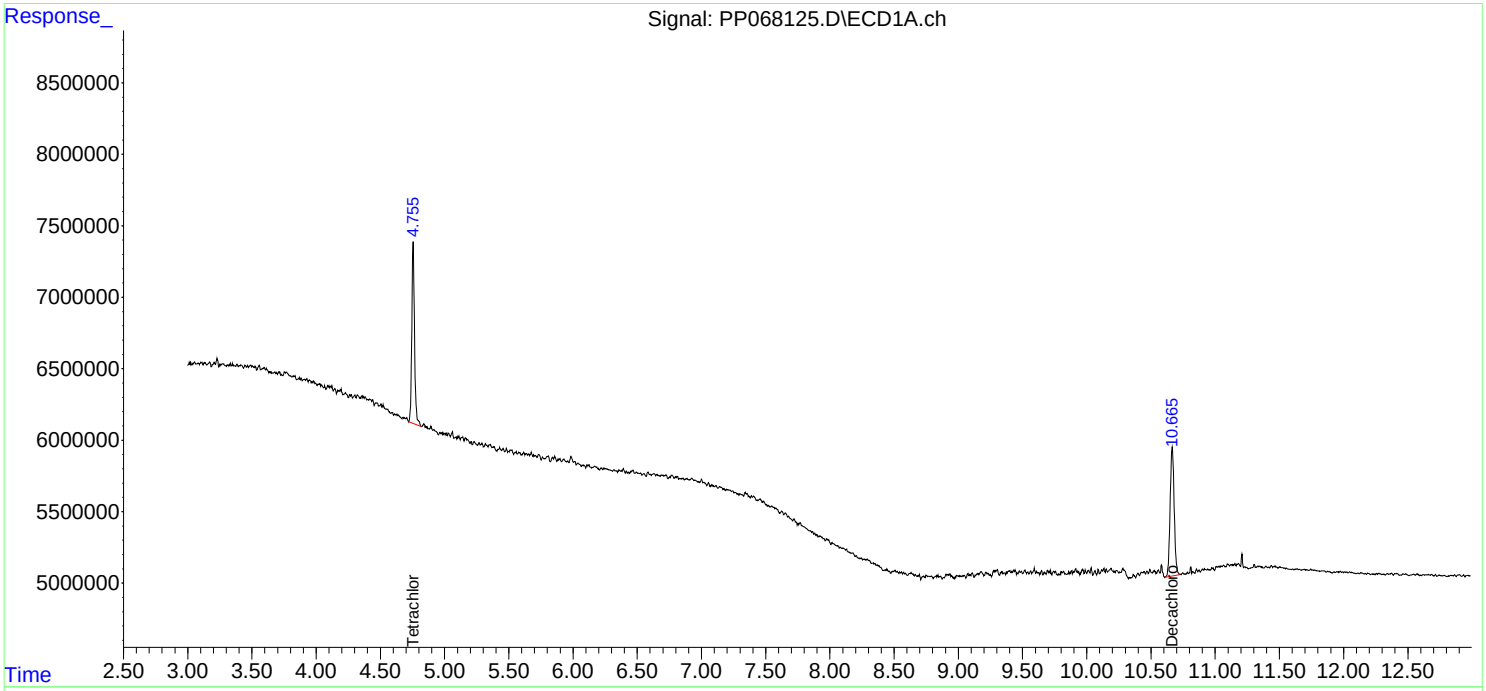
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

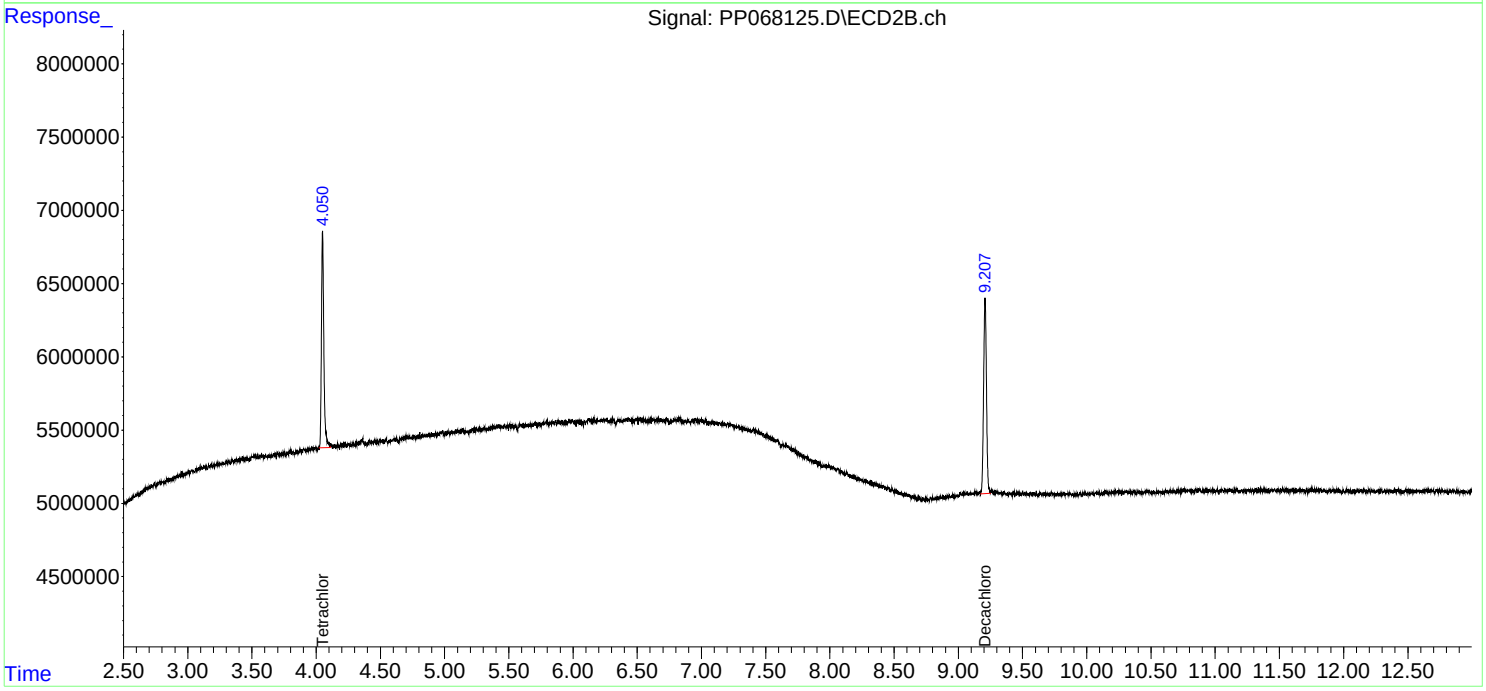
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 13:55
Operator : YP\AJ
Sample : PB164310BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

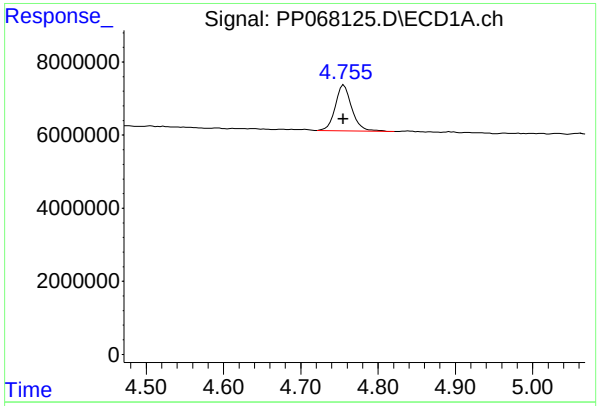
Instrument :
ECD_P
ClientSampleId :
PB164310BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:44:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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



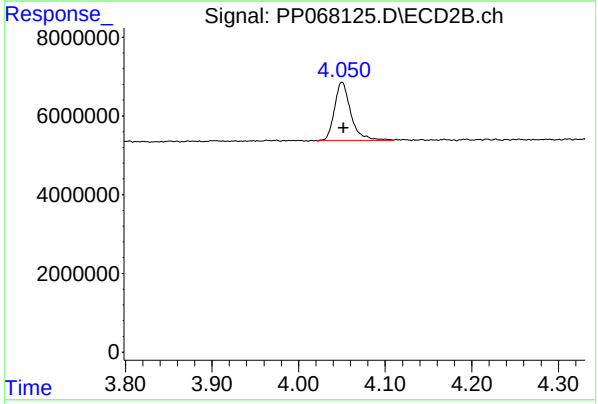




#1 Tetrachloro-m-xylene

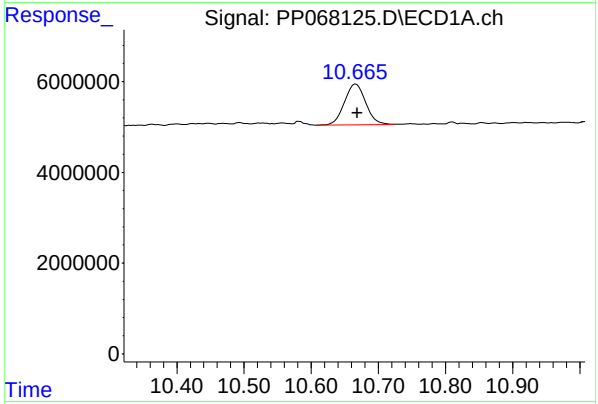
R.T.: 4.756 min
Delta R.T.: 0.001 min
Response: 18601160
Conc: 20.10 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB164310BL



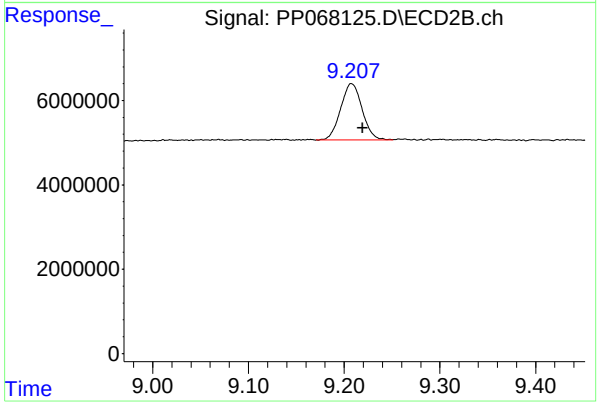
#1 Tetrachloro-m-xylene

R.T.: 4.050 min
Delta R.T.: -0.002 min
Response: 19185201
Conc: 18.99 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.666 min
Delta R.T.: -0.002 min
Response: 19751616
Conc: 17.16 ng/ml



#2 Decachlorobiphenyl

R.T.: 9.208 min
Delta R.T.: -0.011 min
Response: 20871241
Conc: 18.61 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 14:11
Operator : YP\AJ
Sample : PB164310BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB164310BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:44:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.754	4.050	18505484	18933071	19.992	18.738	
2)	SA Decachlor...	10.662	9.207	20150562	20744079	17.502	18.497	
	Target Compounds							
3)	L1 AR-1016-1	5.918	5.157	13045873	14234285	394.532	406.842	
4)	L1 AR-1016-2	5.939	5.177	19885584	20572542	407.735	427.095	
5)	L1 AR-1016-3	6.003	5.357	12267213	11257808	389.288	417.923	
6)	L1 AR-1016-4	6.101	5.396	10178439	9122313	395.377	378.753	
7)	L1 AR-1016-5	6.396	5.615	9892125	11417450	365.469	375.452	
31)	L7 AR-1260-1	7.518	6.658	26391629	23144099	488.520	406.308	
32)	L7 AR-1260-2	7.771	6.845	25278795	27062890	399.533	405.714	
33)	L7 AR-1260-3	8.133	7.002	16328049	26709746	314.916	419.298	#
34)	L7 AR-1260-4	8.369	7.477	19539635	20455126	324.609m	369.942	
35)	L7 AR-1260-5	8.708	7.715	37663808	47310155	349.671	386.841	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

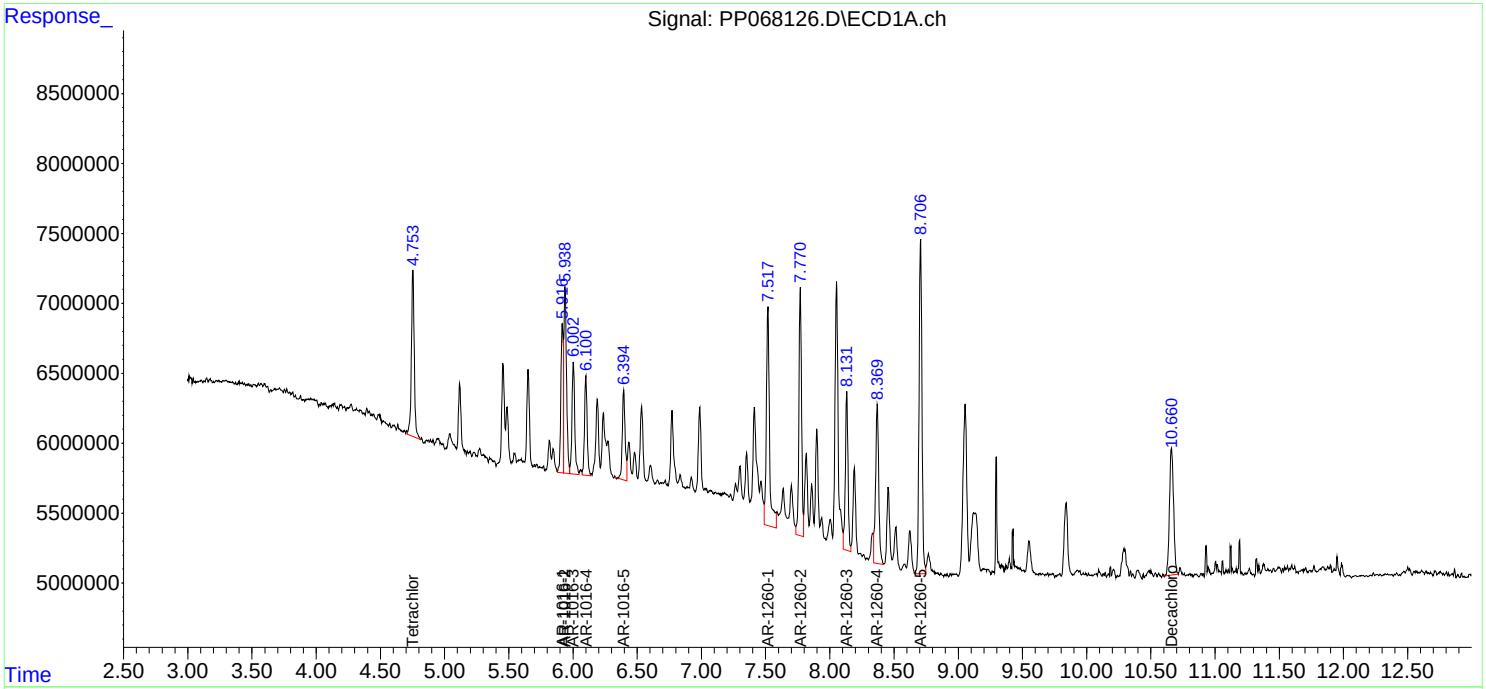
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 14:11
Operator : YP\AJ
Sample : PB164310BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

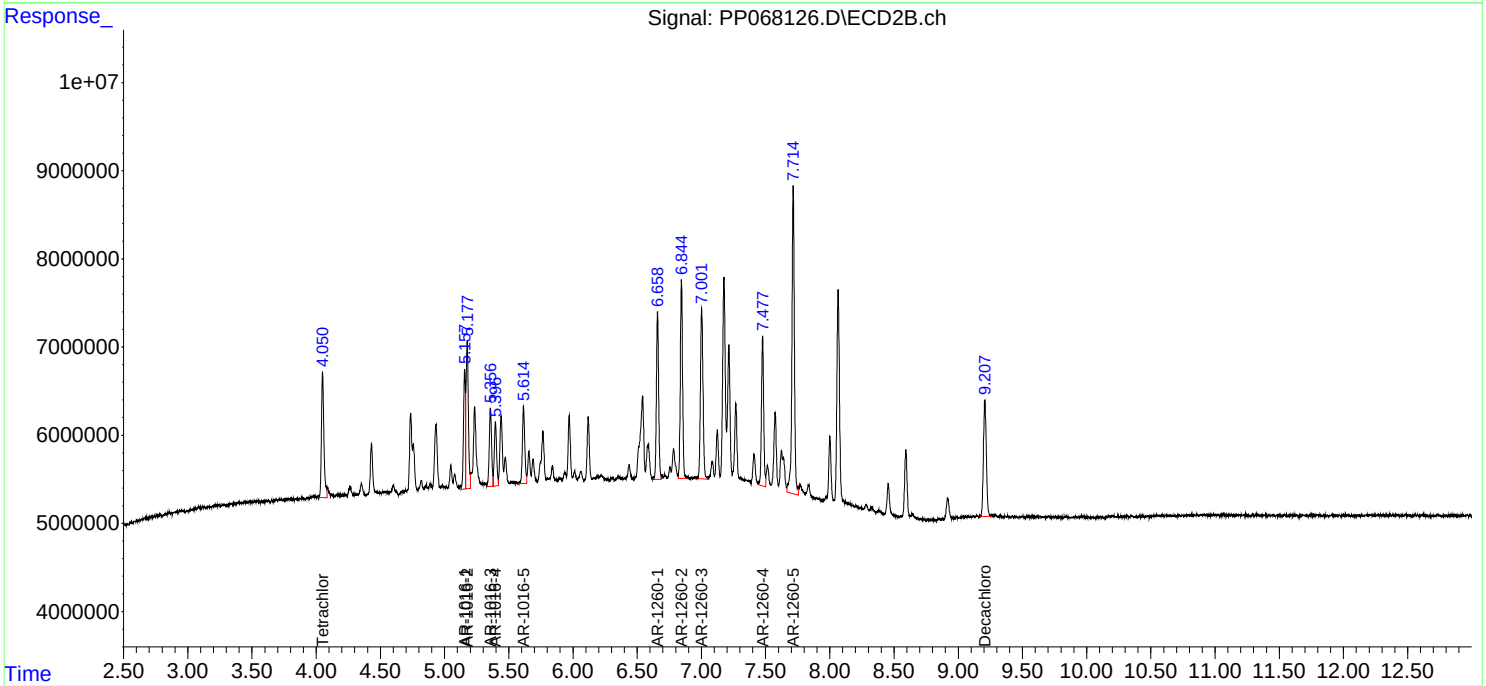
Instrument :
ECD_P
ClientSampleId :
PB164310BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:44:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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\PP102224\
Data File : PP068141.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 18:55
Operator : YP\AJ
Sample : P4472-05MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
BP-F-6MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:53:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.755	4.050	19474857	18462588	21.039	18.273
2)	SA Decachlor...	10.666	9.209	23120073	20897680	20.082	18.634
	Target Compounds						
3)	L1 AR-1016-1	5.920	5.157	15304466	15548556	462.836	444.406
4)	L1 AR-1016-2	5.942	5.177	23406774	21224356	479.934	440.627
5)	L1 AR-1016-3	6.006	5.358	14535440	11958651	461.268	443.941
6)	L1 AR-1016-4	6.104	5.397	11641708	10369169	452.217	430.522
7)	L1 AR-1016-5	6.398	5.616	11649536	12823188	430.398	421.679
31)	L7 AR-1260-1	7.521	6.659	24872592	24284973	460.402	426.337
32)	L7 AR-1260-2	7.774	6.845	27811462	28495834	439.562	427.196
33)	L7 AR-1260-3	8.135	7.003	19179490	27101124	369.912	425.442
34)	L7 AR-1260-4	8.373	7.478	23126992	20146238	384.205	364.356
35)	L7 AR-1260-5	8.710	7.716	41465889	45645131	384.970	373.227

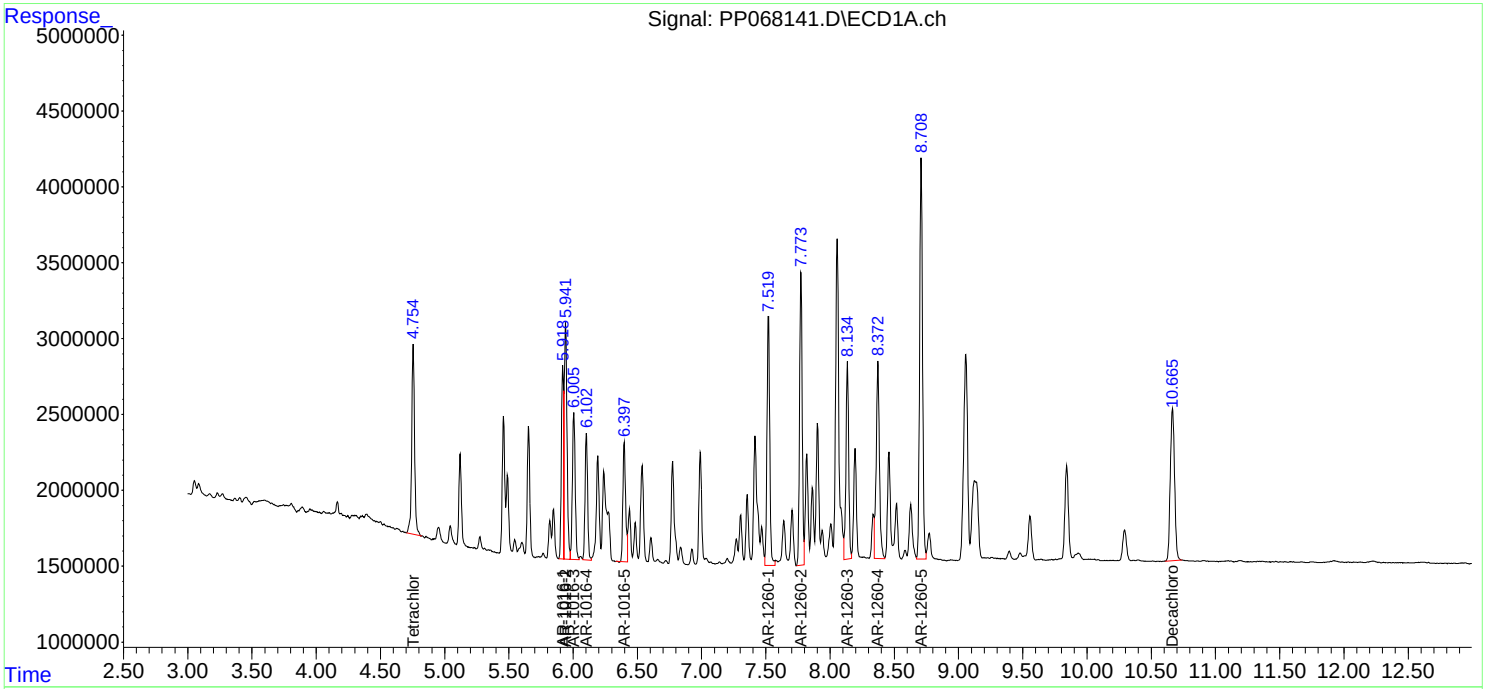
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

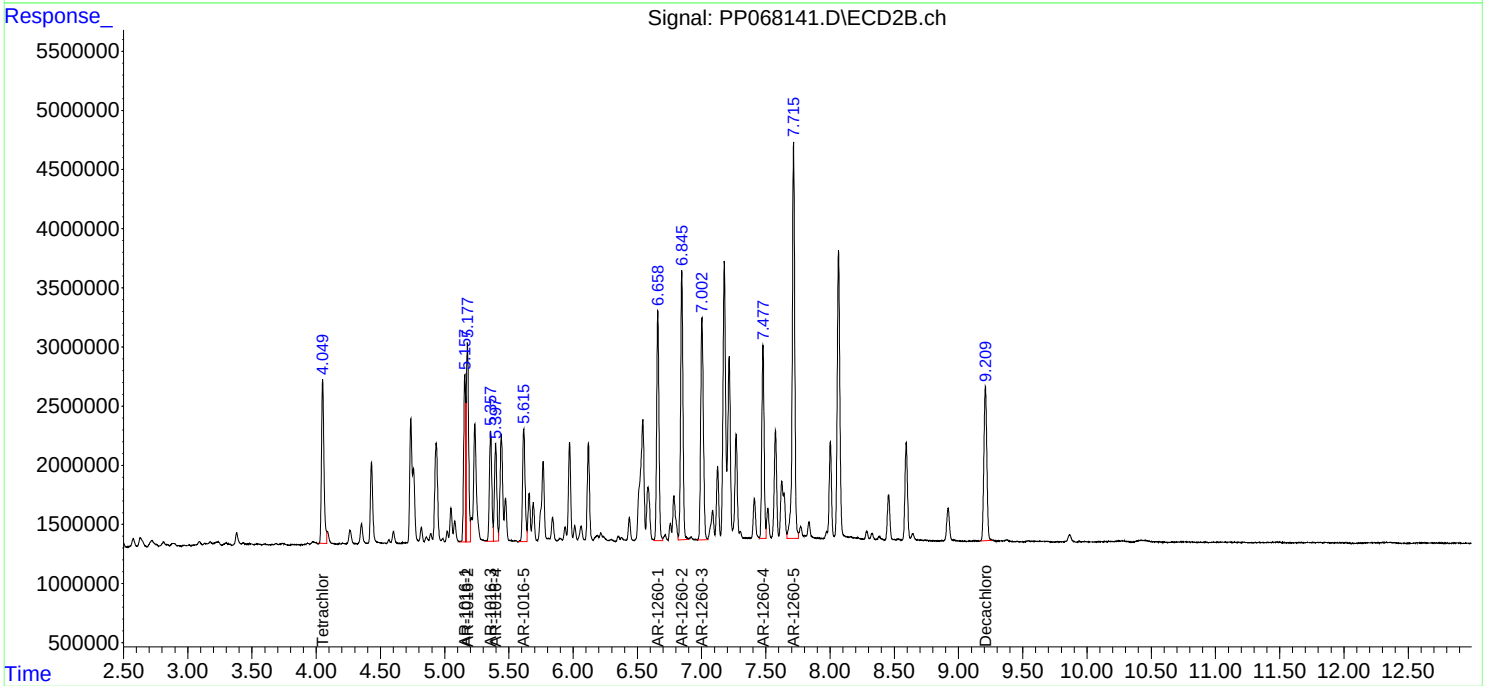
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068141.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 18:55
Operator : YP\AJ
Sample : P4472-05MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
BP-F-6MS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:53:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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\PP102224\
Data File : PP068142.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 19:12
Operator : YP\AJ
Sample : P4472-05MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
BP-F-6MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:54:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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...	4.756	4.049	19699235	18420217	21.282	18.231m
2)	SA Decachlor...	10.667	9.208	23158595	21033514	20.115	18.756
	Target Compounds						
3)	L1 AR-1016-1	5.920	5.157	15360518	15170215	464.532	433.593
4)	L1 AR-1016-2	5.942	5.177	23517308	20995796	482.200	435.882
5)	L1 AR-1016-3	6.006	5.358	14718609	11807634	467.080	438.335
6)	L1 AR-1016-4	6.104	5.397	11865472	10245991	460.909	425.408
7)	L1 AR-1016-5	6.398	5.616	11891692	12529652	439.344	412.026
31)	L7 AR-1260-1	7.522	6.659	24237719	23769241	448.650	417.283
32)	L7 AR-1260-2	7.775	6.846	27514166	27759723	434.864	416.160
33)	L7 AR-1260-3	8.136	7.003	19144491	26365667	369.237	413.896
34)	L7 AR-1260-4	8.374	7.477	23039580	19730283	382.753	356.833
35)	L7 AR-1260-5	8.711	7.716	41014543	44904167	380.779	367.168

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

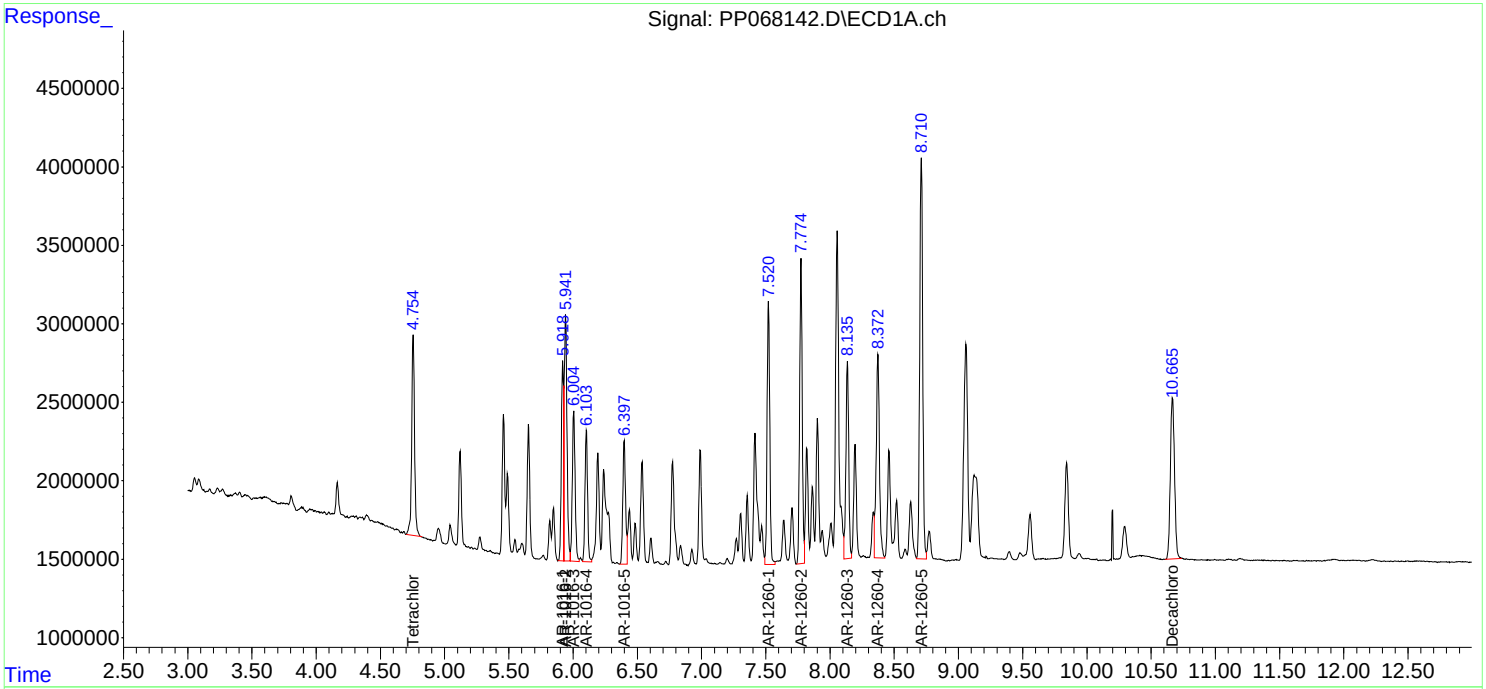
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP102224\
Data File : PP068142.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2024 19:12
Operator : YP\AJ
Sample : P4472-05MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

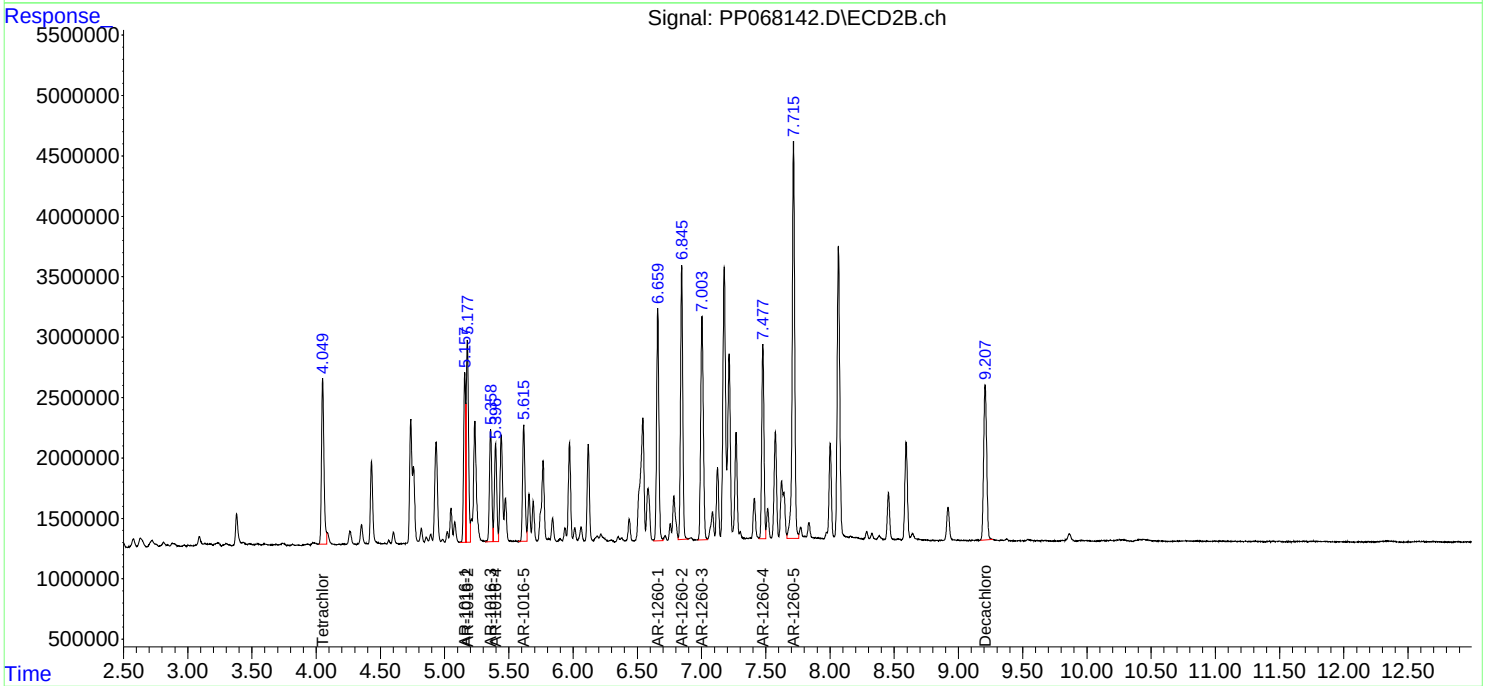
Instrument :
ECD_P
ClientSampleId :
BP-F-6MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 01:54:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP100824.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Oct 09 05:48:32 2024
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:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC250	PP067590.D	AR-1016-5 #2	yogesh	10/9/2024 8:24:09 AM	Ankita	10/9/2024 9:46:08	Peak Integrated by Software
AR1660ICC050	PP067591.D	AR-1016-5 #2	yogesh	10/9/2024 8:24:11 AM	Ankita	10/9/2024 9:46:09	Peak Integrated by Software
AR1242ICC500	PP067596.D	Tetrachloro-m-xylene	yogesh	10/9/2024 8:24:13 AM	Ankita	10/9/2024 9:46:11	Peak Integrated by Software
AR1242ICC050	PP067598.D	Tetrachloro-m-xylene	yogesh	10/9/2024 8:24:16 AM	Ankita	10/9/2024 9:46:12	Peak Integrated by Software
AR1254ICC750	PP067605.D	AR-1254-5	yogesh	10/9/2024 8:24:18 AM	Ankita	10/9/2024 9:46:13	Peak Integrated by Software
AR1254ICC500	PP067606.D	AR-1254-5	yogesh	10/9/2024 8:24:20 AM	Ankita	10/9/2024 9:46:15	Peak Integrated by Software
AR1254ICC050	PP067608.D	AR-1254-1	yogesh	10/9/2024 8:24:22 AM	Ankita	10/9/2024 9:48:32	Peak Integrated by Software
AR1254ICC050	PP067608.D	AR-1254-4 #2	yogesh	10/9/2024 8:24:22 AM	Ankita	10/9/2024 9:48:32	Peak Integrated by Software
AR1262ICC500	PP067609.D	AR-1262-3	yogesh	10/9/2024 8:24:24 AM	Ankita	10/9/2024 9:48:33	Peak Integrated by Software
AR1268ICC1000	PP067610.D	AR-1268-1	yogesh	10/9/2024 8:24:27 AM	Ankita	10/9/2024 9:48:35	Peak Integrated by Software
AR1268ICC1000	PP067610.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:27 AM	Ankita	10/9/2024 9:48:35	Peak Integrated by Software
AR1268ICC750	PP067611.D	AR-1268-1	yogesh	10/9/2024 8:24:29 AM	Ankita	10/9/2024 9:48:36	Peak Integrated by Software
AR1268ICC750	PP067611.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:29 AM	Ankita	10/9/2024 9:48:36	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC500	PP067612.D	AR-1268-1	yogesh	10/9/2024 8:24:31 AM	Ankita	10/9/2024 9:48:38	Peak Integrated by Software
AR1268ICC500	PP067612.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:31 AM	Ankita	10/9/2024 9:48:38	Peak Integrated by Software
AR1268ICC250	PP067613.D	AR-1268-1	yogesh	10/9/2024 8:24:33 AM	Ankita	10/9/2024 9:48:39	Peak Integrated by Software
AR1268ICC250	PP067613.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:33 AM	Ankita	10/9/2024 9:48:39	Peak Integrated by Software
AR1268ICC050	PP067614.D	AR-1268-1	yogesh	10/9/2024 8:24:35 AM	Ankita	10/9/2024 9:48:41	Peak Integrated by Software
AR1268ICC050	PP067614.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:35 AM	Ankita	10/9/2024 9:48:41	Peak Integrated by Software
AR1242ICV500	PP067616.D	AR-1242-1 #2	yogesh	10/9/2024 8:24:36 AM	Ankita	10/9/2024 9:48:43	Peak Integrated by Software
AR1242ICV500	PP067616.D	AR-1242-2 #2	yogesh	10/9/2024 8:24:36 AM	Ankita	10/9/2024 9:48:43	Peak Integrated by Software
AR1254ICV500	PP067618.D	AR-1254-4 #2	yogesh	10/9/2024 8:24:38 AM	Ankita	10/9/2024 9:48:44	Peak Integrated by Software
AR1254ICV500	PP067618.D	AR-1254-5	yogesh	10/9/2024 8:24:38 AM	Ankita	10/9/2024 9:48:44	Peak Integrated by Software
AR1268ICV500	PP067619.D	AR-1268-1	yogesh	10/9/2024 8:24:40 AM	Ankita	10/9/2024 9:48:46	Peak Integrated by Software
AR1268ICV500	PP067619.D	AR-1268-1 #2	yogesh	10/9/2024 8:24:40 AM	Ankita	10/9/2024 9:48:46	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp100824	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	pp102224	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PP068120.D	AR-1260-4	yogesh	10/23/2024 7:49:52 AM	Ankita	10/23/2024 9:10:54	Peak Integrated by Software
AR1242CCC500	PP068121.D	AR-1242-5	yogesh	10/23/2024 7:49:54 AM	Ankita	10/23/2024 9:10:56	Peak Integrated by Software
AR1254CCC500	PP068123.D	AR-1254-1	yogesh	10/23/2024 7:49:56 AM	Ankita	10/23/2024 9:10:58	Peak Integrated by Software
AR1254CCC500	PP068123.D	AR-1254-5	yogesh	10/23/2024 7:49:56 AM	Ankita	10/23/2024 9:10:58	Peak Integrated by Software
PB164310BS	PP068126.D	AR-1260-4	yogesh	10/23/2024 7:49:58 AM	Ankita	10/23/2024 9:10:59	Peak Integrated by Software
P4471-01	PP068132.D	Decachlorobiphenyl	yogesh	10/23/2024 7:50:06 AM	Ankita	10/23/2024 9:11:06	Peak Integrated by Software
AR1254CCC500	PP068138.D	AR-1254-1	yogesh	10/23/2024 7:50:09 AM	Ankita	10/23/2024 9:11:10	Peak Integrated by Software
P4472-05MSD	PP068142.D	Tetrachloro-m-xylene #2	yogesh	10/23/2024 7:50:11 AM	Ankita	10/23/2024 9:11:11	Peak Integrated by Software
AR1254CCC500	PP068148.D	AR-1254-1	yogesh	10/23/2024 7:50:13 AM	Ankita	10/23/2024 9:11:12	Peak Integrated by Software
AR1254CCC500	PP068148.D	AR-1254-5	yogesh	10/23/2024 7:50:13 AM	Ankita	10/23/2024 9:11:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	pp102324	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PP068154.D	AR-1254-1	yogesh	10/24/2024 8:28:50 AM	Ankita	10/24/2024 9:29:06	Peak Integrated by Software
AR1254CCC500	PP068154.D	AR-1254-4 #2	yogesh	10/24/2024 8:28:50 AM	Ankita	10/24/2024 9:29:06	Peak Integrated by Software
AR1254CCC500	PP068154.D	AR-1254-5	yogesh	10/24/2024 8:28:50 AM	Ankita	10/24/2024 9:29:06	Peak Integrated by Software
AR1254CCC500	PP068169.D	AR-1254-1	yogesh	10/24/2024 8:28:58 AM	Ankita	10/24/2024 9:29:13	Peak Integrated by Software
AR1254CCC500	PP068169.D	AR-1254-5	yogesh	10/24/2024 8:28:58 AM	Ankita	10/24/2024 9:29:13	Peak Integrated by Software
AR1254CCC500	PP068183.D	AR-1254-1	yogesh	10/24/2024 8:29:10 AM	Ankita	10/24/2024 9:29:24	Peak Integrated by Software
AR1254CCC500	PP068183.D	AR-1254-5	yogesh	10/24/2024 8:29:10 AM	Ankita	10/24/2024 9:29:24	Peak Integrated by Software

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 # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP067585.D	08 Oct 2024 15:58	YP\AJ	Ok
2	I.BLK	PP067586.D	08 Oct 2024 16:14	YP\AJ	Ok
3	AR1660ICC1000	PP067587.D	08 Oct 2024 16:30	YP\AJ	Ok
4	AR1660ICC750	PP067588.D	08 Oct 2024 16:46	YP\AJ	Ok
5	AR1660ICC500	PP067589.D	08 Oct 2024 17:02	YP\AJ	Ok
6	AR1660ICC250	PP067590.D	08 Oct 2024 17:19	YP\AJ	Ok,M
7	AR1660ICC050	PP067591.D	08 Oct 2024 17:35	YP\AJ	Ok,M
8	AR1221ICC500	PP067592.D	08 Oct 2024 17:51	YP\AJ	Ok
9	AR1232ICC500	PP067593.D	08 Oct 2024 18:07	YP\AJ	Ok
10	AR1242ICC1000	PP067594.D	08 Oct 2024 18:23	YP\AJ	Ok
11	AR1242ICC750	PP067595.D	08 Oct 2024 18:39	YP\AJ	Ok
12	AR1242ICC500	PP067596.D	08 Oct 2024 18:55	YP\AJ	Ok,M
13	AR1242ICC250	PP067597.D	08 Oct 2024 19:12	YP\AJ	Ok
14	AR1242ICC050	PP067598.D	08 Oct 2024 19:28	YP\AJ	Ok,M
15	AR1248ICC1000	PP067599.D	08 Oct 2024 19:44	YP\AJ	Ok
16	AR1248ICC750	PP067600.D	08 Oct 2024 20:00	YP\AJ	Ok
17	AR1248ICC500	PP067601.D	08 Oct 2024 20:16	YP\AJ	Ok
18	AR1248ICC250	PP067602.D	08 Oct 2024 20:32	YP\AJ	Ok
19	AR1248ICC050	PP067603.D	08 Oct 2024 20:49	YP\AJ	Ok
20	AR1254ICC1000	PP067604.D	08 Oct 2024 21:05	YP\AJ	Ok
21	AR1254ICC750	PP067605.D	08 Oct 2024 21:21	YP\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP067606.D	08 Oct 2024 21:37	YP\AJ	Ok,M
23	AR1254ICC250	PP067607.D	08 Oct 2024 21:53	YP\AJ	Ok
24	AR1254ICC050	PP067608.D	08 Oct 2024 22:09	YP\AJ	Ok,M
25	AR1262ICC500	PP067609.D	08 Oct 2024 22:25	YP\AJ	Ok,M
26	AR1268ICC1000	PP067610.D	08 Oct 2024 22:42	YP\AJ	Ok,M
27	AR1268ICC750	PP067611.D	08 Oct 2024 22:58	YP\AJ	Ok,M
28	AR1268ICC500	PP067612.D	08 Oct 2024 23:14	YP\AJ	Ok,M
29	AR1268ICC250	PP067613.D	08 Oct 2024 23:30	YP\AJ	Ok,M
30	AR1268ICC050	PP067614.D	08 Oct 2024 23:46	YP\AJ	Ok,M
31	PP100824ICV500	PP067615.D	09 Oct 2024 00:02	YP\AJ	Ok
32	AR1242ICV500	PP067616.D	09 Oct 2024 00:18	YP\AJ	Ok,M
33	AR1248ICV500	PP067617.D	09 Oct 2024 00:34	YP\AJ	Ok
34	AR1254ICV500	PP067618.D	09 Oct 2024 00:51	YP\AJ	Ok,M
35	AR1268ICV500	PP067619.D	09 Oct 2024 01:07	YP\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102224

Review By	yogesh	Review On	10/23/2024 7:50:29 AM		
Supervise By	Ankita	Supervise On	10/23/2024 9:11:30 AM		
SubDirectory	PP102224	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP068119.D	22 Oct 2024 10:34	YP\AJ	Ok
2	AR1660CCC500	PP068120.D	22 Oct 2024 11:13	YP\AJ	Ok,M
3	AR1242CCC500	PP068121.D	22 Oct 2024 11:29	YP\AJ	Ok,M
4	AR1248CCC500	PP068122.D	22 Oct 2024 11:45	YP\AJ	Ok
5	AR1254CCC500	PP068123.D	22 Oct 2024 12:01	YP\AJ	Ok,M
6	I.BLK	PP068124.D	22 Oct 2024 12:18	YP\AJ	Ok
7	PB164310BL	PP068125.D	22 Oct 2024 13:55	YP\AJ	Ok
8	PB164310BS	PP068126.D	22 Oct 2024 14:11	YP\AJ	Ok,M
9	P4467-01	PP068127.D	22 Oct 2024 14:27	YP\AJ	Ok
10	P4468-01	PP068128.D	22 Oct 2024 14:43	YP\AJ	Ok
11	P4468-03	PP068129.D	22 Oct 2024 14:59	YP\AJ	Ok,M
12	P4468-05	PP068130.D	22 Oct 2024 15:15	YP\AJ	Ok,M
13	P4470-01	PP068131.D	22 Oct 2024 15:31	YP\AJ	Ok,M
14	P4471-01	PP068132.D	22 Oct 2024 15:47	YP\AJ	Ok,M
15	P4471-02	PP068133.D	22 Oct 2024 16:03	YP\AJ	ReRun
16	P4472-01	PP068134.D	22 Oct 2024 16:19	YP\AJ	Ok,M
17	AR1660CCC500	PP068135.D	22 Oct 2024 17:19	YP\AJ	Ok
18	AR1242CCC500	PP068136.D	22 Oct 2024 17:35	YP\AJ	Ok
19	AR1248CCC500	PP068137.D	22 Oct 2024 17:51	YP\AJ	Ok
20	AR1254CCC500	PP068138.D	22 Oct 2024 18:07	YP\AJ	Ok,M
21	I.BLK	PP068139.D	22 Oct 2024 18:23	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102224

Review By	yogesh	Review On	10/23/2024 7:50:29 AM		
Supervise By	Ankita	Supervise On	10/23/2024 9:11:30 AM		
SubDirectory	PP102224	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4472-05	PP068140.D	22 Oct 2024 18:39	YP\AJ	Ok
23	P4472-05MS	PP068141.D	22 Oct 2024 18:55	YP\AJ	Ok
24	P4472-05MSD	PP068142.D	22 Oct 2024 19:12	YP\AJ	Ok,M
25	P4473-01	PP068143.D	22 Oct 2024 19:28	YP\AJ	Ok
26	P4474-01	PP068144.D	22 Oct 2024 19:44	YP\AJ	Ok
27	AR1660CCC500	PP068145.D	22 Oct 2024 20:43	YP\AJ	Ok
28	AR1242CCC500	PP068146.D	22 Oct 2024 20:59	YP\AJ	Ok
29	AR1248CCC500	PP068147.D	22 Oct 2024 21:15	YP\AJ	Ok
30	AR1254CCC500	PP068148.D	22 Oct 2024 21:31	YP\AJ	Ok,M
31	I.BLK	PP068149.D	22 Oct 2024 21:47	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102324

Review By	yogesh	Review On	10/24/2024 8:29:24 AM		
Supervise By	Ankita	Supervise On	10/24/2024 9:24:26 AM		
SubDirectory	PP102324	HP Acquire Method		HP Processing Method	pp100824

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
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP068150.D	23 Oct 2024 09:14	YP\AJ	Ok
2	AR1660CCC500	PP068151.D	23 Oct 2024 09:30	YP\AJ	Ok
3	AR1242CCC500	PP068152.D	23 Oct 2024 09:46	YP\AJ	Ok
4	AR1248CCC500	PP068153.D	23 Oct 2024 10:02	YP\AJ	Ok
5	AR1254CCC500	PP068154.D	23 Oct 2024 10:18	YP\AJ	Ok,M
6	I.BLK	PP068155.D	23 Oct 2024 10:34	YP\AJ	Ok
7	P4471-02	PP068156.D	23 Oct 2024 12:11	YP\AJ	Ok
8	PB164343BL	PP068157.D	23 Oct 2024 13:21	YP\AJ	Ok
9	PB164343BS	PP068158.D	23 Oct 2024 13:37	YP\AJ	Ok,M
10	P4485-01	PP068159.D	23 Oct 2024 13:54	YP\AJ	Ok
11	P4486-01	PP068160.D	23 Oct 2024 14:10	YP\AJ	Ok
12	P4486-01MS	PP068161.D	23 Oct 2024 14:26	YP\AJ	Ok,M
13	P4486-01MSD	PP068162.D	23 Oct 2024 14:42	YP\AJ	Ok,M
14	P4487-01	PP068163.D	23 Oct 2024 14:58	YP\AJ	Ok
15	P4487-05	PP068164.D	23 Oct 2024 15:14	YP\AJ	Ok
16	P4488-02	PP068165.D	23 Oct 2024 15:30	YP\AJ	Ok,M
17	AR1660CCC500	PP068166.D	23 Oct 2024 15:57	YP\AJ	Ok
18	AR1242CCC500	PP068167.D	23 Oct 2024 16:13	YP\AJ	Ok
19	AR1248CCC500	PP068168.D	23 Oct 2024 16:29	YP\AJ	Ok
20	AR1254CCC500	PP068169.D	23 Oct 2024 16:45	YP\AJ	Ok,M
21	I.BLK	PP068170.D	23 Oct 2024 17:01	YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102324

Review By	yogesh	Review On	10/24/2024 8:29:24 AM		
Supervise By	Ankita	Supervise On	10/24/2024 9:24:26 AM		
SubDirectory	PP102324	HP Acquire Method		HP Processing Method	pp100824

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
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4488-01	PP068171.D	23 Oct 2024 17:17	YP\AJ	Ok,M
23	P4488-09	PP068172.D	23 Oct 2024 17:33	YP\AJ	Ok
24	P4488-10	PP068173.D	23 Oct 2024 17:50	YP\AJ	Ok
25	P4489-01	PP068174.D	23 Oct 2024 18:06	YP\AJ	Ok,M
26	PB164342BL	PP068175.D	23 Oct 2024 18:22	YP\AJ	Ok
27	PB164342BS	PP068176.D	23 Oct 2024 18:38	YP\AJ	Ok,M
28	PB164342BSD	PP068177.D	23 Oct 2024 18:54	YP\AJ	Ok,M
29	P4485-03	PP068178.D	23 Oct 2024 19:10	YP\AJ	ReRun
30	P4460-06	PP068179.D	23 Oct 2024 19:26	YP\AJ	Ok
31	AR1660CCC500	PP068180.D	23 Oct 2024 20:04	YP\AJ	Ok
32	AR1242CCC500	PP068181.D	23 Oct 2024 20:20	YP\AJ	Ok
33	AR1248CCC500	PP068182.D	23 Oct 2024 20:36	YP\AJ	Ok
34	AR1254CCC500	PP068183.D	23 Oct 2024 20:52	YP\AJ	Ok,M
35	I.BLK	PP068184.D	23 Oct 2024 21:08	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP067585.D	08 Oct 2024 15:58		YP\AJ	Ok
2	I.BLK	I.BLK	PP067586.D	08 Oct 2024 16:14		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP067587.D	08 Oct 2024 16:30		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP067588.D	08 Oct 2024 16:46		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP067589.D	08 Oct 2024 17:02		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP067590.D	08 Oct 2024 17:19		YP\AJ	Ok,M
7	AR1660ICC050	AR1660ICC050	PP067591.D	08 Oct 2024 17:35		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP067592.D	08 Oct 2024 17:51		YP\AJ	Ok
9	AR1232ICC500	AR1232ICC500	PP067593.D	08 Oct 2024 18:07		YP\AJ	Ok
10	AR1242ICC1000	AR1242ICC1000	PP067594.D	08 Oct 2024 18:23		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP067595.D	08 Oct 2024 18:39		YP\AJ	Ok
12	AR1242ICC500	AR1242ICC500	PP067596.D	08 Oct 2024 18:55		YP\AJ	Ok,M
13	AR1242ICC250	AR1242ICC250	PP067597.D	08 Oct 2024 19:12		YP\AJ	Ok
14	AR1242ICC050	AR1242ICC050	PP067598.D	08 Oct 2024 19:28		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP067599.D	08 Oct 2024 19:44		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP067600.D	08 Oct 2024 20:00		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP067601.D	08 Oct 2024 20:16		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP067602.D	08 Oct 2024 20:32		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP100824

Review By	yogesh	Review On	10/9/2024 8:24:57 AM		
Supervise By	Ankita	Supervise On	10/9/2024 9:49:08 AM		
SubDirectory	PP100824	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP067603.D	08 Oct 2024 20:49		YP\AJ	Ok
20	AR1254ICC1000	AR1254ICC1000	PP067604.D	08 Oct 2024 21:05		YP\AJ	Ok
21	AR1254ICC750	AR1254ICC750	PP067605.D	08 Oct 2024 21:21		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP067606.D	08 Oct 2024 21:37		YP\AJ	Ok,M
23	AR1254ICC250	AR1254ICC250	PP067607.D	08 Oct 2024 21:53		YP\AJ	Ok
24	AR1254ICC050	AR1254ICC050	PP067608.D	08 Oct 2024 22:09		YP\AJ	Ok,M
25	AR1262ICC500	AR1262ICC500	PP067609.D	08 Oct 2024 22:25		YP\AJ	Ok,M
26	AR1268ICC1000	AR1268ICC1000	PP067610.D	08 Oct 2024 22:42		YP\AJ	Ok,M
27	AR1268ICC750	AR1268ICC750	PP067611.D	08 Oct 2024 22:58		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP067612.D	08 Oct 2024 23:14		YP\AJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PP067613.D	08 Oct 2024 23:30		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP067614.D	08 Oct 2024 23:46		YP\AJ	Ok,M
31	PP100824ICV500	ICVPP100824	PP067615.D	09 Oct 2024 00:02		YP\AJ	Ok
32	AR1242ICV500	ICVPP100824	PP067616.D	09 Oct 2024 00:18		YP\AJ	Ok,M
33	AR1248ICV500	ICVPP100824	PP067617.D	09 Oct 2024 00:34		YP\AJ	Ok
34	AR1254ICV500	ICVPP100824	PP067618.D	09 Oct 2024 00:51		YP\AJ	Ok,M
35	AR1268ICV500	ICVPP100824	PP067619.D	09 Oct 2024 01:07		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102224

Review By	yogesh	Review On	10/23/2024 7:50:29 AM		
Supervise By	Ankita	Supervise On	10/23/2024 9:11:30 AM		
SubDirectory	PP102224	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP068119.D	22 Oct 2024 10:34		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP068120.D	22 Oct 2024 11:13		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP068121.D	22 Oct 2024 11:29		YP\AJ	Ok,M
4	AR1248CCC500	AR1248CCC500	PP068122.D	22 Oct 2024 11:45	Comp#2 low in 1st column	YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP068123.D	22 Oct 2024 12:01		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP068124.D	22 Oct 2024 12:18		YP\AJ	Ok
7	PB164310BL	PB164310BL	PP068125.D	22 Oct 2024 13:55		YP\AJ	Ok
8	PB164310BS	PB164310BS	PP068126.D	22 Oct 2024 14:11		YP\AJ	Ok,M
9	P4467-01	TP-1	PP068127.D	22 Oct 2024 14:27		YP\AJ	Ok
10	P4468-01	ETGI-331	PP068128.D	22 Oct 2024 14:43		YP\AJ	Ok
11	P4468-03	ETGI-329	PP068129.D	22 Oct 2024 14:59	AR1254 Hit	YP\AJ	Ok,M
12	P4468-05	ETGI-345	PP068130.D	22 Oct 2024 15:15	AR1254 Hit	YP\AJ	Ok,M
13	P4470-01	CL-01-102124	PP068131.D	22 Oct 2024 15:31		YP\AJ	Ok,M
14	P4471-01	B-180-SB01	PP068132.D	22 Oct 2024 15:47		YP\AJ	Ok,M
15	P4471-02	B-180-SB02	PP068133.D	22 Oct 2024 16:03	DCB low in both column	YP\AJ	ReRun
16	P4472-01	BP-F-28	PP068134.D	22 Oct 2024 16:19		YP\AJ	Ok,M
17	AR1660CCC500	AR1660CCC500	PP068135.D	22 Oct 2024 17:19		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP068136.D	22 Oct 2024 17:35		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102224

Review By	yogesh	Review On	10/23/2024 7:50:29 AM		
Supervise By	Ankita	Supervise On	10/23/2024 9:11:30 AM		
SubDirectory	PP102224	HP Acquire Method		HP Processing Method	PP100824

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,PP23792
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PP068137.D	22 Oct 2024 17:51		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP068138.D	22 Oct 2024 18:07		YP\AJ	Ok,M
21	I.BLK	I.BLK	PP068139.D	22 Oct 2024 18:23		YP\AJ	Ok
22	P4472-05	BP-F-6	PP068140.D	22 Oct 2024 18:39		YP\AJ	Ok
23	P4472-05MS	BP-F-6MS	PP068141.D	22 Oct 2024 18:55		YP\AJ	Ok
24	P4472-05MSD	BP-F-6MSD	PP068142.D	22 Oct 2024 19:12		YP\AJ	Ok,M
25	P4473-01	TS-1	PP068143.D	22 Oct 2024 19:28		YP\AJ	Ok
26	P4474-01	TS-2	PP068144.D	22 Oct 2024 19:44		YP\AJ	Ok
27	AR1660CCC500	AR1660CCC500	PP068145.D	22 Oct 2024 20:43		YP\AJ	Ok
28	AR1242CCC500	AR1242CCC500	PP068146.D	22 Oct 2024 20:59		YP\AJ	Ok
29	AR1248CCC500	AR1248CCC500	PP068147.D	22 Oct 2024 21:15		YP\AJ	Ok
30	AR1254CCC500	AR1254CCC500	PP068148.D	22 Oct 2024 21:31		YP\AJ	Ok,M
31	I.BLK	I.BLK	PP068149.D	22 Oct 2024 21:47		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP
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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102324

Review By	yogesh	Review On	10/24/2024 8:29:24 AM		
Supervise By	Ankita	Supervise On	10/24/2024 9:24:26 AM		
SubDirectory	PP102324	HP Acquire Method		HP Processing Method	pp100824

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
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP068150.D	23 Oct 2024 09:14		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP068151.D	23 Oct 2024 09:30		YP\AJ	Ok
3	AR1242CCC500	AR1242CCC500	PP068152.D	23 Oct 2024 09:46		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP068153.D	23 Oct 2024 10:02		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP068154.D	23 Oct 2024 10:18		YP\AJ	Ok,M
6	I.BLK	I.BLK	PP068155.D	23 Oct 2024 10:34		YP\AJ	Ok
7	P4471-02	B-180-SB02	PP068156.D	23 Oct 2024 12:11		YP\AJ	Ok
8	PB164343BL	PB164343BL	PP068157.D	23 Oct 2024 13:21		YP\AJ	Ok
9	PB164343BS	PB164343BS	PP068158.D	23 Oct 2024 13:37		YP\AJ	Ok,M
10	P4485-01	D20241001-01-04	PP068159.D	23 Oct 2024 13:54		YP\AJ	Ok
11	P4486-01	EO-03-102224	PP068160.D	23 Oct 2024 14:10		YP\AJ	Ok
12	P4486-01MS	EO-03-102224MS	PP068161.D	23 Oct 2024 14:26		YP\AJ	Ok,M
13	P4486-01MSD	EO-03-102224MSD	PP068162.D	23 Oct 2024 14:42		YP\AJ	Ok,M
14	P4487-01	BP-B5	PP068163.D	23 Oct 2024 14:58		YP\AJ	Ok
15	P4487-05	BP-F27	PP068164.D	23 Oct 2024 15:14		YP\AJ	Ok
16	P4488-02	1017-B	PP068165.D	23 Oct 2024 15:30		YP\AJ	Ok,M
17	AR1660CCC500	AR1660CCC500	PP068166.D	23 Oct 2024 15:57		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP068167.D	23 Oct 2024 16:13		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP102324

Review By	yogesh	Review On	10/24/2024 8:29:24 AM		
Supervise By	Ankita	Supervise On	10/24/2024 9:24:26 AM		
SubDirectory	PP102324	HP Acquire Method		HP Processing Method	pp100824

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
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PP068168.D	23 Oct 2024 16:29		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP068169.D	23 Oct 2024 16:45		YP\AJ	Ok,M
21	I.BLK	I.BLK	PP068170.D	23 Oct 2024 17:01		YP\AJ	Ok
22	P4488-01	OIL-1	PP068171.D	23 Oct 2024 17:17	DCB high in 1st column.	YP\AJ	Ok,M
23	P4488-09	HCC-1	PP068172.D	23 Oct 2024 17:33		YP\AJ	Ok
24	P4488-10	HCC-2	PP068173.D	23 Oct 2024 17:50		YP\AJ	Ok
25	P4489-01	RT-2675	PP068174.D	23 Oct 2024 18:06	AR1254 Hit	YP\AJ	Ok,M
26	PB164342BL	PB164342BL	PP068175.D	23 Oct 2024 18:22		YP\AJ	Ok
27	PB164342BS	PB164342BS	PP068176.D	23 Oct 2024 18:38		YP\AJ	Ok,M
28	PB164342BSD	PB164342BSD	PP068177.D	23 Oct 2024 18:54		YP\AJ	Ok,M
29	P4485-03	D20241001-02-03	PP068178.D	23 Oct 2024 19:10	DCB low in both column	YP\AJ	ReRun
30	P4460-06	WB-303-SW	PP068179.D	23 Oct 2024 19:26		YP\AJ	Ok
31	AR1660CCC500	AR1660CCC500	PP068180.D	23 Oct 2024 20:04		YP\AJ	Ok
32	AR1242CCC500	AR1242CCC500	PP068181.D	23 Oct 2024 20:20		YP\AJ	Ok
33	AR1248CCC500	AR1248CCC500	PP068182.D	23 Oct 2024 20:36		YP\AJ	Ok
34	AR1254CCC500	AR1254CCC500	PP068183.D	23 Oct 2024 20:52		YP\AJ	Ok,M
35	I.BLK	I.BLK	PP068184.D	23 Oct 2024 21:08		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB164310

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	10/22/2024
Matrix :	Solid			**Extraction Start Time :**	10:10
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/22/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:10
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**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	5000 PPB	PP23640
Surrogate	1.0ML	200 PPB	PP23858
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	EP2539
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Hexane	N/A	E3819
H2SO4 1:1	N/A	EP2548
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 Vial lot# 03-40 BTS721.

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
10/22/24	RP (Ext. lab)	R. Patel/PLB Lab
13:15	**Preparation Group**	**Analysis Group**

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EXTRACTION LOGPAGE

PrepBatch ID : PB164310

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 10/22/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164310BL	ABLK310	PCB	30.01	N/A	ritesh	Evelyn	10			U7-1
PB164310BS	ALCS310	PCB	30.02	N/A	ritesh	Evelyn	10			2
P4467-01	TP-1	PCB	30.06	N/A	ritesh	Evelyn	10	E		3
P4468-01	ETGI-331	PCB	30.09	N/A	ritesh	Evelyn	10		Concrete	4
P4468-03	ETGI-329	PCB	30.05	N/A	ritesh	Evelyn	10	E		5
P4468-05	ETGI-345	PCB	30.03	N/A	ritesh	Evelyn	10	E		6
P4470-01	CL-01-102124	PCB	30.05	N/A	ritesh	Evelyn	10	E		U1-1
P4471-01	B-180-SB01	PCB	30.02	N/A	ritesh	Evelyn	10	E		2
P4471-02	B-180-SB02	PCB	30.04	N/A	ritesh	Evelyn	10	E		3
P4472-01	BP-F-28	PCB	30.08	N/A	ritesh	Evelyn	10	E		4
P4472-05	BP-F-6	PCB	30.07	N/A	ritesh	Evelyn	10	E		5
P4472-05MS	BP-F-6MS	PCB	30.03	N/A	ritesh	Evelyn	10	E		6
P4472-05MSD	BP-F-6MSD	PCB	30.04	N/A	ritesh	Evelyn	10	E		U5-1
P4473-01	TS-1	PCB	30.09	N/A	ritesh	Evelyn	10	C		2
P4474-01	TS-2	PCB	30.05	N/A	ritesh	Evelyn	10	B		3

* **Extracts relinquished on the same date as received.**

10/22/24

P4471 10/21/24 10:20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4467 **WorkList ID :** 184649 **Department :** Extraction **Date :** 10-22-2024 08:21:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4467-01	TP-1	Solid	PCB	Cool 4 deg C	PSEG03	K41	10/21/2024	8082A
P4468-01	ETGI-331	Solid	PCB	Cool 4 deg C	PSEG03	K51	10/21/2024	8082A
P4468-03	ETGI-329	Solid	PCB	Cool 4 deg C	PSEG03	K51	10/21/2024	8082A
P4468-05	ETGI-345	Solid	PCB	Cool 4 deg C	PSEG03	K51	10/21/2024	8082A
P4470-01	CL-01-102124	Solid	PCB	Cool 4 deg C	PSEG05	K51	10/21/2024	8082A
P4471-01	B-180-SB01	Solid	PCB	Cool 4 deg C	PORT06	J61	10/19/2024	8082A
P4471-02	B-180-SB02	Solid	PCB	Cool 4 deg C	PORT06	J61	10/20/2024	8082A
P4472-01	BP-F-28	Solid	PCB	Cool 4 deg C	PSEG03	K51	10/21/2024	8082A
P4472-05	BP-F-6	Solid	PCB	Cool 4 deg C	PSEG03	K51	10/21/2024	8082A
P4473-01	TS-1	Solid	PCB	Cool 4 deg C	YANN01	K61	10/18/2024	8082A
P4474-01	TS-2	Solid	PCB	Cool 4 deg C	YANN01	K61	10/18/2024	8082A

452 of 742

Date/Time 10/22/24 10:05
Raw Sample Received by: RJ (Eurofins)
Raw Sample Relinquished by: SM

Date/Time 10/22/24 10:35
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Eurofins)

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LAB CHRONICLE

OrderID:	P4471	**OrderDate:**	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	**B-180-SB01**	**SOIL**			**10/19/24**			**10/21/24**
			PCB	8082A		10/22/24	10/22/24	
			EPH	NJEPH		10/22/24	10/23/24	
P4471-02	**B-180-SB02**	**SOIL**			**10/20/24**			**10/21/24**
			PCB	8082A		10/22/24	10/23/24	
			EPH	NJEPH		10/22/24	10/23/24	

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/22/24 09:40	10/23/24 6:40	PB164309

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.46	U	1	0.46	1.21	mg/kg	FC067494.D
Aliphatic C12-C16	Aliphatic C12-C16	0.48	J	1	0.29	0.81	mg/kg	FC067494.D
Aliphatic C16-C21	Aliphatic C16-C21	0.37	J	1	0.36	1.21	mg/kg	FC067494.D
Aliphatic C21-C28	Aliphatic C21-C28	1.06	J	1	0.97	1.61	mg/kg	FC067494.D
Aliphatic C28-C40	Aliphatic C28-C40	7.75		1	2.17	2.41	mg/kg	FC067494.D
Aromatic C10-C12	Aromatic C10-C12	0.36	U	1	0.36	0.81	mg/kg	FD048557.D
Aromatic C12-C16	Aromatic C12-C16	0.41	J	1	0.41	1.21	mg/kg	FD048557.D
Aromatic C16-C21	Aromatic C16-C21	5.76		1	1.16	2.01	mg/kg	FD048557.D
Aromatic C21-C36	Aromatic C21-C36	3.55		1	2.41	3.22	mg/kg	FD048557.D
Total AliphaticEPH	Total AliphaticEPH	9.67			4.25	7.25	mg/kg	
Total AromaticEPH	Total AromaticEPH	9.72			4.34	7.25	mg/kg	
Total EPH	Total EPH	19.4			8.59	14.5	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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067494.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.46	U	0.46	1.21	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.48	J	0.29	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.37	J	0.36	1.21	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.06	J	0.97	1.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		7.75		2.17	2.41	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		38.4		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:	P4471-01	Acq On:	23 Oct 2024 06:40
Client Sample ID:	B-180-SB01	Operator:	YP/AJ
Data file:	FC067494.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.455	454334	3.54	300	ug/ml
Aliphatic C12-C16	6.456	9.845	785075	5.995	200	ug/ml
Aliphatic C16-C21	9.846	13.203	610593	4.644	300	ug/ml
Aliphatic C21-C28	13.204	16.857	1675885	13.214	400	ug/ml
Aliphatic C28-C40	16.858	21.701	10130489	96.283	600	ug/ml
Aliphatic EPH	3.175	21.701	13656376	123.676		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.936	12.936	4348291	38.41		ug/ml
Aliphatic C9-C28	3.175	16.857	3525887	27.393	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048557.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.36	U	0.36	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.41	J	0.41	1.21	mg/kg
Aromatic C16-C21	Aromatic C16-C21	5.76		1.16	2.01	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.55		2.41	3.22	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.4		40 - 140	91%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.0		40 - 140	96%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.1		40 - 140	78%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4471-01	Acq On:	23 Oct 2024 06:40
Client Sample ID:	B-180-SB01	Operator:	YP/AJ
Data file:	FD048557.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.096	5.814	494345	2.731	200	ug/ml
Aromatic C12-C16	5.815	8.420	973630	5.124	300	ug/ml
Aromatic C16-C21	8.421	12.681	12793379	71.58	500	ug/ml
Aromatic C21-C36	12.682	18.086	7295096	44.116	800	ug/ml
Aromatic EPH	4.096	18.086	21556450	123.552		ug/ml
ortho-Terphenyl (SURR)	11.260	11.260	7187892	39.07		ug/ml
2-Bromonaphthalene (SURR)	7.375	7.375	7508532	45.35		ug/ml
2-Flurobiphenyl (SURR)	8.224	8.224	4973975	47.96		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	49.2
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
10/22/24 09:40	10/23/24 7:17	PB164309

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.74	J	1	0.77	2.03	mg/kg	FC067495.D
Aliphatic C12-C16	Aliphatic C12-C16	0.80	J	1	0.49	1.35	mg/kg	FC067495.D
Aliphatic C16-C21	Aliphatic C16-C21	4.37		1	0.61	2.03	mg/kg	FC067495.D
Aliphatic C21-C28	Aliphatic C21-C28	7.17		1	1.62	2.70	mg/kg	FC067495.D
Aliphatic C28-C40	Aliphatic C28-C40	8.61		1	3.65	4.06	mg/kg	FC067495.D
Aromatic C10-C12	Aromatic C10-C12	0.61	U	1	0.61	1.35	mg/kg	FD048558.D
Aromatic C12-C16	Aromatic C12-C16	0.69	U	1	0.69	2.03	mg/kg	FD048558.D
Aromatic C16-C21	Aromatic C16-C21	5.41		1	1.95	3.38	mg/kg	FD048558.D
Aromatic C21-C36	Aromatic C21-C36	14.6		1	4.06	5.41	mg/kg	FD048558.D
Total AliphaticEPH	Total AliphaticEPH	22.7			7.14	12.2	mg/kg	
Total AromaticEPH	Total AromaticEPH	20.0			7.31	12.2	mg/kg	
Total EPH	Total EPH	42.7			14.4	24.3	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:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	49.2
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
FC067495.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	1.74	J	0.77	2.03	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.80	J	0.49	1.35	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	4.37		0.61	2.03	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	7.17		1.62	2.70	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.61		3.65	4.06	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.8		40 - 140	46%	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:	P4471-02	Acq On:	23 Oct 2024 07:17
Client Sample ID:	B-180-SB02	Operator:	YP/AJ
Data file:	FC067495.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	3.175	6.455	1649690	12.853	300	ug/ml
Aliphatic C12-C16	6.456	9.845	772483	5.899	200	ug/ml
Aliphatic C16-C21	9.846	13.203	4248740	32.316	300	ug/ml
Aliphatic C21-C28	13.204	16.857	6726849	53.041	400	ug/ml
Aliphatic C28-C40	16.858	21.701	6701017	63.688	600	ug/ml
Aliphatic EPH	3.175	21.701	20098779	167.796		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.934	12.934	2582219	22.81		ug/ml
Aliphatic C9-C28	3.175	16.857	13397762	104.109	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	49.2
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
FD048558.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.61	U	0.61	1.35	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.69	U	0.69	2.03	mg/kg
Aromatic C16-C21	Aromatic C16-C21	5.41		1.95	3.38	mg/kg
Aromatic C21-C36	Aromatic C21-C36	14.6		4.06	5.41	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.3		40 - 140	85%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	45.2		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	21.1		40 - 140	42%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4471-02	Acq On:	23 Oct 2024 07:17
Client Sample ID:	B-180-SB02	Operator:	YP/AJ
Data file:	FD048558.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	4.096	5.814	746153	4.123	200	ug/ml
Aromatic C12-C16	5.815	8.420	830222	4.37	300	ug/ml
Aromatic C16-C21	8.421	12.681	7153000	40.022	500	ug/ml
Aromatic C21-C36	12.682	18.086	17797857	107.63	800	ug/ml
Aromatic EPH	4.096	18.086	26527232	156.145		ug/ml
ortho-Terphenyl (SURR)	11.257	11.257	3878838	21.08		ug/ml
2-Bromonaphthalene (SURR)	7.374	7.374	7008961	42.33		ug/ml
2-Flurobiphenyl (SURR)	8.224	8.224	4682999	45.16		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4471 SAS No.: P4471 SDG No.: P4471

Run Number: FC102224AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-303-BOTMS	62			0
WB-303-BOTMSD	63			0
B-180-SB01	77			0
B-180-SB02	46			0
PB164309BL	69			0
PB164309BS	65			0
PB164309BSD	68			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.: P4471 SAS No.: P4471 SDG No.: P4471

Run Number: FD102224AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-303-BOTMS	96	98	67	0
WB-303-BOTMSD	95	97	66	0
B-180-SB01	91	96	78	0
B-180-SB02	85	90	42	0
PB164309BL	93	83	81	0
PB164309BS	111	118	91	0
PB164309BSD	110	118	91	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

	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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : P4460-03MS **Datafile:** FC067492.D

Client ID : WB-303-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	12.5	5.73	13.4	62		(40-140)
Aliphatic C12-C16	8.3	43.9	52.6	105		(40-140)
Aliphatic C16-C21	12.5	2.34	20.0	141	*	(40-140)
Aliphatic C21-C28	16.6	7.39	32.0	148	*	(40-140)
Aliphatic C28-C40	24.9	3.01	33.3	121		(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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : P4460-03MSD **Datafile:** FC067493.D

Client ID : WB-303-BOTMSD

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	12.5	5.73	13.4	62		0 |	(40-140)	25
Aliphatic C12-C16	8.3	43.9	52.0	98		7.2 |	(40-140)	25
Aliphatic C16-C21	12.5	2.34	19.1	134		5.09 |	(40-140)	25
Aliphatic C21-C28	16.6	7.39	30.7	140	*	5.56 |	(40-140)	25
Aliphatic C28-C40	24.9	3.01	30.7	111		8.62 |	(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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : P4460-03MS **Datafile:** FD048555.D

Client ID : WB-303-BOTMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	8.3	6.30	12.6	76		(40-140)
Aromatic C12-C16	12.5	6.32	19.1	102		(40-140)
Aromatic C16-C21	20.8	3.86	25.5	104		(40-140)
Aromatic C21-C36	33.2	6.83	42.2	106		(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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : P4460-03MSD **Datafile:** FD048556.D

Client ID : WB-303-BOTMSD

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	8.3	6.30	12.6	76		0 |	(40-140)	25
Aromatic C12-C16	12.5	6.32	19.2	103		0.98 |	(40-140)	25
Aromatic C16-C21	20.8	3.86	25.3	103		0.97 |	(40-140)	25
Aromatic C21-C36	33.2	6.83	41.5	104		1.9 |	(40-140)	25

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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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : PB164309BS **Datafile:** FC067486.D

Client ID : PB164309BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.99	60		(40-140)
Aliphatic C12-C16	6.7	5.14	77		(40-140)
Aliphatic C16-C21	10	8.64	86		(40-140)
Aliphatic C21-C28	13.3	11.7	88		(40-140)
Aliphatic C28-C40	20.0	21.2	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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : PB164309BSD **Datafile:** FC067487.D

Client ID : PB164309BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10.0	5.96	60		0.636| (40-140)	50
Aliphatic C12-C16	6.7	5.14	77		0.0962|(40-140)	50
Aliphatic C16-C21	10.0	8.65	86		0.03| (40-140)	50
Aliphatic C21-C28	13.3	11.8	88		0.82| (40-140)	50
Aliphatic C28-C40	20.0	21.4	107		0.97| (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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : PB164309BS **Datafile:** FD048549.D

Client ID : PB164309BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	5.58	84		(40-140)
Aromatic C12-C16	10	8.88	89		(40-140)
Aromatic C16-C21	16.7	18.1	108		(40-140)
Aromatic C21-C36	26.6	27.4	102		(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:** P4471 **SAS No :** P4471 **SDG No:** P4471

Sample No : PB164309BSD **Datafile:** FD048550.D

Client ID : PB164309BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	5.56	83		0.445| (40-140)	50
Aromatic C12-C16	10.0	8.89	89		0.03| (40-140)	50
Aromatic C16-C21	16.7	18.1	108		0.58| (40-140)	50
Aromatic C21-C36	26.7	27.4	102		0.76| (40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164309BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Instrument ID: FID_C Lab Sample ID: PB164309BL

Matrix: (soil/water) Solid Date Extracted: 10/22/2024 9:40:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164309BS	PB164309BS
PB164309BSD	PB164309BSD
WB-303-BOTMS	P4460-03MS
WB-303-BOTMSD	P4460-03MSD
B-180-SB01	P4471-01
B-180-SB02	P4471-02

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164309BL	SDG No.:	P4471
Lab Sample ID:	PB164309BL	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
10/22/24 09:40	10/23/24 1:18	PB164309

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	FC067485.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067485.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067485.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067485.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067485.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048548.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048548.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048548.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD048548.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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164309BL	SDG No.:	P4471
Lab Sample ID:	PB164309BL	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
FC067485.D	1	10/22/24	10/23/24	PB164309

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)		34.5		40 - 140	69%	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:	PB164309BL	Acq On:	23 Oct 2024 01:18
Client Sample ID:	PB164309BL	Operator:	YP/AJ
Data file:	FC067485.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	3.175	6.455	0	0	300	ug/ml
Aliphatic C12-C16	6.456	9.845	0	0	200	ug/ml
Aliphatic C16-C21	9.846	13.203	0	0	300	ug/ml
Aliphatic C21-C28	13.204	16.857	0	0	400	ug/ml
Aliphatic C28-C40	16.858	21.701	0	0	600	ug/ml
Aliphatic EPH	3.175	21.701	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.937	12.937	3901025	34.46		ug/ml
Aliphatic C9-C28	3.175	16.857	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164309BL	SDG No.:	P4471
Lab Sample ID:	PB164309BL	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
FD048548.D	1	10/22/24	10/23/24	PB164309

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)		46.5		40 - 140	93%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		41.3		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		40.5		40 - 140	81%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164309BL	Acq On:	23 Oct 2024 01:18
Client Sample ID:	PB164309BL	Operator:	YP/AJ
Data file:	FD048548.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	4.096	5.814	0	0	200	ug/ml
Aromatic C12-C16	5.815	8.420	0	0	300	ug/ml
Aromatic C16-C21	8.421	12.681	0	0	500	ug/ml
Aromatic C21-C36	12.682	18.086	0	0	800	ug/ml
Aromatic EPH	4.096	18.086	0	0		ug/ml
ortho-Terphenyl (SURR)	11.259	11.259	7455289	40.52		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	7693093	46.46		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	4279022	41.26		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164309BS	SDG No.:	P4471
Lab Sample ID:	PB164309BS	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
10/22/24 09:40	10/23/24 1:53	PB164309

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.99		1	0.38	1.00	mg/kg	FC067486.D
Aliphatic C12-C16	Aliphatic C12-C16	5.14		1	0.24	0.67	mg/kg	FC067486.D
Aliphatic C16-C21	Aliphatic C16-C21	8.64		1	0.30	1.00	mg/kg	FC067486.D
Aliphatic C21-C28	Aliphatic C21-C28	11.7		1	0.80	1.33	mg/kg	FC067486.D
Aliphatic C28-C40	Aliphatic C28-C40	21.2		1	1.80	2.00	mg/kg	FC067486.D
Aromatic C10-C12	Aromatic C10-C12	5.58		1	0.30	0.67	mg/kg	FD048549.D
Aromatic C12-C16	Aromatic C12-C16	8.88		1	0.34	1.00	mg/kg	FD048549.D
Aromatic C16-C21	Aromatic C16-C21	18.1		1	0.96	1.67	mg/kg	FD048549.D
Aromatic C21-C36	Aromatic C21-C36	27.4		1	2.00	2.66	mg/kg	FD048549.D
Total AliphaticEPH	Total AliphaticEPH	52.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	60.0			3.60	6.00	mg/kg	
Total EPH	Total EPH	113			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 2024	Date Received:	
Client Sample ID:	PB164309BS	SDG No.:	P4471
Lab Sample ID:	PB164309BS	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
FC067486.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.99		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		5.14		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		8.64		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		11.7		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		21.2		1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		32.6		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:	PB164309BS	Acq On:	23 Oct 2024 01:53
Client Sample ID:	PB164309BS	Operator:	YP/AJ
Data file:	FC067486.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	3.175	6.455	11537941	89.891	300	ug/ml
Aliphatic C12-C16	6.456	9.845	10110452	77.204	200	ug/ml
Aliphatic C16-C21	9.846	13.203	17054429	129.715	300	ug/ml
Aliphatic C21-C28	13.204	16.857	22350514	176.233	400	ug/ml
Aliphatic C28-C40	16.858	21.701	33507080	318.46	600	ug/ml
Aliphatic EPH	3.175	21.701	94560416	791.504		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.936	12.936	3694096	32.64		ug/ml
Aliphatic C9-C28	3.175	16.857	61053336	473.043	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164309BS	SDG No.:	P4471
Lab Sample ID:	PB164309BS	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
FD048549.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.58		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.88		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.1		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	27.4		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.3		40 - 140	111%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.8		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.5		40 - 140	91%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164309BS	Acq On:	23 Oct 2024 01:53
Client Sample ID:	PB164309BS	Operator:	YP/AJ
Data file:	FD048549.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	4.096	5.814	15164647	83.79	200	ug/ml
Aromatic C12-C16	5.815	8.420	25335084	133.346	300	ug/ml
Aromatic C16-C21	8.421	12.681	48665677	272.289	500	ug/ml
Aromatic C21-C36	12.682	18.086	68020061	411.343	800	ug/ml
Aromatic EPH	4.096	18.086	157185469	900.768		ug/ml
2-Bromonaphthalene (SURR)	7.375	7.375	9156141	55.3		ug/ml
2-Flurobiphenyl (SURR)	8.226	8.226	6092899	58.75		ug/ml
ortho-Terphenyl (SURR)	11.262	11.262	8373445	45.51		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164309BSD	SDG No.:	P4471
Lab Sample ID:	PB164309BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/22/24 09:40	10/23/24 2:29	PB164309

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.96		1	0.38	1.00	mg/kg	FC067487.D
Aliphatic C12-C16	Aliphatic C12-C16	5.14		1	0.24	0.67	mg/kg	FC067487.D
Aliphatic C16-C21	Aliphatic C16-C21	8.65		1	0.30	1.00	mg/kg	FC067487.D
Aliphatic C21-C28	Aliphatic C21-C28	11.8		1	0.80	1.33	mg/kg	FC067487.D
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.80	2.00	mg/kg	FC067487.D
Aromatic C10-C12	Aromatic C10-C12	5.56		1	0.30	0.67	mg/kg	FD048550.D
Aromatic C12-C16	Aromatic C12-C16	8.89		1	0.34	1.00	mg/kg	FD048550.D
Aromatic C16-C21	Aromatic C16-C21	18.1		1	0.96	1.67	mg/kg	FD048550.D
Aromatic C21-C36	Aromatic C21-C36	27.4		1	2.00	2.67	mg/kg	FD048550.D
Total AliphaticEPH	Total AliphaticEPH	53.0			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	60.0			3.60	6.01	mg/kg	
Total EPH	Total EPH	113			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 2024	Date Received:	
Client Sample ID:	PB164309BSD	SDG No.:	P4471
Lab Sample ID:	PB164309BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067487.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.96		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.14		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.65		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	11.8		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)	34.0		40 - 140	68%	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:	PB164309BSD	Acq On:	23 Oct 2024 02:29
Client Sample ID:	PB164309BSD	Operator:	YP/AJ
Data file:	FC067487.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	3.175	6.455	11471929	89.377	300	ug/ml
Aliphatic C12-C16	6.456	9.845	10096608	77.098	200	ug/ml
Aliphatic C16-C21	9.846	13.203	17062894	129.779	300	ug/ml
Aliphatic C21-C28	13.204	16.857	22411550	176.714	400	ug/ml
Aliphatic C28-C40	16.858	21.701	33787413	321.125	600	ug/ml
Aliphatic EPH	3.175	21.701	94830394	794.094		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.936	12.936	3849203	34.01		ug/ml
Aliphatic C9-C28	3.175	16.857	61042981	472.968	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164309BSD	SDG No.:	P4471
Lab Sample ID:	PB164309BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048550.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.56		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.89		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.1		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	27.4		2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.3		40 - 140	110%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.8		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.5		40 - 140	91%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164309BSD	Acq On:	23 Oct 2024 02:29
Client Sample ID:	PB164309BSD	Operator:	YP/AJ
Data file:	FD048550.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	4.096	5.814	15086475	83.358	200	ug/ml
Aromatic C12-C16	5.815	8.420	25338712	133.365	300	ug/ml
Aromatic C16-C21	8.421	12.681	48490961	271.311	500	ug/ml
Aromatic C21-C36	12.682	18.086	67994853	411.191	800	ug/ml
Aromatic EPH	4.096	18.086	156911001	899.225		ug/ml
2-Bromonaphthalene (SURR)	7.376	7.376	9146806	55.25		ug/ml
2-Flurobiphenyl (SURR)	8.226	8.226	6093512	58.76		ug/ml
ortho-Terphenyl (SURR)	11.262	11.262	8378054	45.53		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-303-BOTMS	SDG No.:	P4471
Lab Sample ID:	P4460-03MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
10/22/24 09:40	10/23/24 5:28	PB164309

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	13.4		1	0.47	1.25	mg/kg	FC067492.D
Aliphatic C12-C16	Aliphatic C12-C16	52.6	E	1	0.30	0.83	mg/kg	FC067492.D
Aliphatic C16-C21	Aliphatic C16-C21	20.0		1	0.37	1.25	mg/kg	FC067492.D
Aliphatic C21-C28	Aliphatic C21-C28	32.0		1	1.00	1.66	mg/kg	FC067492.D
Aliphatic C28-C40	Aliphatic C28-C40	33.3		1	2.24	2.49	mg/kg	FC067492.D
Aromatic C10-C12	Aromatic C10-C12	12.6		1	0.37	0.83	mg/kg	FD048555.D
Aromatic C12-C16	Aromatic C12-C16	19.1		1	0.42	1.25	mg/kg	FD048555.D
Aromatic C16-C21	Aromatic C16-C21	25.5		1	1.20	2.08	mg/kg	FD048555.D
Aromatic C21-C36	Aromatic C21-C36	42.2		1	2.49	3.32	mg/kg	FD048555.D
Total AliphaticEPH	Total AliphaticEPH	151			4.38	7.48	mg/kg	
Total AromaticEPH	Total AromaticEPH	99.4			4.49	7.48	mg/kg	
Total EPH	Total EPH	251			8.87	15.0	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 2024	Date Received:	
Client Sample ID:	WB-303-BOTMS	SDG No.:	P4471
Lab Sample ID:	P4460-03MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
FC067492.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	13.4		0.47	1.25	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	52.6	E	0.30	0.83	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	20.0		0.37	1.25	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	32.0		1.00	1.66	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	33.3		2.24	2.49	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.9		40 - 140	62%	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:	P4460-03MS	Acq On:	23 Oct 2024 05:28
Client Sample ID:	WB-303-BOTMS	Operator:	YP/AJ
Data file:	FC067492.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.455	20761466	161.751	300	ug/ml
Aliphatic C12-C16	6.456	9.845	82918311	633.169	200	ug/ml
Aliphatic C16-C21	9.846	13.203	31741633	241.425	300	ug/ml
Aliphatic C21-C28	13.204	16.857	48852275	385.198	400	ug/ml
Aliphatic C28-C40	16.858	21.701	42238111	401.442	600	ug/ml
Aliphatic EPH	3.175	21.701	226511796	1820		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.935	12.935	3499428	30.92		ug/ml
Aliphatic C9-C28	3.175	16.857	184273685	1420	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-303-BOTMS	SDG No.:	P4471
Lab Sample ID:	P4460-03MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
FD048555.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	12.6		0.37	0.83	mg/kg
Aromatic C12-C16	Aromatic C12-C16	19.1		0.42	1.25	mg/kg
Aromatic C16-C21	Aromatic C16-C21	25.5		1.20	2.08	mg/kg
Aromatic C21-C36	Aromatic C21-C36	42.2		2.49	3.32	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.9		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.8		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		40 - 140	67%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4460-03MS	Acq On:	23 Oct 2024 05:28
Client Sample ID:	WB-303-BOTMS	Operator:	YP/AJ
Data file:	FD048555.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.096	5.814	27440112	151.616	200	ug/ml
Aromatic C12-C16	5.815	8.420	43822658	230.651	300	ug/ml
Aromatic C16-C21	8.421	12.681	54983413	307.637	500	ug/ml
Aromatic C21-C36	12.682	18.086	84049586	508.28	800	ug/ml
Aromatic EPH	4.096	18.086	210295769	1200		ug/ml
2-Bromonaphthalene (SURR)	7.375	7.375	7933941	47.92		ug/ml
2-Flurobiphenyl (SURR)	8.225	8.225	5063781	48.83		ug/ml
ortho-Terphenyl (SURR)	11.260	11.260	6142126	33.38		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-303-BOTMSD	SDG No.:	P4471
Lab Sample ID:	P4460-03MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
10/22/24 09:40	10/23/24 6:04	PB164309

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	13.4		1	0.47	1.25	mg/kg	FC067493.D
Aliphatic C12-C16	Aliphatic C12-C16	52.0	E	1	0.30	0.83	mg/kg	FC067493.D
Aliphatic C16-C21	Aliphatic C16-C21	19.1		1	0.37	1.25	mg/kg	FC067493.D
Aliphatic C21-C28	Aliphatic C21-C28	30.7		1	1.00	1.66	mg/kg	FC067493.D
Aliphatic C28-C40	Aliphatic C28-C40	30.7		1	2.24	2.49	mg/kg	FC067493.D
Aromatic C10-C12	Aromatic C10-C12	12.6		1	0.37	0.83	mg/kg	FD048556.D
Aromatic C12-C16	Aromatic C12-C16	19.2		1	0.42	1.25	mg/kg	FD048556.D
Aromatic C16-C21	Aromatic C16-C21	25.3		1	1.20	2.08	mg/kg	FD048556.D
Aromatic C21-C36	Aromatic C21-C36	41.5		1	2.49	3.32	mg/kg	FD048556.D
Total AliphaticEPH	Total AliphaticEPH	146			4.38	7.48	mg/kg	
Total AromaticEPH	Total AromaticEPH	98.6			4.49	7.48	mg/kg	
Total EPH	Total EPH	245			8.87	15.0	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 2024	Date Received:	
Client Sample ID:	WB-303-BOTMSD	SDG No.:	P4471
Lab Sample ID:	P4460-03MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
FC067493.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	13.4		0.47	1.25	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	52.0	E	0.30	0.83	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	19.1		0.37	1.25	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	30.7		1.00	1.66	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	30.7		2.24	2.49	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.3		40 - 140	63%	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:	P4460-03MSD	Acq On:	23 Oct 2024 06:04
Client Sample ID:	WB-303-BOTMSD	Operator:	YP/AJ
Data file:	FC067493.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.455	20626184	160.697	300	ug/ml
Aliphatic C12-C16	6.456	9.845	82030665	626.391	200	ug/ml
Aliphatic C16-C21	9.846	13.203	30240713	230.009	300	ug/ml
Aliphatic C21-C28	13.204	16.857	46878638	369.636	400	ug/ml
Aliphatic C28-C40	16.858	21.701	38886916	369.592	600	ug/ml
Aliphatic EPH	3.175	21.701	218663116	1760		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.937	12.937	3543503	31.3		ug/ml
Aliphatic C9-C28	3.175	16.857	179776200	1390	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	WB-303-BOTMSD	SDG No.:	P4471
Lab Sample ID:	P4460-03MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.1
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
FD048556.D	1	10/22/24	10/23/24	PB164309

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	12.6		0.37	0.83	mg/kg
Aromatic C12-C16	Aromatic C12-C16	19.2		0.42	1.25	mg/kg
Aromatic C16-C21	Aromatic C16-C21	25.3		1.20	2.08	mg/kg
Aromatic C21-C36	Aromatic C21-C36	41.5		2.49	3.32	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.7		40 - 140	95%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.4		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.1		40 - 140	66%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4460-03MSD	Acq On:	23 Oct 2024 06:04
Client Sample ID:	WB-303-BOTMSD	Operator:	YP/AJ
Data file:	FD048556.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.096	5.814	27424014	151.527	200	ug/ml
Aromatic C12-C16	5.815	8.420	44002707	231.599	300	ug/ml
Aromatic C16-C21	8.421	12.681	54458100	304.698	500	ug/ml
Aromatic C21-C36	12.682	18.086	82550383	499.214	800	ug/ml
Aromatic EPH	4.096	18.086	208435204	1190		ug/ml
ortho-Terphenyl (SURR)	11.260	11.260	6082274	33.06		ug/ml
2-Bromonaphthalene (SURR)	7.375	7.375	7899041	47.71		ug/ml
2-Flurobiphenyl (SURR)	8.225	8.225	5015716	48.37		ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC100224AL

AreaCount

Parameter Range	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.D	
Aliphatic C9-C12	36157754.000	18468554.000	7796622.000	3912320.000	2066528.000	
Aliphatic C12-C16	24671572.000	12642565.000	5319639.000	2676246.000	1382016.000	
Aliphatic C16-C21	36539622.000	18852548.000	8005327.000	4100822.000	2096729.000	
Aliphatic C21-C28	47235980.000	24590379.000	10215208.000	5219473.000	2697991.000	
Aliphatic C28-C40	57341685.000	29822245.000	12674884.000	6440179.000	3544258.000	
Aliphatic EPH	201946613.000	104376291.000	44011680.000	22349040.000	11787522.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	128354.4879996	5.284				
Aliphatic C12-C16	130957.677	4.567				
Aliphatic C16-C21	131476.1019996	5.732				
Aliphatic C21-C28	126823.664	5.15				
Aliphatic C28-C40	105215.848333	8.211				
Aliphatic EPH	121110.9372216	6.036				

Concentration

Parameter Range	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.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	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.D	
Aliphatic C9-C12	120525.846666	123123.693333	129943.700000	130410.666666	137768.533333	
Aliphatic C12-C16	123357.860000	126425.650000	132990.975000	133812.300000	138201.600000	
Aliphatic C16-C21	121798.740000	125683.653333	133422.116666	136694.066666	139781.933333	

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Inital Calibration Report for SequenceID : FC100224AL

Aliphatic C21-C28	118089.950000	122951.895000	127690.100000	130486.825000	134899.550000	
Aliphatic C28-C40	95569.475000	99407.483333	105624.033333	107336.316666	118141.933333	
Aliphatic EPH	112192.562777	115973.656666	122254.666666	124161.333333	130972.466666	

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Inital Calibration Report for SequenceID : FD093024AR

AreaCount

Parameter Range	FD048398.D	FD048399.D	FD048400.D	FD048401.D	FD048402.D	
Aromatic C10-C12	34648059.000	18252378.000	7283031.000	3571721.000	1884983.000	
Aromatic C12-C16	52772389.000	27987173.000	11349711.000	5750614.000	3099577.000	
Aromatic C16-C21	67557629.000	35880273.000	14451391.000	7136049.000	3726042.000	
Aromatic C21-C36	141518244.000	74756685.000	30035782.000	14897193.000	7697046.000	
Aromatic EPH	296496321.000	156876509.000	63119915.000	31355577.000	16407648.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	180984.84	3.098				
Aromatic C12-C16	189995.313333	5.829				
Aromatic C16-C21	178728.23	3.52				
Aromatic C21-C36	165360.7497772	3.04				
Aromatic EPH	174173.0715554	3.596				

Concentration

Parameter Range	FD048398.D	FD048399.D	FD048400.D	FD048401.D	FD048402.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	FD048398.D	FD048399.D	FD048400.D	FD048401.D	FD048402.D	
Aromatic C10-C12	173240.295000	182523.780000	182075.775000	178586.050000	188498.300000	
Aromatic C12-C16	175907.963333	186581.153333	189161.850000	191687.133333	206638.466666	
Aromatic C16-C21	168894.072500	179401.365000	180642.387500	178401.225000	186302.100000	
Aromatic C21-C36	157242.493333	166125.966666	166865.455555	165524.366666	171045.466666	
Aromatic EPH	164720.178333	174307.232222	175333.097222	174197.650000	182307.200000	

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Continuing Calibration Report for SequenceID : FC102224AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067484.D**						
Aliphatic C9-C12	7061530.000	60.000	3.175	6.455	117692.167	128354.488	8.307
Aliphatic C12-C16	4662702.000	40.000	6.456	9.845	116567.550	130957.677	10.988
Aliphatic C16-C21	6773563.000	60.000	9.846	13.203	112892.717	131476.102	14.134
Aliphatic C21-C28	9096898.000	80.000	13.204	16.857	113711.225	126823.664	10.339
Aliphatic C28-C40	11940513.000	120.000	16.858	21.701	99504.275	105215.848	5.428
Aliphatic EPH	39535206.000	360.000	3.175	21.701	109820.017	121110.937	9.323

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	22 Oct 2024 12:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067484.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.175	6.455	7061530.000	60.000	ug/ml
Aliphatic C12-C16	6.456	9.845	4662702.000	40.000	ug/ml
Aliphatic C16-C21	9.846	13.203	6773563.000	60.000	ug/ml
Aliphatic C21-C28	13.204	16.857	9096898.000	80.000	ug/ml
Aliphatic C28-C40	16.858	21.701	11940513.000	120.000	ug/ml
Aliphatic EPH	3.175	21.701	39535206.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC102224AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067497.D**						
Aliphatic C9-C12	7120345.000	60.000	3.175	6.455	118672.417	128354.488	7.543
Aliphatic C12-C16	4707454.000	40.000	6.456	9.845	117686.350	130957.677	10.134
Aliphatic C16-C21	6832576.000	60.000	9.846	13.203	113876.267	131476.102	13.386
Aliphatic C21-C28	9183247.000	80.000	13.204	16.857	114790.588	126823.664	9.488
Aliphatic C28-C40	12317337.000	120.000	16.858	21.701	102644.475	105215.848	2.444
Aliphatic EPH	40160959.000	360.000	3.175	21.701	111558.219	121110.937	7.888

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	23 Oct 2024 08:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067497.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.175	6.455	7120345.000	60.000	ug/ml
Aliphatic C12-C16	6.456	9.845	4707454.000	40.000	ug/ml
Aliphatic C16-C21	9.846	13.203	6832576.000	60.000	ug/ml
Aliphatic C21-C28	13.204	16.857	9183247.000	80.000	ug/ml
Aliphatic C28-C40	16.858	21.701	12317337.000	120.000	ug/ml
Aliphatic EPH	3.175	21.701	40160959.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD102224AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048547.D**						
Aromatic C10-C12	7943019.000	40.000	4.096	5.814	198575.475	180984.840	-9.719
Aromatic C12-C16	11857455.000	60.000	5.815	8.420	197624.250	189995.313	-4.015
Aromatic C16-C21	14282295.000	80.000	8.421	12.681	178528.688	178728.230	0.112
Aromatic C21-C36	30751520.000	180.000	12.682	18.086	170841.778	165360.750	-3.315
Aromatic EPH	64834289.000	360.000	4.096	18.086	180095.247	174173.072	-3.400

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	22 Oct 2024 12:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048547.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.096	5.814	7943019.000	40.000	ug/ml
Aromatic C12-C16	5.815	8.420	11857455.000	60.000	ug/ml
Aromatic C16-C21	8.421	12.681	14282295.000	80.000	ug/ml
Aromatic C21-C36	12.682	18.086	30751520.000	180.000	ug/ml
Aromatic EPH	4.096	18.086	64834289.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD102224AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048560.D**						
Aromatic C10-C12	8157685.000	40.000	4.096	5.814	203942.125	180984.840	-12.685
Aromatic C12-C16	12219474.000	60.000	5.815	8.420	203657.900	189995.313	-7.191
Aromatic C16-C21	14694945.000	80.000	8.421	12.681	183686.813	178728.230	-2.774
Aromatic C21-C36	31489467.000	180.000	12.682	18.086	174941.483	165360.750	-5.794
Aromatic EPH	66561571.000	360.000	4.096	18.086	184893.253	174173.072	-6.155

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:	23 Oct 2024 08:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048560.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.096	5.814	8157685.000	40.000	ug/ml
Aromatic C12-C16	5.815	8.420	12219474.000	60.000	ug/ml
Aromatic C16-C21	8.421	12.681	14694945.000	80.000	ug/ml
Aromatic C21-C36	12.682	18.086	31489467.000	180.000	ug/ml
Aromatic EPH	4.096	18.086	66561571.000	360.000	ug/ml

SAMPLE RAW DATA

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067494.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 06:40
Operator : YP/AJ
Sample : P4471-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-180-SB01

Integration File: autoint1.e
Quant Time: Oct 23 11:05:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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...	12.936	4348291	38.415 ug/ml
Spiked Amount 50.000		Recovery = 76.83%	
Target Compounds			

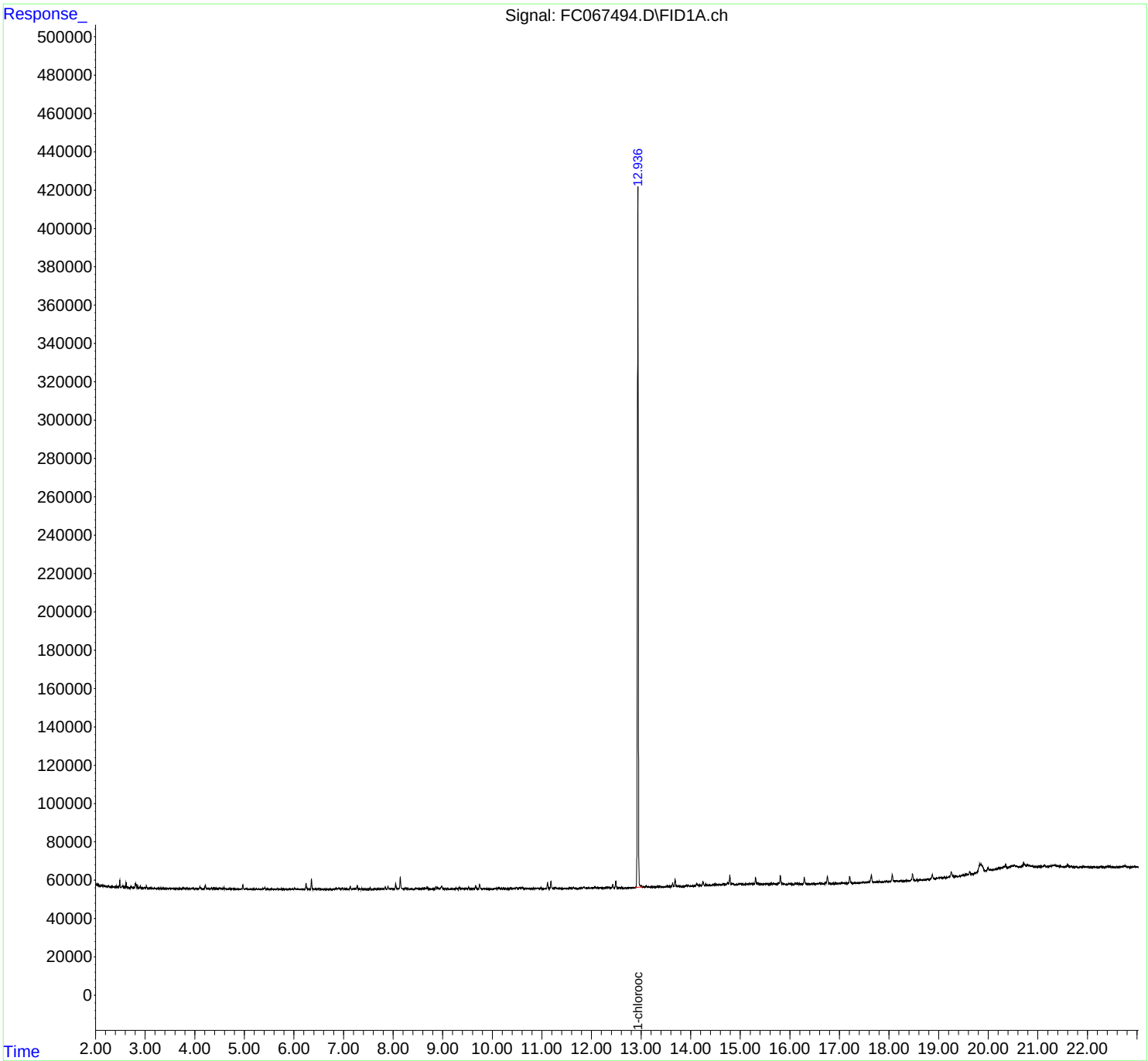
(f)=RT Delta > 1/2 Window (m)=manual int.

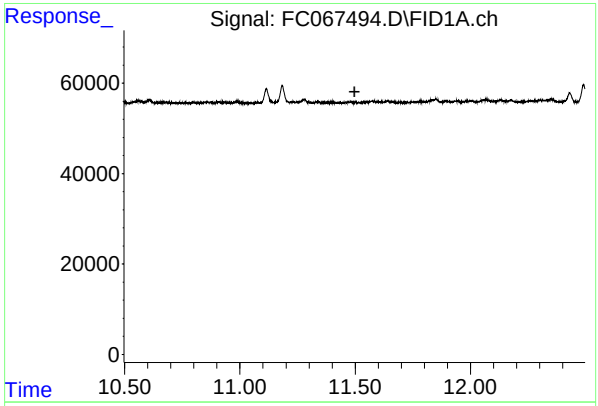
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067494.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 06:40
Operator : YP/AJ
Sample : P4471-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-180-SB01

Integration File: autoint1.e
Quant Time: Oct 23 11:05:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

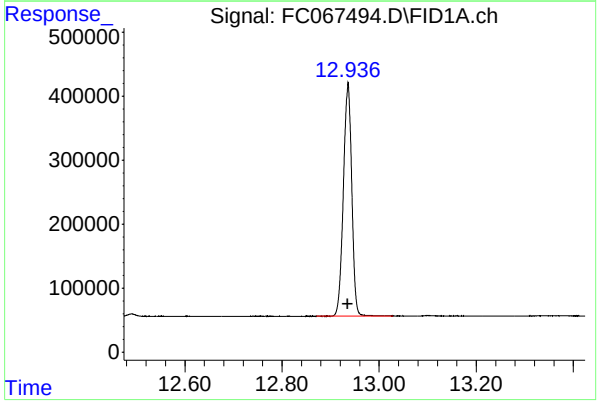




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-180-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 12.936 min
Delta R.T.: 0.000 min
Response: 4348291
Conc: 38.41 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067494.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 06:40
Sample : P4471-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.273	3.204	3.304	BV	292	3502	0.08%	0.019%
2	3.308	3.304	3.348	VV	114	1028	0.02%	0.006%
3	3.376	3.348	3.393	PV	184	3132	0.07%	0.017%
4	3.405	3.393	3.463	VV	148	3136	0.07%	0.017%
5	3.475	3.463	3.514	VV	138	1699	0.04%	0.009%
6	3.529	3.514	3.561	VV	152	2792	0.06%	0.015%
7	3.574	3.561	3.584	VV	134	1143	0.03%	0.006%
8	3.597	3.584	3.628	VV	227	3101	0.07%	0.017%
9	3.647	3.628	3.662	VV	155	1734	0.04%	0.009%
10	3.683	3.662	3.743	PV	189	3240	0.07%	0.018%
11	3.767	3.743	3.827	VV	591	10347	0.24%	0.057%
12	3.847	3.827	3.914	VV	316	5907	0.13%	0.032%
13	3.942	3.914	3.955	VV	542	5882	0.13%	0.032%
14	3.968	3.955	3.994	VV	582	6283	0.14%	0.034%
15	4.035	3.994	4.070	VV	172	5138	0.12%	0.028%
16	4.102	4.070	4.151	VV	1143	17937	0.41%	0.098%
17	4.163	4.151	4.184	VV	174	2471	0.06%	0.014%
18	4.215	4.184	4.282	VV	2186	32864	0.75%	0.180%
19	4.290	4.282	4.318	VV	150	2673	0.06%	0.015%
20	4.339	4.318	4.368	VV	733	9404	0.21%	0.051%
21	4.380	4.368	4.396	VV	507	5589	0.13%	0.031%
22	4.441	4.396	4.470	VV	441	10309	0.23%	0.056%
23	4.506	4.470	4.528	VV	677	11948	0.27%	0.065%
24	4.538	4.528	4.546	VV	220	1926	0.04%	0.011%
25	4.562	4.546	4.575	VV	584	6192	0.14%	0.034%
26	4.591	4.575	4.614	VV	934	10034	0.23%	0.055%
27	4.624	4.614	4.638	VV	134	1176	0.03%	0.006%
28	4.650	4.638	4.658	VV	110	885	0.02%	0.005%
29	4.692	4.658	4.701	VV	138	2627	0.06%	0.014%
30	4.718	4.701	4.734	VV	260	2775	0.06%	0.015%
31	4.750	4.734	4.772	VV	129	2373	0.05%	0.013%
32	4.788	4.772	4.852	VV	235	3911	0.09%	0.021%
33	4.868	4.852	4.878	VV	120	1059	0.02%	0.006%
34	4.893	4.878	4.924	VV	167	2208	0.05%	0.012%
35	4.970	4.924	5.008	PV	2411	30586	0.70%	0.167%
36	5.027	5.008	5.040	VV	491	5078	0.12%	0.028%

rteres

37	5.054	5.040	5.098	VV	321	5056	0.11%	0.028%
38	5.107	5.098	5.124	VV	97	904	0.02%	0.005%
39	5.161	5.124	5.181	VV	148	2785	0.06%	0.015%
40	5.195	5.181	5.221	VV	267	3633	0.08%	0.020%
41	5.248	5.221	5.282	VV	208	4076	0.09%	0.022%
42	5.292	5.282	5.313	VV	137	1390	0.03%	0.008%
43	5.340	5.313	5.354	VV	149	3089	0.07%	0.017%
44	5.374	5.354	5.388	VV	614	6784	0.15%	0.037%
45	5.411	5.388	5.458	VV	925	14591	0.33%	0.080%
46	5.467	5.458	5.500	VV	246	4182	0.10%	0.023%
47	5.555	5.500	5.590	VV	295	8841	0.20%	0.048%
48	5.604	5.590	5.635	VV	131	3118	0.07%	0.017%
49	5.657	5.635	5.691	VV	316	5614	0.13%	0.031%
50	5.704	5.691	5.734	VV	215	3544	0.08%	0.019%
51	5.740	5.734	5.753	VV	140	1463	0.03%	0.008%
52	5.758	5.753	5.811	VV	147	3335	0.08%	0.018%
53	5.831	5.811	5.870	PV	136	3445	0.08%	0.019%
54	5.884	5.870	5.901	VV	164	1927	0.04%	0.011%
55	5.921	5.901	5.953	VV	392	6830	0.16%	0.037%
56	5.972	5.953	5.993	VV	265	4914	0.11%	0.027%
57	6.014	5.993	6.044	VV	633	9211	0.21%	0.050%
58	6.074	6.044	6.114	VV	366	7544	0.17%	0.041%
59	6.132	6.114	6.170	VV	206	4929	0.11%	0.027%
60	6.183	6.170	6.218	VV	227	4390	0.10%	0.024%
61	6.245	6.218	6.285	VV	3155	39291	0.89%	0.215%
62	6.294	6.285	6.324	VV	262	4236	0.10%	0.023%
63	6.354	6.324	6.420	VV	5498	67063	1.52%	0.367%
64	6.436	6.420	6.458	VV	423	6060	0.14%	0.033%
65	6.472	6.458	6.488	VV	280	3670	0.08%	0.020%
66	6.503	6.488	6.526	VV	758	9216	0.21%	0.050%
67	6.538	6.526	6.558	VV	329	4168	0.09%	0.023%
68	6.575	6.558	6.645	VV	446	8154	0.19%	0.045%
69	6.661	6.645	6.671	VV	147	1887	0.04%	0.010%
70	6.678	6.671	6.707	VV	136	2340	0.05%	0.013%
71	6.721	6.707	6.774	VV	204	4733	0.11%	0.026%
72	6.796	6.774	6.826	PV	482	6915	0.16%	0.038%
73	6.849	6.826	6.879	VV	639	12319	0.28%	0.067%
74	6.902	6.879	6.939	VV	539	13602	0.31%	0.074%
75	6.974	6.939	6.994	VV	793	15546	0.35%	0.085%
76	7.012	6.994	7.040	VV	316	6150	0.14%	0.034%
77	7.054	7.040	7.066	VV	313	3949	0.09%	0.022%
78	7.080	7.066	7.104	VV	292	5120	0.12%	0.028%
79	7.136	7.104	7.176	VV	1727	23900	0.54%	0.131%
80	7.200	7.176	7.224	VV	304	6462	0.15%	0.035%
81	7.242	7.224	7.254	VV	359	5020	0.11%	0.027%
82	7.277	7.254	7.308	VV	1985	25882	0.59%	0.142%
83	7.315	7.308	7.324	VV	280	2193	0.05%	0.012%
84	7.342	7.324	7.356	VV	326	5113	0.12%	0.028%
85	7.368	7.356	7.388	VV	471	5304	0.12%	0.029%
86	7.448	7.388	7.477	VV	250	8400	0.19%	0.046%
87	7.488	7.477	7.512	VV	167	2696	0.06%	0.015%
88	7.537	7.512	7.576	VV	678	9878	0.22%	0.054%
89	7.621	7.576	7.670	VV	293	10270	0.23%	0.056%

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90	7.701	7.670	7.716	VV	361	5988	0.14%	0.033%
91	7.730	7.716	7.744	VV	347	4844	0.11%	0.026%
92	7.754	7.744	7.774	VV	396	5161	0.12%	0.028%
93	7.798	7.774	7.818	VV	556	7275	0.17%	0.040%
94	7.842	7.818	7.874	VV	1218	17582	0.40%	0.096%
95	7.898	7.874	7.921	VV	1764	20633	0.47%	0.113%
96	7.936	7.921	7.946	VV	300	3153	0.07%	0.017%
97	7.967	7.946	7.988	VV	517	7676	0.17%	0.042%
98	7.998	7.988	8.023	VV	413	5955	0.14%	0.033%
99	8.053	8.023	8.116	VV	3010	48557	1.10%	0.266%
100	8.146	8.116	8.217	VV	6651	91667	2.08%	0.501%
101	8.244	8.217	8.278	VV	541	13603	0.31%	0.074%
102	8.292	8.278	8.320	VV	423	7536	0.17%	0.041%
103	8.340	8.320	8.361	VV	403	5851	0.13%	0.032%
104	8.379	8.361	8.413	VV	413	5977	0.14%	0.033%
105	8.457	8.413	8.481	VV	538	13013	0.30%	0.071%
106	8.491	8.481	8.533	VV	467	10645	0.24%	0.058%
107	8.562	8.533	8.578	VV	389	7947	0.18%	0.043%
108	8.601	8.578	8.621	VV	505	9462	0.22%	0.052%
109	8.635	8.621	8.650	VV	508	6711	0.15%	0.037%
110	8.682	8.650	8.720	VV	1005	21103	0.48%	0.115%
111	8.742	8.720	8.784	VV	283	6014	0.14%	0.033%
112	8.799	8.784	8.818	VV	302	3529	0.08%	0.019%
113	8.833	8.818	8.840	VV	249	2635	0.06%	0.014%
114	8.866	8.840	8.884	VV	1481	22048	0.50%	0.121%
115	8.900	8.884	8.951	VV	775	20685	0.47%	0.113%
116	8.979	8.951	9.033	VV	1513	35678	0.81%	0.195%
117	9.052	9.033	9.084	VV	429	6342	0.14%	0.035%
118	9.104	9.084	9.139	VV	298	5213	0.12%	0.029%
119	9.160	9.139	9.170	PV	181	2648	0.06%	0.014%
120	9.201	9.170	9.215	VV	298	5654	0.13%	0.031%
121	9.224	9.215	9.241	VV	232	3354	0.08%	0.018%
122	9.268	9.241	9.309	VV	552	11723	0.27%	0.064%
123	9.335	9.309	9.371	VV	869	16508	0.38%	0.090%
124	9.385	9.371	9.418	VV	381	7740	0.18%	0.042%
125	9.428	9.418	9.451	VV	248	3693	0.08%	0.020%
126	9.473	9.451	9.499	VV	510	9788	0.22%	0.054%
127	9.524	9.499	9.568	VV	1186	17217	0.39%	0.094%
128	9.579	9.568	9.601	VV	236	3047	0.07%	0.017%
129	9.616	9.601	9.639	VV	262	3879	0.09%	0.021%
130	9.664	9.639	9.718	VV	1660	25174	0.57%	0.138%
131	9.745	9.718	9.797	VV	2490	36193	0.82%	0.198%
132	9.825	9.797	9.938	VV	310	13087	0.30%	0.072%
133	9.946	9.938	9.978	VV	46	771	0.02%	0.004%
134	10.022	9.978	10.039	PV	203	3223	0.07%	0.018%
135	10.060	10.039	10.077	VV	217	3563	0.08%	0.019%
136	10.092	10.077	10.103	VV	206	2641	0.06%	0.014%
137	10.131	10.103	10.153	VV	503	9856	0.22%	0.054%
138	10.172	10.153	10.197	VV	287	6020	0.14%	0.033%
139	10.217	10.197	10.251	VV	279	5846	0.13%	0.032%
140	10.258	10.251	10.308	VV	186	3854	0.09%	0.021%
141	10.344	10.308	10.353	VV	191	3466	0.08%	0.019%

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142	10.374	10.353	10.394	VV	286	5013	0.11%	0.027%
143	10.426	10.394	10.448	VV	401	8007	0.18%	0.044%
144	10.483	10.448	10.517	VV	840	16624	0.38%	0.091%
145	10.555	10.517	10.587	VV	593	16751	0.38%	0.092%
146	10.608	10.587	10.644	VV	774	14938	0.34%	0.082%
147	10.668	10.644	10.725	VV	321	9955	0.23%	0.054%
148	10.738	10.725	10.761	VV	201	2570	0.06%	0.014%
149	10.768	10.761	10.783	VV	122	1498	0.03%	0.008%
150	10.804	10.783	10.822	VV	241	3865	0.09%	0.021%
151	10.854	10.822	10.890	VV	308	8426	0.19%	0.046%
152	10.908	10.890	10.921	VV	329	4692	0.11%	0.026%
153	10.936	10.921	10.958	VV	344	4137	0.09%	0.023%
154	10.987	10.958	11.024	VV	401	7202	0.16%	0.039%
155	11.037	11.024	11.050	VV	69	662	0.02%	0.004%
156	11.077	11.050	11.087	VV	205	2658	0.06%	0.015%
157	11.115	11.087	11.148	VV	3213	42908	0.98%	0.235%
158	11.184	11.148	11.249	VV	3956	57826	1.31%	0.316%
159	11.278	11.249	11.312	VV	825	14556	0.33%	0.080%
160	11.338	11.312	11.363	VV	261	4700	0.11%	0.026%
161	11.372	11.363	11.441	VV	158	4328	0.10%	0.024%
162	11.479	11.441	11.521	PV	245	6498	0.15%	0.036%
163	11.549	11.521	11.555	VV	220	3172	0.07%	0.017%
164	11.572	11.555	11.610	VV	404	8759	0.20%	0.048%
165	11.640	11.610	11.686	VV	395	10807	0.25%	0.059%
166	11.699	11.686	11.718	VV	126	1771	0.04%	0.010%
167	11.849	11.718	11.879	VV	895	29135	0.66%	0.159%
168	11.893	11.879	11.919	VV	369	6279	0.14%	0.034%
169	11.941	11.919	11.966	VV	401	7997	0.18%	0.044%
170	12.006	11.966	12.028	VV	401	10858	0.25%	0.059%
171	12.058	12.028	12.098	VV	624	17590	0.40%	0.096%
172	12.104	12.098	12.113	VV	330	2624	0.06%	0.014%
173	12.131	12.113	12.154	VV	626	9887	0.22%	0.054%
174	12.175	12.154	12.204	VV	557	9591	0.22%	0.052%
175	12.212	12.204	12.217	VV	193	1450	0.03%	0.008%
176	12.225	12.217	12.237	VV	254	2301	0.05%	0.013%
177	12.261	12.237	12.280	VV	421	7494	0.17%	0.041%
178	12.302	12.280	12.330	VV	545	13249	0.30%	0.072%
179	12.351	12.330	12.379	VV	653	13029	0.30%	0.071%
180	12.430	12.379	12.464	VV	2062	31545	0.72%	0.173%
181	12.490	12.464	12.516	VV	3989	50484	1.15%	0.276%
182	12.523	12.516	12.544	VV	307	4435	0.10%	0.024%
183	12.551	12.544	12.584	VV	310	5812	0.13%	0.032%
184	12.605	12.584	12.678	VV	311	8395	0.19%	0.046%
185	12.687	12.678	12.699	VV	171	942	0.02%	0.005%
186	12.768	12.699	12.799	PV	350	11845	0.27%	0.065%
187	12.814	12.799	12.828	VV	264	3008	0.07%	0.016%
188	12.885	12.828	12.894	VV	298	8525	0.19%	0.047%
189	12.936	12.894	13.078	VV	357349	4399323	100.00%	24.063%
190	13.101	13.078	13.150	VV	1206	28987	0.66%	0.159%
191	13.160	13.150	13.187	VV	605	10722	0.24%	0.059%
192	13.201	13.187	13.250	VV	377	12846	0.29%	0.070%
193	13.262	13.250	13.284	VV	354	5805	0.13%	0.032%
194	13.340	13.284	13.350	VV	584	17220	0.39%	0.094%

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195	13.362	13.350	13.429	VV	575	22032	0.50%	0.121%
196	13.445	13.429	13.469	VV	407	7636	0.17%	0.042%
197	13.482	13.469	13.501	VV	364	6882	0.16%	0.038%
198	13.529	13.501	13.574	VV	617	20260	0.46%	0.111%
199	13.635	13.574	13.660	VV	1954	41492	0.94%	0.227%
200	13.687	13.660	13.725	VV	4140	65476	1.49%	0.358%
201	13.749	13.725	13.761	VV	685	12130	0.28%	0.066%
202	13.771	13.761	13.853	VV	568	20100	0.46%	0.110%
203	13.910	13.853	13.941	VV	950	29619	0.67%	0.162%
204	13.951	13.941	13.968	VV	626	9450	0.21%	0.052%
205	13.981	13.968	14.001	VV	662	10162	0.23%	0.056%
206	14.017	14.001	14.028	VV	513	7625	0.17%	0.042%
207	14.042	14.028	14.055	VV	531	7801	0.18%	0.043%
208	14.121	14.055	14.151	VV	1792	51203	1.16%	0.280%
209	14.160	14.151	14.170	VV	734	8162	0.19%	0.045%
210	14.182	14.170	14.204	VV	787	14175	0.32%	0.078%
211	14.249	14.204	14.287	VV	2718	60180	1.37%	0.329%
212	14.308	14.287	14.368	VV	1036	38989	0.89%	0.213%
213	14.373	14.368	14.414	VV	795	19558	0.44%	0.107%
214	14.454	14.414	14.484	VV	1248	37884	0.86%	0.207%
215	14.496	14.484	14.514	VV	985	17264	0.39%	0.094%
216	14.527	14.514	14.551	VV	980	18898	0.43%	0.103%
217	14.568	14.551	14.580	VV	942	14658	0.33%	0.080%
218	14.598	14.580	14.609	VV	924	14252	0.32%	0.078%
219	14.647	14.609	14.671	VV	1120	35856	0.82%	0.196%
220	14.705	14.671	14.712	VV	1044	23510	0.53%	0.129%
221	14.744	14.712	14.764	VV	1969	43516	0.99%	0.238%
222	14.789	14.764	14.827	VV	5724	97622	2.22%	0.534%
223	14.845	14.827	14.887	VV	1398	38413	0.87%	0.210%
224	14.897	14.887	14.921	VV	845	16593	0.38%	0.091%
225	14.985	14.941	15.011	VV	1181	40436	0.92%	0.221%
226	15.036	15.011	15.088	VV	1047	40981	0.93%	0.224%
227	15.175	15.088	15.197	VV	1138	58546	1.33%	0.320%
228	15.219	15.197	15.228	VV	1064	18789	0.43%	0.103%
229	15.239	15.228	15.271	VV	1073	25204	0.57%	0.138%
230	15.308	15.271	15.338	VV	4185	76347	1.74%	0.418%
231	15.358	15.338	15.458	VV	1343	56470	1.28%	0.309%
232	15.488	15.458	15.591	VV	899	52126	1.18%	0.285%
233	15.630	15.591	15.658	VV	898	30102	0.68%	0.165%
234	15.672	15.658	15.720	VV	861	26351	0.60%	0.144%
235	15.738	15.720	15.746	VV	607	8679	0.20%	0.047%
236	15.768	15.746	15.784	VV	1435	22279	0.51%	0.122%
237	15.807	15.784	15.838	VV	4954	77878	1.77%	0.426%
238	15.848	15.838	15.927	VV	891	27435	0.62%	0.150%
239	15.938	15.927	15.956	VV	378	5143	0.12%	0.028%
240	15.982	15.956	16.034	VV	678	22593	0.51%	0.124%
241	16.046	16.034	16.071	VV	449	8043	0.18%	0.044%
242	16.116	16.071	16.138	VV	641	19560	0.44%	0.107%
243	16.167	16.138	16.245	VV	707	25295	0.57%	0.138%
244	16.290	16.245	16.318	VV	3552	55215	1.26%	0.302%
245	16.328	16.318	16.361	VV	463	9439	0.21%	0.052%
246	16.367	16.361	16.398	VV	281	4328	0.10%	0.024%

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247	16.405	16.398	16.422	VV	191	1850	0.04%	0.010%
248	16.451	16.422	16.462	VV	396	5412	0.12%	0.030%
249	16.469	16.462	16.500	VV	335	6252	0.14%	0.034%
250	16.509	16.500	16.550	VV	405	7015	0.16%	0.038%
251	16.592	16.550	16.614	VV	433	12269	0.28%	0.067%
252	16.638	16.614	16.664	VV	432	10277	0.23%	0.056%
253	16.680	16.664	16.695	VV	252	3299	0.07%	0.018%
254	16.721	16.695	16.734	VV	872	12600	0.29%	0.069%
255	16.755	16.734	16.788	VV	4036	62923	1.43%	0.344%
256	16.801	16.788	16.851	VV	443	8326	0.19%	0.046%
257	16.877	16.851	16.890	VV	224	2394	0.05%	0.013%
258	16.905	16.890	16.910	PV	199	1851	0.04%	0.010%
259	16.921	16.910	16.944	VV	270	4416	0.10%	0.024%
260	16.988	16.944	17.007	VV	322	8391	0.19%	0.046%
261	17.050	17.007	17.070	VV	380	10270	0.23%	0.056%
262	17.083	17.070	17.121	VV	478	9238	0.21%	0.051%
263	17.138	17.121	17.158	VV	235	4360	0.10%	0.024%
264	17.167	17.158	17.176	VV	228	2192	0.05%	0.012%
265	17.206	17.176	17.274	VV	3726	60067	1.37%	0.329%
266	17.315	17.274	17.338	VV	370	7981	0.18%	0.044%
267	17.354	17.338	17.374	VV	304	5349	0.12%	0.029%
268	17.487	17.374	17.504	VV	509	26227	0.60%	0.143%
269	17.541	17.504	17.561	VV	482	13385	0.30%	0.073%
270	17.642	17.561	17.696	VV	4359	97952	2.23%	0.536%
271	17.711	17.696	17.739	VV	512	10847	0.25%	0.059%
272	17.778	17.739	17.828	VV	781	30677	0.70%	0.168%
273	17.832	17.828	17.848	VV	520	5485	0.12%	0.030%
274	17.866	17.848	17.876	VV	478	6640	0.15%	0.036%
275	17.917	17.876	17.941	VV	655	20106	0.46%	0.110%
276	17.959	17.941	18.003	VV	662	21096	0.48%	0.115%
277	18.064	18.003	18.128	VV	4114	97953	2.23%	0.536%
278	18.145	18.128	18.192	VV	931	28889	0.66%	0.158%
279	18.202	18.192	18.294	VV	712	38866	0.88%	0.213%
280	18.333	18.294	18.348	VV	851	23607	0.54%	0.129%
281	18.360	18.348	18.374	VV	809	11994	0.27%	0.066%
282	18.473	18.374	18.538	VV	4285	130259	2.96%	0.712%
283	18.568	18.538	18.591	VV	949	27489	0.62%	0.150%
284	18.620	18.591	18.654	VV	1054	37392	0.85%	0.205%
285	18.665	18.654	18.704	VV	1066	29832	0.68%	0.163%
286	18.731	18.704	18.748	VV	1235	27952	0.64%	0.153%
287	18.780	18.748	18.808	VV	1222	39620	0.90%	0.217%
288	18.871	18.808	18.929	VV	3652	136267	3.10%	0.745%
289	18.969	18.929	18.978	VV	1809	48041	1.09%	0.263%
290	19.045	18.978	19.101	VV	2121	141866	3.22%	0.776%
291	19.107	19.101	19.140	VV	2001	44834	1.02%	0.245%
292	19.254	19.140	19.318	VV	4870	284591	6.47%	1.557%
293	19.328	19.318	19.341	VV	2483	33562	0.76%	0.184%
294	19.365	19.341	19.407	VV	2540	95833	2.18%	0.524%
295	19.499	19.407	19.509	VV	3095	167023	3.80%	0.914%
296	19.534	19.509	19.578	VV	3279	130491	2.97%	0.714%
297	19.629	19.578	19.661	VV	4685	185512	4.22%	1.015%
298	19.703	19.661	19.710	VV	3615	103592	2.35%	0.567%
299	19.828	19.710	19.847	VV	8393	445126	10.12%	2.435%

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300	19.863	19.847	19.945	VV	8355	388521	8.83%	2.125%
301	19.994	19.945	20.029	VV	6643	283540	6.45%	1.551%
302	20.051	20.029	20.078	VV	5644	161911	3.68%	0.886%
303	20.177	20.078	20.188	VV	5879	372991	8.48%	2.040%
304	20.272	20.188	20.288	VV	6587	379616	8.63%	2.076%
305	20.298	20.288	20.310	VV	6713	85855	1.95%	0.470%
306	20.349	20.310	20.401	VV	7526	376825	8.57%	2.061%
307	20.455	20.401	20.463	VV	7043	252621	5.74%	1.382%
308	20.481	20.463	20.496	VV	7208	140985	3.20%	0.771%
309	20.531	20.496	20.616	VV	7415	508806	11.57%	2.783%
310	20.719	20.616	20.769	VV	8451	666241	15.14%	3.644%
311	20.775	20.769	20.796	VV	7400	117967	2.68%	0.645%
312	20.807	20.796	20.833	VV	7351	163855	3.72%	0.896%
313	20.843	20.833	21.002	VV	7195	679651	15.45%	3.718%
314	21.037	21.002	21.071	VV	6738	277077	6.30%	1.516%
315	21.081	21.071	21.094	VV	6607	90639	2.06%	0.496%
316	21.129	21.094	21.174	VV	7141	326506	7.42%	1.786%
317	21.184	21.174	21.208	VV	6590	133714	3.04%	0.731%
318	21.279	21.208	21.292	VV	6929	335473	7.63%	1.835%
319	21.340	21.292	21.445	VV	7177	622226	14.14%	3.403%
320	21.450	21.445	21.488	VV	6464	162806	3.70%	0.891%
321	21.496	21.488	21.528	VV	6294	149423	3.40%	0.817%
322	21.600	21.528	21.639	VV	6847	424964	9.66%	2.324%
323	21.653	21.639	21.660	VV	6279	77858	1.77%	0.426%
324	21.668	21.660	21.740	VV	6339	290903	6.61%	1.591%
325	21.752	21.740	21.801	VBA	6011	226746	5.15%	1.240%

Sum of corrected areas: 18282458

Aliphatic EPH 100224.M Wed Oct 23 11:12:04 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048557.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 06:40
Operator : YP/AJ
Sample : P4471-01
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-180-SB01

Integration File: autoint1.e
Quant Time: Oct 23 11:14:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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...	7.375	7508532	45.350 ug/ml
Spiked Amount 50.000		Recovery =	90.70%
6) S 2-Flurobiphenyl (SURR)	8.224	4973975	47.963 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	95.93%
11) S ortho-Terphenyl (SURR)	11.260	7187892	39.065 ug/ml
Spiked Amount 50.000		Recovery =	78.13%
Target Compounds			

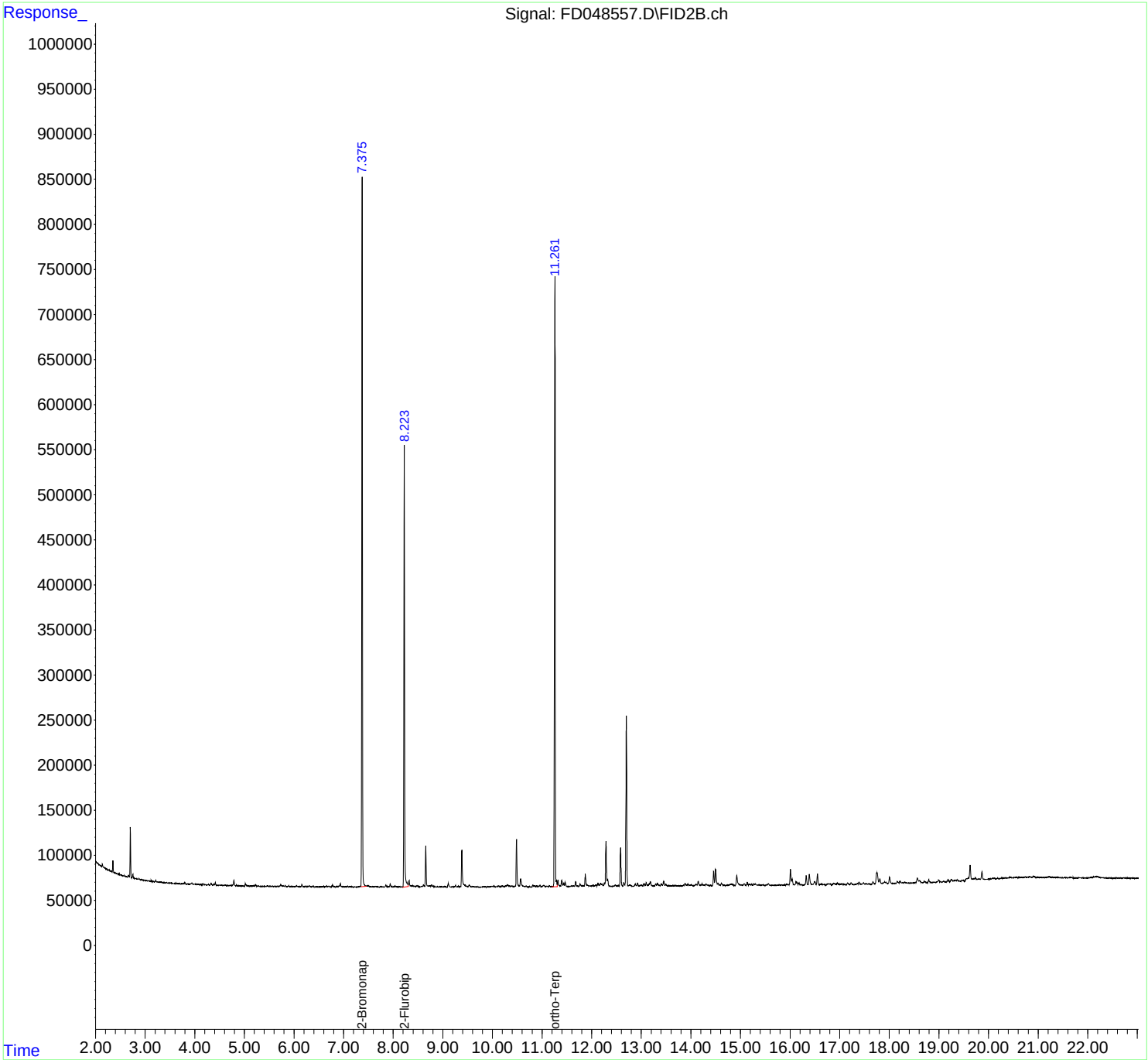
(f)=RT Delta > 1/2 Window (m)=manual int.

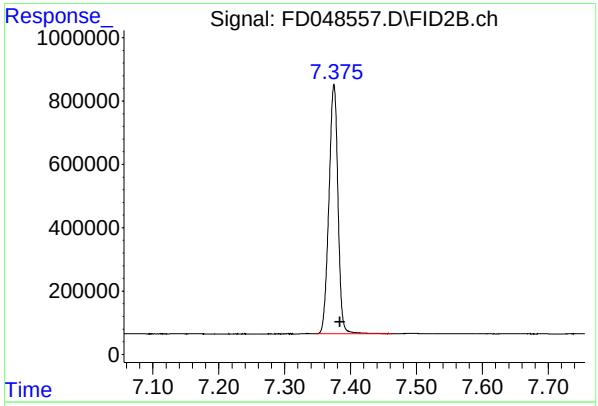
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048557.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 06:40
Operator : YP/AJ
Sample : P4471-01
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-180-SB01

Integration File: autoint1.e
Quant Time: Oct 23 11:14:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

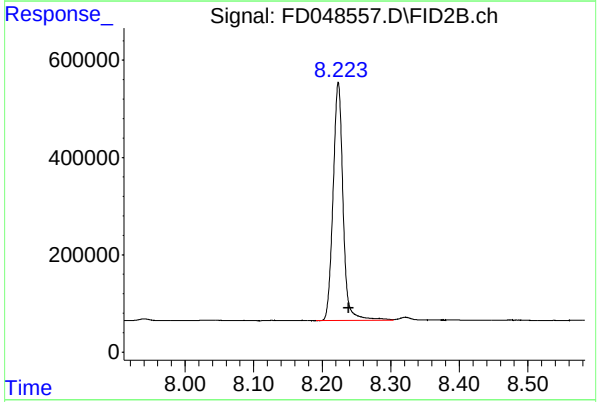




#4 2-Bromonaphthalene (SURR)

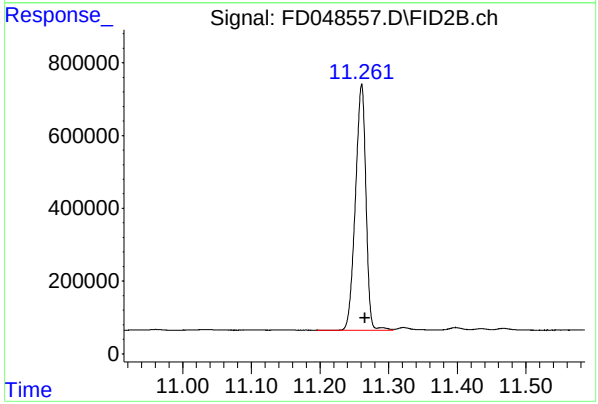
R.T.: 7.375 min
Delta R.T.: -0.010 min
Response: 7508532
Conc: 45.35 ug/ml

Instrument :
FID_D
ClientSampleId :
B-180-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: -0.015 min
Response: 4973975
Conc: 47.96 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.260 min
Delta R.T.: -0.005 min
Response: 7187892
Conc: 39.07 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048557.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 06:40
Sample : P4471-01
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.166	4.152	4.189	PV	1546	14323	0.19%	0.042%
2	4.201	4.189	4.225	PV	453	6157	0.08%	0.018%
3	4.230	4.225	4.242	VV	254	1520	0.02%	0.004%
4	4.275	4.254	4.294	VV	596	6228	0.08%	0.018%
5	4.329	4.294	4.366	PV	2434	33762	0.45%	0.099%
6	4.385	4.366	4.399	VV	1748	18067	0.24%	0.053%
7	4.414	4.399	4.472	VV	3205	35447	0.47%	0.104%
8	4.486	4.472	4.515	VV	625	8763	0.12%	0.026%
9	4.524	4.515	4.562	VV	459	6894	0.09%	0.020%
10	4.582	4.562	4.587	VV	255	2615	0.03%	0.008%
11	4.602	4.587	4.619	VV	636	8502	0.11%	0.025%
12	4.622	4.619	4.643	VV	350	3818	0.05%	0.011%
13	4.649	4.643	4.653	VV	188	1027	0.01%	0.003%
14	4.657	4.653	4.672	VV	310	1771	0.02%	0.005%
15	4.721	4.688	4.734	VV	487	8348	0.11%	0.024%
16	4.767	4.734	4.772	VV	1153	13118	0.17%	0.038%
17	4.788	4.772	4.827	VV	6100	72182	0.95%	0.212%
18	4.842	4.827	4.863	VV	1289	13808	0.18%	0.040%
19	4.877	4.863	4.885	VV	428	3634	0.05%	0.011%
20	4.894	4.885	4.921	VV	258	3434	0.05%	0.010%
21	4.927	4.921	4.934	VV	274	1034	0.01%	0.003%
22	4.942	4.934	4.972	VV	233	3438	0.05%	0.010%
23	4.978	4.972	4.994	VV	343	3162	0.04%	0.009%
24	5.019	4.994	5.054	VV	2851	42489	0.56%	0.125%
25	5.058	5.054	5.079	VV	565	6629	0.09%	0.019%
26	5.081	5.079	5.096	VV	438	3728	0.05%	0.011%
27	5.108	5.096	5.143	VV	420	6227	0.08%	0.018%
28	5.151	5.143	5.172	VV	568	5317	0.07%	0.016%
29	5.188	5.172	5.206	VV	1277	15075	0.20%	0.044%
30	5.228	5.206	5.261	VV	2077	28479	0.38%	0.084%
31	5.287	5.261	5.320	VV	641	11570	0.15%	0.034%
32	5.336	5.320	5.359	PV	282	4561	0.06%	0.013%
33	5.364	5.359	5.395	VV	455	7014	0.09%	0.021%
34	5.404	5.395	5.419	VV	351	2820	0.04%	0.008%
35	5.434	5.419	5.447	VV	436	5623	0.07%	0.016%
36	5.460	5.447	5.504	VV	530	12633	0.17%	0.037%

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37	5.517	5.504	5.549	VV	523	8681	0.11%	0.025%
38	5.581	5.549	5.606	VV	259	5844	0.08%	0.017%
39	5.645	5.632	5.657	PV	260	2363	0.03%	0.007%
40	5.660	5.657	5.673	VV	170	1573	0.02%	0.005%
41	5.679	5.673	5.695	VV	313	2935	0.04%	0.009%
42	5.735	5.695	5.770	VV	2013	39405	0.52%	0.116%
43	5.780	5.770	5.795	VV	905	10327	0.14%	0.030%
44	5.823	5.795	5.850	VV	1605	22401	0.30%	0.066%
45	5.855	5.850	5.865	VV	311	2001	0.03%	0.006%
46	5.869	5.865	5.872	VV	279	1042	0.01%	0.003%
47	5.895	5.872	5.910	VV	1142	14732	0.19%	0.043%
48	5.915	5.910	5.925	VV	256	1347	0.02%	0.004%
49	5.953	5.925	5.975	VV	601	10766	0.14%	0.032%
50	5.982	5.975	5.995	VV	281	2731	0.04%	0.008%
51	5.997	5.995	6.014	VV	316	1690	0.02%	0.005%
52	6.053	6.014	6.101	VV	1375	22788	0.30%	0.067%
53	6.106	6.101	6.116	VV	252	1213	0.02%	0.004%
54	6.123	6.116	6.129	VV	372	1290	0.02%	0.004%
55	6.160	6.136	6.191	VV	2749	31196	0.41%	0.091%
56	6.209	6.191	6.218	VV	369	3688	0.05%	0.011%
57	6.241	6.218	6.262	VV	930	10858	0.14%	0.032%
58	6.279	6.262	6.292	VV	528	5862	0.08%	0.017%
59	6.308	6.292	6.330	VV	1575	17133	0.23%	0.050%
60	6.341	6.330	6.362	VV	446	3946	0.05%	0.012%
61	6.380	6.362	6.417	VV	897	12353	0.16%	0.036%
62	6.419	6.417	6.434	VV	250	1885	0.02%	0.006%
63	6.442	6.434	6.462	VV	282	2342	0.03%	0.007%
64	6.469	6.462	6.501	VV	297	3880	0.05%	0.011%
65	6.516	6.501	6.533	PV	226	1837	0.02%	0.005%
66	6.539	6.533	6.546	VV	225	1037	0.01%	0.003%
67	6.553	6.546	6.567	VV	238	1678	0.02%	0.005%
68	6.597	6.580	6.632	VV	941	11784	0.16%	0.035%
69	6.651	6.632	6.670	VV	1065	15481	0.20%	0.045%
70	6.673	6.670	6.682	VV	593	4049	0.05%	0.012%
71	6.700	6.682	6.735	VV	1034	21552	0.28%	0.063%
72	6.739	6.735	6.748	VV	425	2470	0.03%	0.007%
73	6.778	6.748	6.838	VV	2100	41452	0.55%	0.122%
74	6.847	6.838	6.852	VV	598	4153	0.05%	0.012%
75	6.856	6.852	6.871	VV	595	5800	0.08%	0.017%
76	6.882	6.871	6.890	VV	684	6148	0.08%	0.018%
77	6.908	6.890	6.916	VV	1414	14837	0.20%	0.044%
78	6.935	6.916	6.965	VV	3837	47712	0.63%	0.140%
79	6.972	6.965	6.978	VV	504	3550	0.05%	0.010%
80	6.996	6.978	7.009	VV	658	9714	0.13%	0.028%
81	7.012	7.009	7.031	VV	635	6318	0.08%	0.019%
82	7.044	7.031	7.054	VV	742	7269	0.10%	0.021%
83	7.078	7.054	7.096	VV	1267	16869	0.22%	0.049%
84	7.115	7.096	7.123	VV	452	5356	0.07%	0.016%
85	7.137	7.123	7.151	VV	626	8156	0.11%	0.024%
86	7.165	7.151	7.211	VV	1010	12146	0.16%	0.036%
87	7.228	7.211	7.234	PV	395	3586	0.05%	0.011%
88	7.240	7.234	7.263	VV	387	4048	0.05%	0.012%
89	7.277	7.263	7.282	VV	362	2745	0.04%	0.008%

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90	7.290	7.282	7.296	VV	472	2974	0.04%	0.009%
91	7.305	7.296	7.320	VV	456	4774	0.06%	0.014%
92	7.335	7.320	7.347	VV	1361	14754	0.20%	0.043%
93	7.375	7.347	7.464	VV	788408	7565092	100.00%	22.181%
94	7.495	7.464	7.551	VV	1747	58277	0.77%	0.171%
95	7.555	7.551	7.580	VV	696	9730	0.13%	0.029%
96	7.598	7.580	7.624	VV	802	14959	0.20%	0.044%
97	7.639	7.624	7.681	VV	1070	21783	0.29%	0.064%
98	7.691	7.681	7.718	VV	777	8816	0.12%	0.026%
99	7.732	7.718	7.745	VV	502	6295	0.08%	0.018%
100	7.760	7.745	7.781	VV	631	10449	0.14%	0.031%
101	7.786	7.781	7.789	VV	462	1610	0.02%	0.005%
102	7.792	7.789	7.817	VV	383	4235	0.06%	0.012%
103	7.853	7.817	7.875	VV	2157	35625	0.47%	0.104%
104	7.886	7.875	7.905	VV	930	10349	0.14%	0.030%
105	7.940	7.905	7.964	VV	3799	48064	0.64%	0.141%
106	7.970	7.964	7.982	VV	619	4549	0.06%	0.013%
107	8.001	7.982	8.011	VV	618	7239	0.10%	0.021%
108	8.028	8.011	8.069	VV	1075	25562	0.34%	0.075%
109	8.088	8.069	8.110	VV	627	9729	0.13%	0.029%
110	8.127	8.110	8.147	VV	824	9830	0.13%	0.029%
111	8.152	8.147	8.155	VV	192	1024	0.01%	0.003%
112	8.171	8.155	8.190	VV	657	7748	0.10%	0.023%
113	8.224	8.190	8.278	VV	490100	4950910	65.44%	14.516%
114	8.283	8.278	8.305	VV	4597	58416	0.77%	0.171%
115	8.321	8.305	8.354	VV	7259	106179	1.40%	0.311%
116	8.359	8.354	8.375	VV	1614	19932	0.26%	0.058%
117	8.389	8.375	8.419	VV	1670	35837	0.47%	0.105%
118	8.429	8.419	8.443	VV	1254	15524	0.21%	0.046%
119	8.474	8.443	8.533	VV	1425	51684	0.68%	0.152%
120	8.539	8.533	8.554	VV	768	5980	0.08%	0.018%
121	8.573	8.554	8.591	VV	1153	18894	0.25%	0.055%
122	8.610	8.591	8.631	VV	2329	38228	0.51%	0.112%
123	8.658	8.631	8.708	VV	46155	495383	6.55%	1.452%
124	8.728	8.708	8.749	VV	1795	33334	0.44%	0.098%
125	8.771	8.749	8.795	VV	2688	47964	0.63%	0.141%
126	8.808	8.795	8.828	VV	1196	17117	0.23%	0.050%
127	8.841	8.828	8.875	VV	834	11408	0.15%	0.033%
128	8.889	8.875	8.918	VV	966	12550	0.17%	0.037%
129	8.930	8.918	8.946	PV	600	6978	0.09%	0.020%
130	8.949	8.946	8.955	VV	429	2080	0.03%	0.006%
131	8.974	8.955	9.004	VV	789	14248	0.19%	0.042%
132	9.032	9.004	9.049	VV	781	14902	0.20%	0.044%
133	9.057	9.049	9.089	VV	659	8661	0.11%	0.025%
134	9.111	9.089	9.165	VV	4090	65458	0.87%	0.192%
135	9.188	9.165	9.205	VV	944	13889	0.18%	0.041%
136	9.228	9.205	9.237	VV	733	9723	0.13%	0.029%
137	9.257	9.237	9.285	VV	1984	28887	0.38%	0.085%
138	9.318	9.285	9.342	VV	1025	20636	0.27%	0.061%
139	9.356	9.342	9.364	VV	878	8180	0.11%	0.024%
140	9.384	9.364	9.441	VV	41077	543866	7.19%	1.595%
141	9.444	9.441	9.506	VV	2259	48391	0.64%	0.142%

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142	9.532	9.506	9.574	VV	2614	51805	0.68%	0.152%
143	9.600	9.574	9.606	VV	803	11768	0.16%	0.035%
144	9.616	9.606	9.650	VV	860	11949	0.16%	0.035%
145	9.679	9.650	9.683	VV	406	4605	0.06%	0.014%
146	9.693	9.683	9.719	VV	608	6024	0.08%	0.018%
147	9.728	9.719	9.739	PV	157	1419	0.02%	0.004%
148	9.753	9.739	9.759	VV	144	1407	0.02%	0.004%
149	9.799	9.759	9.807	VV	385	6528	0.09%	0.019%
150	9.812	9.807	9.827	VV	471	3672	0.05%	0.011%
151	9.836	9.827	9.840	VV	553	3463	0.05%	0.010%
152	9.847	9.840	9.874	VV	604	7157	0.09%	0.021%
153	9.881	9.874	9.890	VV	442	2655	0.04%	0.008%
154	9.913	9.890	9.937	VV	610	11503	0.15%	0.034%
155	9.952	9.937	9.968	VV	697	9742	0.13%	0.029%
156	9.990	9.968	10.012	VV	1234	21799	0.29%	0.064%
157	10.031	10.012	10.071	VV	1735	26611	0.35%	0.078%
158	10.098	10.071	10.112	VV	1139	17042	0.23%	0.050%
159	10.123	10.112	10.132	VV	1033	10362	0.14%	0.030%
160	10.147	10.132	10.166	VV	951	15080	0.20%	0.044%
161	10.192	10.166	10.205	VV	1345	22846	0.30%	0.067%
162	10.210	10.205	10.216	VV	1157	7117	0.09%	0.021%
163	10.225	10.216	10.244	VV	998	13740	0.18%	0.040%
164	10.266	10.244	10.279	VV	1765	25469	0.34%	0.075%
165	10.304	10.279	10.334	VV	2353	54809	0.72%	0.161%
166	10.345	10.334	10.360	VV	1296	16470	0.22%	0.048%
167	10.390	10.360	10.412	VV	1608	34333	0.45%	0.101%
168	10.422	10.412	10.430	VV	714	6926	0.09%	0.020%
169	10.435	10.430	10.446	VV	773	6129	0.08%	0.018%
170	10.487	10.446	10.547	VV	53127	659573	8.72%	1.934%
171	10.570	10.547	10.617	VV	9632	161126	2.13%	0.472%
172	10.620	10.617	10.638	VV	1198	12956	0.17%	0.038%
173	10.643	10.638	10.656	VV	1017	9117	0.12%	0.027%
174	10.673	10.656	10.707	VV	1131	22755	0.30%	0.067%
175	10.711	10.707	10.730	VV	526	5968	0.08%	0.017%
176	10.741	10.730	10.756	VV	521	5180	0.07%	0.015%
177	10.763	10.756	10.789	VV	314	2539	0.03%	0.007%
178	10.813	10.789	10.860	PV	2167	45383	0.60%	0.133%
179	10.864	10.860	10.875	VV	882	7419	0.10%	0.022%
180	10.894	10.875	10.920	VV	1758	27418	0.36%	0.080%
181	10.931	10.920	10.945	VV	1088	13046	0.17%	0.038%
182	10.961	10.945	10.988	VV	2293	30601	0.40%	0.090%
183	11.034	10.988	11.059	VV	1914	45279	0.60%	0.133%
184	11.063	11.059	11.077	VV	731	6240	0.08%	0.018%
185	11.097	11.077	11.107	VV	844	12271	0.16%	0.036%
186	11.111	11.107	11.129	VV	876	8960	0.12%	0.026%
187	11.152	11.129	11.192	VV	996	23822	0.31%	0.070%
188	11.197	11.192	11.204	VV	453	2512	0.03%	0.007%
189	11.261	11.204	11.284	VV	674582	7133372	94.29%	20.915%
190	11.290	11.284	11.306	VV	7307	72539	0.96%	0.213%
191	11.322	11.306	11.373	VV	7652	119662	1.58%	0.351%
192	11.397	11.373	11.418	VV	7354	103116	1.36%	0.302%
193	11.434	11.418	11.451	VV	4318	57825	0.76%	0.170%
194	11.468	11.451	11.515	VV	5122	78773	1.04%	0.231%

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195	11.548	11.515	11.564	VV	489	10504	0.14%	0.031%
196	11.590	11.564	11.609	VV	1100	21774	0.29%	0.064%
197	11.613	11.609	11.630	VV	937	10406	0.14%	0.031%
198	11.641	11.630	11.656	VV	874	11213	0.15%	0.033%
199	11.678	11.656	11.705	VV	5746	73827	0.98%	0.216%
200	11.710	11.705	11.736	VV	865	11905	0.16%	0.035%
201	11.766	11.736	11.802	VV	3113	59221	0.78%	0.174%
202	11.813	11.802	11.826	VV	1181	15850	0.21%	0.046%
203	11.833	11.826	11.853	VV	1411	15949	0.21%	0.047%
204	11.874	11.853	11.918	VV	14237	189717	2.51%	0.556%
205	11.924	11.918	11.944	VV	1711	21033	0.28%	0.062%
206	11.951	11.944	11.972	VV	1448	17242	0.23%	0.051%
207	11.978	11.972	11.980	VV	701	2946	0.04%	0.009%
208	11.987	11.980	11.995	VV	775	5898	0.08%	0.017%
209	12.029	11.995	12.058	VV	1438	40523	0.54%	0.119%
210	12.080	12.058	12.107	VV	1919	41949	0.55%	0.123%
211	12.128	12.107	12.144	VV	3968	55077	0.73%	0.161%
212	12.180	12.144	12.193	VV	4146	76367	1.01%	0.224%
213	12.204	12.193	12.232	VV	2804	48455	0.64%	0.142%
214	12.259	12.232	12.268	VV	4152	60870	0.80%	0.178%
215	12.289	12.268	12.313	VV	50235	614439	8.12%	1.802%
216	12.323	12.313	12.363	VV	8381	111692	1.48%	0.327%
217	12.368	12.363	12.379	VV	590	4321	0.06%	0.013%
218	12.392	12.379	12.402	VV	562	6139	0.08%	0.018%
219	12.404	12.402	12.431	VV	462	5013	0.07%	0.015%
220	12.446	12.431	12.452	VV	442	4487	0.06%	0.013%
221	12.479	12.452	12.508	VV	1886	36465	0.48%	0.107%
222	12.524	12.508	12.549	VV	941	18579	0.25%	0.054%
223	12.583	12.549	12.629	VV	43093	527270	6.97%	1.546%
224	12.650	12.629	12.669	VV	4259	60401	0.80%	0.177%
225	12.700	12.669	12.733	VV	189520	2214203	29.27%	6.492%
226	12.776	12.733	12.815	VV	1977	54285	0.72%	0.159%
227	12.818	12.815	12.836	VV	348	2695	0.04%	0.008%
228	12.877	12.836	12.903	VV	2523	46218	0.61%	0.136%
229	12.925	12.903	12.952	VV	3800	54943	0.73%	0.161%
230	12.957	12.952	12.969	VV	735	6166	0.08%	0.018%
231	12.997	12.969	13.031	VV	1704	38603	0.51%	0.113%
232	13.055	13.031	13.079	VV	3049	53247	0.70%	0.156%
233	13.100	13.079	13.139	VV	4497	72944	0.96%	0.214%
234	13.157	13.139	13.162	VV	2517	27055	0.36%	0.079%
235	13.184	13.162	13.232	VV	5367	101577	1.34%	0.298%
236	13.251	13.232	13.265	VV	806	12678	0.17%	0.037%
237	13.291	13.265	13.308	VV	2877	41005	0.54%	0.120%
238	13.326	13.308	13.346	VV	3582	50491	0.67%	0.148%
239	13.358	13.346	13.377	VV	1373	19141	0.25%	0.056%
240	13.404	13.377	13.421	VV	2686	42813	0.57%	0.126%
241	13.452	13.421	13.475	VV	5774	90911	1.20%	0.267%
242	13.495	13.475	13.533	VV	2383	47163	0.62%	0.138%
243	13.543	13.533	13.594	VV	779	17632	0.23%	0.052%
244	13.619	13.594	13.652	VV	713	16192	0.21%	0.047%
245	13.663	13.652	13.673	VV	748	7367	0.10%	0.022%
246	13.679	13.673	13.691	VV	622	5921	0.08%	0.017%

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247	13.694	13.691	13.700	VV	550	2993	0.04%	0.009%
248	13.714	13.700	13.726	VV	627	7501	0.10%	0.022%
249	13.733	13.726	13.739	VV	360	2154	0.03%	0.006%
250	13.746	13.739	13.760	VV	430	4019	0.05%	0.012%
251	13.775	13.760	13.790	VV	501	5966	0.08%	0.017%
252	13.799	13.790	13.826	VV	399	5229	0.07%	0.015%
253	13.883	13.826	13.920	VV	2880	71724	0.95%	0.210%
254	13.937	13.920	13.974	VV	2269	43615	0.58%	0.128%
255	14.013	13.974	14.057	VV	1595	45130	0.60%	0.132%
256	14.097	14.057	14.127	VV	1787	48148	0.64%	0.141%
257	14.148	14.127	14.203	VV	5287	100233	1.32%	0.294%
258	14.225	14.203	14.243	VV	2436	35786	0.47%	0.105%
259	14.260	14.243	14.287	VV	1321	27267	0.36%	0.080%
260	14.304	14.287	14.340	VV	2493	45556	0.60%	0.134%
261	14.349	14.340	14.376	VV	1052	14755	0.20%	0.043%
262	14.390	14.376	14.404	VV	699	7084	0.09%	0.021%
263	14.406	14.404	14.418	VV	474	3284	0.04%	0.010%
264	14.458	14.418	14.478	VV	16354	214754	2.84%	0.630%
265	14.497	14.478	14.533	VV	18432	296544	3.92%	0.869%
266	14.548	14.533	14.575	VV	3110	50182	0.66%	0.147%
267	14.616	14.575	14.656	VV	3021	75768	1.00%	0.222%
268	14.663	14.656	14.689	VV	929	14036	0.19%	0.041%
269	14.693	14.689	14.705	VV	623	4652	0.06%	0.014%
270	14.725	14.705	14.735	VV	802	11825	0.16%	0.035%
271	14.741	14.735	14.744	VV	833	3886	0.05%	0.011%
272	14.808	14.744	14.824	VV	1813	57591	0.76%	0.169%
273	14.833	14.824	14.885	VV	1718	33841	0.45%	0.099%
274	14.924	14.885	14.997	VV	11267	228532	3.02%	0.670%
275	15.004	14.997	15.040	VV	1002	20391	0.27%	0.060%
276	15.074	15.040	15.113	VV	2296	55702	0.74%	0.163%
277	15.136	15.113	15.162	VV	3881	58591	0.77%	0.172%
278	15.174	15.162	15.204	VV	1857	35171	0.46%	0.103%
279	15.219	15.204	15.244	VV	1346	25362	0.34%	0.074%
280	15.267	15.244	15.284	VV	1929	33927	0.45%	0.099%
281	15.299	15.284	15.344	VV	1829	39646	0.52%	0.116%
282	15.369	15.344	15.379	VV	905	16161	0.21%	0.047%
283	15.387	15.379	15.402	VV	852	10197	0.13%	0.030%
284	15.413	15.402	15.425	VV	695	8561	0.11%	0.025%
285	15.439	15.425	15.447	VV	797	8822	0.12%	0.026%
286	15.463	15.447	15.499	VV	1015	17712	0.23%	0.052%
287	15.528	15.499	15.541	VV	1139	17227	0.23%	0.051%
288	15.563	15.541	15.601	VV	2280	39638	0.52%	0.116%
289	15.607	15.601	15.614	VV	421	2519	0.03%	0.007%
290	15.620	15.614	15.627	VV	382	2163	0.03%	0.006%
291	15.633	15.627	15.650	VV	303	2570	0.03%	0.008%
292	15.657	15.650	15.682	VV	267	1923	0.03%	0.006%
293	15.693	15.682	15.699	VV	260	1316	0.02%	0.004%
294	15.738	15.699	15.758	PV	585	12447	0.16%	0.036%
295	15.780	15.758	15.797	VV	839	11717	0.15%	0.034%
296	15.803	15.797	15.820	VV	352	4924	0.07%	0.014%
297	15.833	15.820	15.855	VV	623	8003	0.11%	0.023%
298	15.884	15.855	15.896	VV	678	10297	0.14%	0.030%
299	15.900	15.896	15.910	VV	615	4260	0.06%	0.012%

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300	15.933	15.910	15.975	VV	1756	39749	0.53%	0.117%
301	16.006	15.975	16.027	VV	17957	244790	3.24%	0.718%
302	16.039	16.027	16.092	VV	7187	119015	1.57%	0.349%
303	16.118	16.092	16.134	VV	4350	63554	0.84%	0.186%
304	16.141	16.134	16.161	VV	3268	38133	0.50%	0.112%
305	16.179	16.161	16.213	VV	2440	42637	0.56%	0.125%
306	16.231	16.213	16.248	VV	777	12655	0.17%	0.037%
307	16.273	16.248	16.277	VV	591	8684	0.11%	0.025%
308	16.281	16.277	16.289	VV	537	3227	0.04%	0.009%
309	16.324	16.289	16.360	VV	10741	150806	1.99%	0.442%
310	16.385	16.360	16.457	VV	12172	216039	2.86%	0.633%
311	16.496	16.457	16.525	VV	3772	94355	1.25%	0.277%
312	16.551	16.525	16.609	VV	12622	181817	2.40%	0.533%
313	16.637	16.609	16.650	VV	1056	19587	0.26%	0.057%
314	16.663	16.650	16.684	VV	910	13831	0.18%	0.041%
315	16.693	16.684	16.726	VV	557	7431	0.10%	0.022%
316	16.758	16.726	16.770	PV	1172	18157	0.24%	0.053%
317	16.780	16.770	16.791	VV	1105	12977	0.17%	0.038%
318	16.805	16.791	16.835	VV	1188	20244	0.27%	0.059%
319	16.887	16.835	16.912	VV	1655	40533	0.54%	0.119%
320	16.916	16.912	16.930	VV	859	8457	0.11%	0.025%
321	16.953	16.930	16.979	VV	2139	37178	0.49%	0.109%
322	16.993	16.979	17.020	VV	872	15485	0.20%	0.045%
323	17.044	17.020	17.071	VV	1355	24923	0.33%	0.073%
324	17.081	17.071	17.122	VV	714	12037	0.16%	0.035%
325	17.134	17.122	17.138	VV	220	1548	0.02%	0.005%
326	17.160	17.138	17.205	VV	2108	37961	0.50%	0.111%
327	17.230	17.205	17.258	VV	2206	33472	0.44%	0.098%
328	17.261	17.258	17.274	VV	318	1871	0.02%	0.005%
329	17.295	17.287	17.307	VV	196	1364	0.02%	0.004%
330	17.322	17.307	17.328	PV	472	4045	0.05%	0.012%
331	17.360	17.328	17.372	VV	1183	21978	0.29%	0.064%
332	17.389	17.372	17.415	VV	2768	42758	0.57%	0.125%
333	17.433	17.415	17.450	VV	910	13560	0.18%	0.040%
334	17.478	17.450	17.519	VV	2128	41325	0.55%	0.121%
335	17.535	17.519	17.562	VV	699	13322	0.18%	0.039%
336	17.588	17.562	17.630	VV	698	15775	0.21%	0.046%
337	17.670	17.630	17.714	PV	2689	53286	0.70%	0.156%
338	17.755	17.714	17.787	VV	12755	317587	4.20%	0.931%
339	17.808	17.787	17.838	VV	5681	103956	1.37%	0.305%
340	17.851	17.838	17.862	VV	934	11671	0.15%	0.034%
341	17.867	17.862	17.872	VV	781	4282	0.06%	0.013%
342	17.903	17.872	17.919	VV	2074	41647	0.55%	0.122%
343	17.931	17.919	17.972	VV	1648	31076	0.41%	0.091%
344	18.005	17.972	18.061	VV	7273	120274	1.59%	0.353%
345	18.066	18.061	18.072	VV	354	1485	0.02%	0.004%
346	18.088	18.072	18.110	VV	452	4679	0.06%	0.014%
347	18.159	18.130	18.197	PV	1857	29136	0.39%	0.085%

Sum of corrected areas: 34106265

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067495.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 07:17
Operator : YP/AJ
Sample : P4471-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-180-SB02

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Supervised By :Ankita Jodhani 10/24/2024

Integration File: autoint1.e
Quant Time: Oct 23 11:05:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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...	12.934	2582219	22.812 ug/mlm
Spiked Amount 50.000		Recovery = 45.62%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

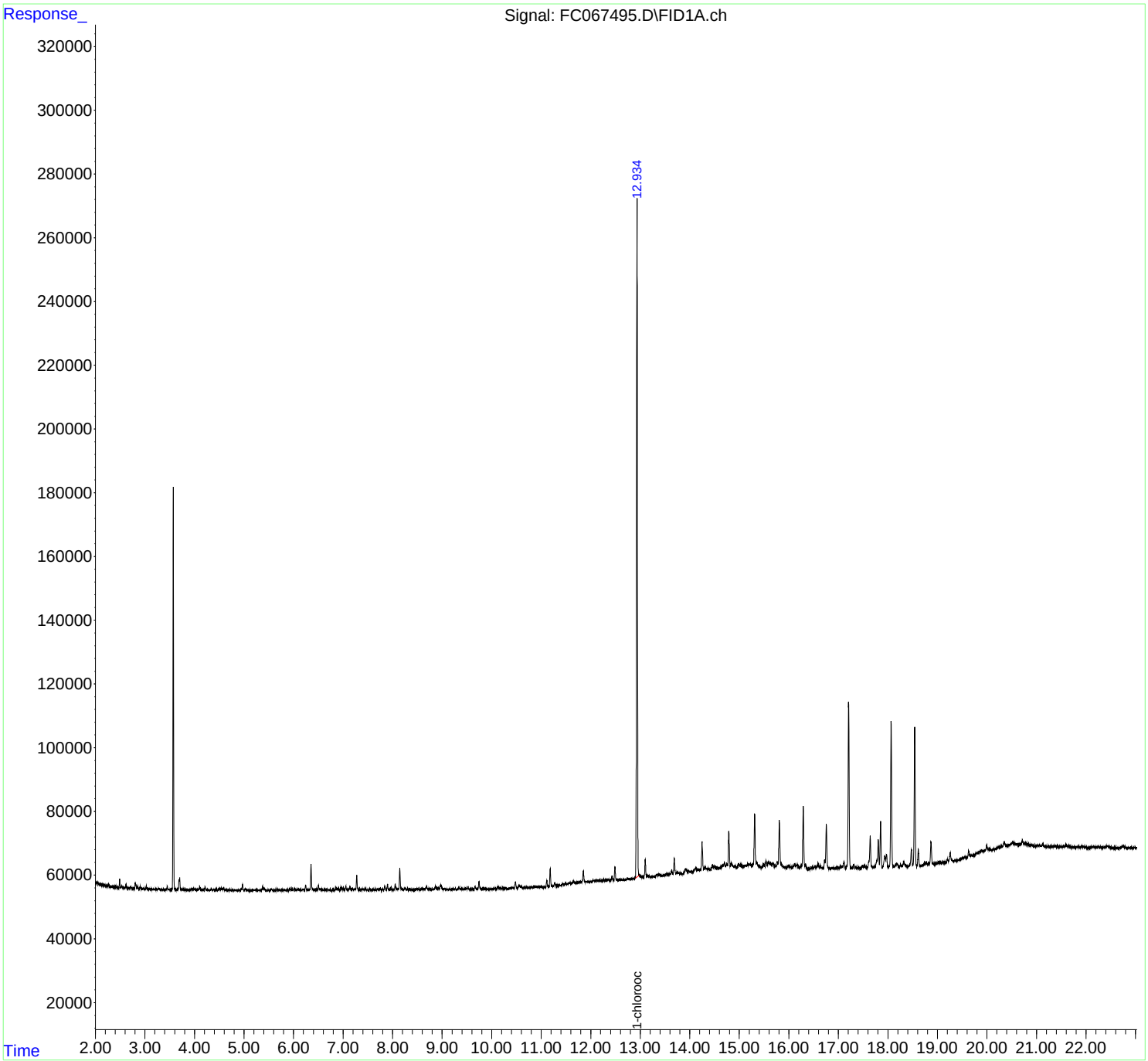
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067495.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 07:17
Operator : YP/AJ
Sample : P4471-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

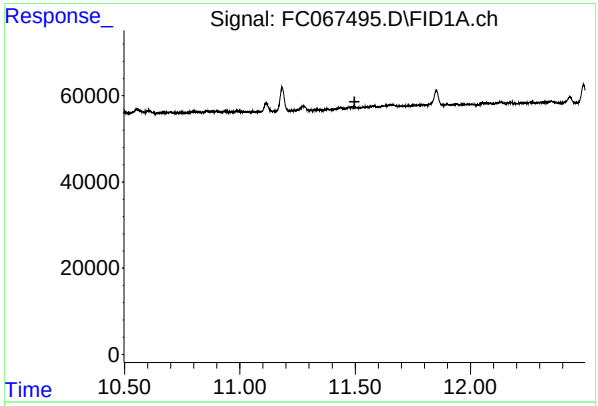
Instrument :
FID_C
ClientSampleId :
B-180-SB02

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/24/2024

Integration File: autoint1.e
Quant Time: Oct 23 11:05:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





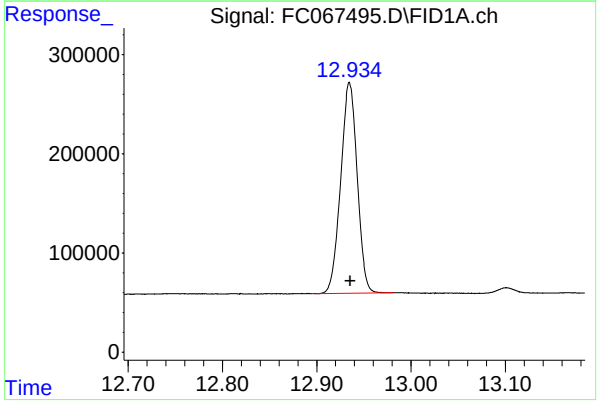
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-180-SB02

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#12 1-chlorooctadecane (SURR)

R.T.: 12.934 min
Delta R.T.: -0.001 min
Response: 2582219
Conc: 22.81 ug/ml m

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Instrument :
FID_C
ClientSampleId :
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rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10222
Data File : FC067495.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 07:17
Sample : P4471-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.235	3.204	3.249	BV	109	1189	0.04%	0.006%
2	3.275	3.249	3.318	PV	405	4623	0.17%	0.023%
3	3.332	3.318	3.360	PV	106	1530	0.06%	0.008%
4	3.372	3.360	3.407	VV	126	1581	0.06%	0.008%
5	3.450	3.407	3.507	VV	1268	12926	0.47%	0.064%
6	3.517	3.507	3.526	PV	70	281	0.01%	0.001%
7	3.571	3.526	3.622	VV	125412	1090024	39.75%	5.423%
8	3.647	3.622	3.660	VV	168	2796	0.10%	0.014%
9	3.700	3.660	3.747	VV	3845	61789	2.25%	0.307%
10	3.766	3.747	3.798	VV	277	4846	0.18%	0.024%
11	3.807	3.798	3.834	VV	159	2254	0.08%	0.011%
12	3.848	3.834	3.905	VV	250	3807	0.14%	0.019%
13	3.940	3.905	3.954	PV	369	4433	0.16%	0.022%
14	3.968	3.954	3.978	VV	502	4648	0.17%	0.023%
15	3.988	3.978	4.021	VV	513	6636	0.24%	0.033%
16	4.034	4.021	4.048	VV	237	2545	0.09%	0.013%
17	4.060	4.048	4.071	VV	172	1753	0.06%	0.009%
18	4.106	4.071	4.194	VV	924	17945	0.65%	0.089%
19	4.215	4.194	4.236	VV	1101	12026	0.44%	0.060%
20	4.250	4.236	4.262	VV	224	2704	0.10%	0.013%
21	4.267	4.262	4.275	VV	182	1140	0.04%	0.006%
22	4.290	4.275	4.307	VV	201	1830	0.07%	0.009%
23	4.339	4.307	4.366	VV	669	8970	0.33%	0.045%
24	4.379	4.366	4.402	VV	220	3107	0.11%	0.015%
25	4.442	4.402	4.468	VV	500	8418	0.31%	0.042%
26	4.506	4.468	4.523	VV	672	10929	0.40%	0.054%
27	4.539	4.523	4.550	VV	616	6838	0.25%	0.034%
28	4.563	4.550	4.577	VV	738	7649	0.28%	0.038%
29	4.592	4.577	4.609	VV	971	9325	0.34%	0.046%
30	4.619	4.609	4.645	VV	223	3353	0.12%	0.017%
31	4.689	4.645	4.695	VV	185	4085	0.15%	0.020%
32	4.713	4.695	4.734	VV	253	4585	0.17%	0.023%
33	4.740	4.734	4.762	VV	204	2143	0.08%	0.011%
34	4.782	4.762	4.790	PV	161	1936	0.07%	0.010%
35	4.807	4.790	4.851	VV	285	4864	0.18%	0.024%
36	4.858	4.851	4.883	VV	103	1722	0.06%	0.009%

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Instrument :
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rteres

37	4.894	4.883	4.910	VV	188	2070	0.08%	0.010%
38	4.970	4.910	5.000	VV	1957	28121	1	
39	5.026	5.000	5.068	VV	522	10543	0	
40	5.078	5.068	5.120	VV	257	4244	0	
41	5.176	5.120	5.223	VV	252	10332	0	
42	5.237	5.223	5.255	VV	242	3372	0	
43	5.265	5.255	5.279	VV	161	2003	0.07%	0.010%
44	5.374	5.279	5.388	VV	1415	20003	0.73%	0.100%
45	5.412	5.388	5.458	VV	699	14454	0.53%	0.072%
46	5.473	5.458	5.486	VV	202	1636	0.06%	0.008%
47	5.498	5.486	5.521	VV	111	1358	0.05%	0.007%
48	5.555	5.521	5.581	PV	639	8610	0.31%	0.043%
49	5.663	5.581	5.704	VV	370	11695	0.43%	0.058%
50	5.718	5.704	5.733	VV	231	2305	0.08%	0.011%
51	5.763	5.733	5.779	VV	429	5307	0.19%	0.026%
52	5.784	5.779	5.797	VV	196	1206	0.04%	0.006%
53	5.821	5.797	5.851	VV	217	4575	0.17%	0.023%
54	5.864	5.851	5.893	VV	243	4604	0.17%	0.023%
55	5.923	5.893	5.951	VV	571	11482	0.42%	0.057%
56	5.971	5.951	5.996	VV	593	9634	0.35%	0.048%
57	6.014	5.996	6.044	VV	794	11618	0.42%	0.058%
58	6.075	6.044	6.122	VV	615	14026	0.51%	0.070%
59	6.137	6.122	6.152	VV	222	3393	0.12%	0.017%
60	6.188	6.152	6.217	VV	393	8311	0.30%	0.041%
61	6.245	6.217	6.275	VV	1795	24210	0.88%	0.120%
62	6.284	6.275	6.301	VV	349	3501	0.13%	0.017%
63	6.354	6.301	6.424	VV	8282	99318	3.62%	0.494%
64	6.441	6.424	6.462	VV	495	6529	0.24%	0.032%
65	6.474	6.462	6.484	VV	375	3851	0.14%	0.019%
66	6.503	6.484	6.528	VV	1679	20381	0.74%	0.101%
67	6.538	6.528	6.561	VV	341	4892	0.18%	0.024%
68	6.574	6.561	6.599	VV	509	5890	0.21%	0.029%
69	6.625	6.599	6.656	VV	243	4682	0.17%	0.023%
70	6.676	6.656	6.700	VV	501	7388	0.27%	0.037%
71	6.712	6.700	6.727	VV	235	2576	0.09%	0.013%
72	6.743	6.727	6.778	VV	237	3906	0.14%	0.019%
73	6.796	6.778	6.827	PV	381	6179	0.23%	0.031%
74	6.851	6.827	6.891	VV	718	17100	0.62%	0.085%
75	6.911	6.891	6.935	VV	736	12238	0.45%	0.061%
76	6.957	6.935	6.995	VV	928	18602	0.68%	0.093%
77	7.013	6.995	7.032	VV	672	7344	0.27%	0.037%
78	7.055	7.032	7.092	VV	1318	16908	0.62%	0.084%
79	7.137	7.092	7.180	VV	1220	21363	0.78%	0.106%
80	7.196	7.180	7.213	VV	307	5401	0.20%	0.027%
81	7.228	7.213	7.253	VV	423	8022	0.29%	0.040%
82	7.277	7.253	7.306	VV	4751	54930	2.00%	0.273%
83	7.337	7.306	7.353	VV	381	7375	0.27%	0.037%
84	7.367	7.353	7.388	VV	415	5431	0.20%	0.027%
85	7.401	7.388	7.417	VV	283	4087	0.15%	0.020%
86	7.448	7.417	7.478	VV	614	10438	0.38%	0.052%
87	7.485	7.478	7.512	VV	123	1550	0.06%	0.008%
88	7.537	7.512	7.574	VV	670	8151	0.30%	0.041%
89	7.612	7.574	7.631	VV	354	7013	0.26%	0.035%

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Instrument :
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90	7.639	7.631	7.671	VV	285	4046	0.15%	0.020%
91	7.701	7.671	7.718	VV	362	4780		
92	7.730	7.718	7.742	VV	447	4824		
93	7.756	7.742	7.774	VV	513	5903		
94	7.797	7.774	7.818	VV	552	6026		
95	7.843	7.818	7.868	VV	1424	16496		
96	7.899	7.868	7.924	VV	1963	22544	0.82%	0.112%
97	7.935	7.924	7.948	VV	256	1919	0.07%	0.010%
98	7.968	7.948	7.986	VV	949	10372	0.38%	0.052%
99	8.001	7.986	8.022	VV	341	3967	0.14%	0.020%
100	8.053	8.022	8.117	VV	1807	31230	1.14%	0.155%
101	8.146	8.117	8.218	VV	6880	90980	3.32%	0.453%
102	8.245	8.218	8.280	VV	411	11225	0.41%	0.056%
103	8.297	8.280	8.321	VV	406	6001	0.22%	0.030%
104	8.340	8.321	8.360	VV	306	3741	0.14%	0.019%
105	8.379	8.360	8.414	VV	295	3807	0.14%	0.019%
106	8.436	8.414	8.448	PV	120	1129	0.04%	0.006%
107	8.497	8.448	8.530	VV	340	10513	0.38%	0.052%
108	8.560	8.530	8.580	VV	289	7187	0.26%	0.036%
109	8.598	8.580	8.621	VV	440	8285	0.30%	0.041%
110	8.635	8.621	8.648	VV	513	6061	0.22%	0.030%
111	8.682	8.648	8.718	VV	1161	22074	0.81%	0.110%
112	8.734	8.718	8.781	VV	344	6202	0.23%	0.031%
113	8.799	8.781	8.818	PV	247	3413	0.12%	0.017%
114	8.866	8.818	8.888	VV	1257	20883	0.76%	0.104%
115	8.905	8.888	8.916	VV	502	7259	0.26%	0.036%
116	8.970	8.916	9.034	VV	1517	44730	1.63%	0.223%
117	9.053	9.034	9.088	VV	415	6589	0.24%	0.033%
118	9.107	9.088	9.136	VV	252	3102	0.11%	0.015%
119	9.151	9.136	9.190	VV	137	3664	0.13%	0.018%
120	9.209	9.190	9.236	VV	222	4769	0.17%	0.024%
121	9.267	9.236	9.308	VV	448	8863	0.32%	0.044%
122	9.337	9.308	9.374	VV	761	14981	0.55%	0.075%
123	9.387	9.374	9.416	VV	368	6048	0.22%	0.030%
124	9.430	9.416	9.448	VV	259	3650	0.13%	0.018%
125	9.474	9.448	9.504	VV	464	9828	0.36%	0.049%
126	9.525	9.504	9.555	VV	968	13250	0.48%	0.066%
127	9.580	9.555	9.601	VV	194	3367	0.12%	0.017%
128	9.614	9.601	9.634	VV	224	1872	0.07%	0.009%
129	9.665	9.634	9.721	PV	1100	18183	0.66%	0.090%
130	9.745	9.721	9.798	VV	2516	34055	1.24%	0.169%
131	9.826	9.798	9.838	PV	243	4291	0.16%	0.021%
132	9.842	9.838	9.897	VV	238	4676	0.17%	0.023%
133	9.950	9.897	9.961	VV	152	2636	0.10%	0.013%
134	10.022	9.961	10.034	VV	168	2276	0.08%	0.011%
135	10.065	10.034	10.074	VV	187	2178	0.08%	0.011%
136	10.133	10.074	10.157	VV	683	14260	0.52%	0.071%
137	10.172	10.157	10.196	VV	318	4720	0.17%	0.023%
138	10.224	10.196	10.244	VV	280	5076	0.19%	0.025%
139	10.277	10.244	10.305	VV	260	4499	0.16%	0.022%
140	10.342	10.305	10.353	PV	166	1917	0.07%	0.010%
141	10.379	10.353	10.395	VV	157	3450	0.13%	0.017%

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Instrument :
FID_C
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					rteres			
142	10.416	10.395	10.443	VV	323	5490	0.20%	0.027%
143	10.482	10.443	10.521	VV	2119	31246	1	
144	10.555	10.521	10.584	VV	1025	21116	0	
145	10.605	10.584	10.641	VV	527	10520	0	
146	10.701	10.641	10.728	VV	197	6277	0	
147	10.763	10.728	10.778	VV	127	1977	0	
148	10.802	10.778	10.837	PV	315	6486	0.24%	0.032%
149	10.877	10.837	10.924	VV	331	11755	0.43%	0.058%
150	10.936	10.924	10.968	VV	357	4456	0.16%	0.022%
151	10.988	10.968	11.018	VV	436	5626	0.21%	0.028%
152	11.023	11.018	11.043	VV	86	772	0.03%	0.004%
153	11.079	11.043	11.091	PV	86	1370	0.05%	0.007%
154	11.114	11.091	11.143	VV	2099	27108	0.99%	0.135%
155	11.183	11.143	11.214	VV	5578	73867	2.69%	0.367%
156	11.227	11.214	11.238	VV	211	2947	0.11%	0.015%
157	11.276	11.238	11.314	VV	1224	24360	0.89%	0.121%
158	11.338	11.314	11.364	VV	407	8200	0.30%	0.041%
159	11.436	11.364	11.451	VV	749	22457	0.82%	0.112%
160	11.486	11.451	11.518	VV	743	25775	0.94%	0.128%
161	11.580	11.518	11.600	VV	956	37290	1.36%	0.186%
162	11.663	11.600	11.705	VV	1218	60356	2.20%	0.300%
163	11.790	11.705	11.806	VV	1070	56315	2.05%	0.280%
164	11.852	11.806	11.884	VV	4478	91629	3.34%	0.456%
165	11.898	11.884	11.911	VV	1066	16021	0.58%	0.080%
166	11.939	11.911	11.954	VV	1157	26530	0.97%	0.132%
167	11.968	11.954	12.030	VV	1062	43975	1.60%	0.219%
168	12.061	12.030	12.098	VV	1298	45906	1.67%	0.228%
169	12.128	12.098	12.154	VV	1451	40135	1.46%	0.200%
170	12.174	12.154	12.204	VV	1280	33091	1.21%	0.165%
171	12.216	12.204	12.226	VV	1120	13897	0.51%	0.069%
172	12.263	12.226	12.286	VV	1300	41157	1.50%	0.205%
173	12.315	12.286	12.328	VV	1176	28305	1.03%	0.141%
174	12.350	12.328	12.391	VV	1411	43785	1.60%	0.218%
175	12.431	12.391	12.464	VV	2273	60555	2.21%	0.301%
176	12.490	12.464	12.542	VV	5131	97234	3.55%	0.484%
177	12.556	12.542	12.568	VV	1118	15757	0.57%	0.078%
178	12.595	12.568	12.625	VV	1081	35457	1.29%	0.176%
179	12.639	12.625	12.697	VV	1040	40301	1.47%	0.200%
180	12.745	12.697	12.800	VV	1327	66008	2.41%	0.328%
181	12.812	12.800	12.833	VV	1192	21637	0.79%	0.108%
182	12.854	12.833	12.871	VV	1184	25159	0.92%	0.125%
183	12.935	12.871	13.034	VV	214150	2742036	100.00%	13.641%
184	13.040	13.034	13.068	VV	1682	31232	1.14%	0.155%
185	13.101	13.068	13.142	VV	6999	137645	5.02%	0.685%
186	13.167	13.142	13.209	VV	1915	64510	2.35%	0.321%
187	13.214	13.209	13.251	VV	1460	35182	1.28%	0.175%
188	13.267	13.251	13.288	VV	1536	31092	1.13%	0.155%
189	13.337	13.288	13.360	VV	2154	76079	2.77%	0.378%
190	13.382	13.360	13.396	VV	1934	39880	1.45%	0.198%
191	13.411	13.396	13.431	VV	1740	34929	1.27%	0.174%
192	13.443	13.431	13.464	VV	1767	32817	1.20%	0.163%
193	13.478	13.464	13.491	VV	1723	26133	0.95%	0.130%
194	13.526	13.491	13.570	VV	2126	88938	3.24%	0.442%

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Instrument :
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Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 10/24/2024

rteres

195	13.599	13.570	13.608	VV	2080	45223	1.65%	0.225%
196	13.634	13.608	13.657	VV	3152	69639		
197	13.687	13.657	13.726	VV	6796	145586		
198	13.747	13.726	13.804	VV	2590	102279		
199	13.824	13.804	13.847	VV	2017	49102		
200	13.867	13.847	13.877	VV	1900	31914		
201	13.910	13.877	13.967	VV	3200	144215	5.26%	0.717%
202	13.981	13.967	14.002	VV	2611	51455	1.88%	0.256%
203	14.018	14.002	14.038	VV	2452	49570	1.81%	0.247%
204	14.123	14.038	14.150	VV	3573	183740	6.70%	0.914%
205	14.174	14.150	14.211	VV	2938	102032	3.72%	0.508%
206	14.248	14.211	14.286	VV	11381	236945	8.64%	1.179%
207	14.308	14.286	14.360	VV	3801	140473	5.12%	0.699%
208	14.381	14.360	14.419	VV	3013	99117	3.61%	0.493%
209	14.453	14.419	14.483	VV	3965	129434	4.72%	0.644%
210	14.500	14.483	14.514	VV	3406	63168	2.30%	0.314%
211	14.530	14.514	14.581	VV	3316	122311	4.46%	0.608%
212	14.597	14.581	14.612	VV	3155	55477	2.02%	0.276%
213	14.645	14.612	14.661	VV	3647	98234	3.58%	0.489%
214	14.699	14.661	14.722	VV	4623	142436	5.19%	0.709%
215	14.744	14.722	14.761	VV	4211	89392	3.26%	0.445%
216	14.787	14.761	14.820	VV	14258	264910	9.66%	1.318%
217	14.841	14.820	14.884	VV	4339	142889	5.21%	0.711%
218	14.903	14.884	14.951	VV	3432	123540	4.51%	0.615%
219	14.984	14.951	15.015	VV	4055	131752	4.80%	0.655%
220	15.034	15.015	15.078	VV	3616	124221	4.53%	0.618%
221	15.099	15.078	15.109	VV	3403	57729	2.11%	0.287%
222	15.122	15.109	15.147	VV	3381	75783	2.76%	0.377%
223	15.172	15.147	15.190	VV	3870	88797	3.24%	0.442%
224	15.209	15.190	15.252	VV	3673	128258	4.68%	0.638%
225	15.308	15.252	15.339	VV	19035	392535	14.32%	1.953%
226	15.356	15.339	15.424	VV	4014	163360	5.96%	0.813%
227	15.439	15.424	15.457	VV	2670	48800	1.78%	0.243%
228	15.493	15.457	15.512	VV	3261	97030	3.54%	0.483%
229	15.538	15.512	15.561	VV	4544	107522	3.92%	0.535%
230	15.584	15.561	15.616	VV	3897	117616	4.29%	0.585%
231	15.629	15.616	15.658	VV	3740	84310	3.07%	0.419%
232	15.680	15.658	15.724	VV	3576	119508	4.36%	0.595%
233	15.730	15.724	15.741	VV	2571	24863	0.91%	0.124%
234	15.769	15.741	15.780	VV	3904	75646	2.76%	0.376%
235	15.807	15.780	15.837	VV	16817	291288	10.62%	1.449%
236	15.847	15.837	15.898	VV	3224	94451	3.44%	0.470%
237	15.908	15.898	15.952	VV	2123	64663	2.36%	0.322%
238	15.983	15.952	16.073	VV	2543	153340	5.59%	0.763%
239	16.120	16.073	16.145	VV	3064	103027	3.76%	0.513%
240	16.165	16.145	16.231	VV	2818	108688	3.96%	0.541%
241	16.252	16.231	16.261	VV	2634	39530	1.44%	0.197%
242	16.290	16.261	16.320	VV	20658	316075	11.53%	1.572%
243	16.336	16.320	16.388	VV	2640	75441	2.75%	0.375%
244	16.405	16.388	16.427	VV	1409	28824	1.05%	0.143%
245	16.455	16.427	16.497	VV	1629	60363	2.20%	0.300%
246	16.537	16.497	16.550	VV	1837	49765	1.81%	0.248%

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Instrument :
FID_C
ClientSampleId :
B-180-SB02

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/24/2024

A B C D E F G H I J

					rteres			
247	16.590	16.550	16.614	VV	2501	73035	2.66%	0.363%
248	16.634	16.614	16.694	VV	2013	69986	2	
249	16.721	16.694	16.732	VV	3672	53574	1	
250	16.756	16.732	16.833	VV	14878	258938	9	
251	16.873	16.833	16.890	VV	1143	30260	1	
252	16.908	16.890	16.945	VV	1082	30090	1	
253	16.988	16.945	17.008	VV	1254	38120	1.39%	0.190%
254	17.047	17.008	17.067	VV	1461	38659	1.41%	0.192%
255	17.113	17.067	17.150	VV	2936	78601	2.87%	0.391%
256	17.206	17.150	17.284	VV	52509	799867	29.17%	3.979%
257	17.311	17.284	17.383	VV	1734	53317	1.94%	0.265%
258	17.406	17.383	17.434	VV	770	17601	0.64%	0.088%
259	17.485	17.434	17.504	VV	1277	32838	1.20%	0.163%
260	17.527	17.504	17.561	VV	1174	27924	1.02%	0.139%
261	17.642	17.561	17.698	VV	10258	205372	7.49%	1.022%
262	17.724	17.698	17.737	VV	678	12026	0.44%	0.060%
263	17.805	17.737	17.826	VV	9056	175578	6.40%	0.873%
264	17.851	17.826	17.881	VV	14687	202141	7.37%	1.006%
265	17.936	17.881	17.953	VV	3944	86405	3.15%	0.430%
266	17.972	17.953	18.006	VV	4226	73760	2.69%	0.367%
267	18.064	18.006	18.123	VV	45812	654747	23.88%	3.257%
268	18.174	18.123	18.223	VV	1403	42714	1.56%	0.212%
269	18.255	18.223	18.291	VV	1179	22701	0.83%	0.113%
270	18.320	18.291	18.354	VV	1938	39147	1.43%	0.195%
271	18.374	18.354	18.401	VV	622	11231	0.41%	0.056%
272	18.473	18.401	18.503	VV	5320	98914	3.61%	0.492%
273	18.540	18.503	18.581	VV	42898	606253	22.11%	3.016%
274	18.613	18.581	18.651	VV	5392	77304	2.82%	0.385%
275	18.661	18.651	18.669	VV	179	1051	0.04%	0.005%
276	18.734	18.669	18.754	PV	739	18680	0.68%	0.093%
277	18.777	18.754	18.800	VV	1170	18971	0.69%	0.094%
278	18.820	18.800	18.834	VV	813	11377	0.41%	0.057%
279	18.869	18.834	18.939	VV	7411	125631	4.58%	0.625%
280	19.043	18.939	19.097	VV	652	37099	1.35%	0.185%
281	19.120	19.097	19.141	VV	424	7933	0.29%	0.039%
282	19.201	19.141	19.221	VV	1290	28193	1.03%	0.140%
283	19.256	19.221	19.323	VV	3137	77538	2.83%	0.386%
284	19.362	19.323	19.374	VV	522	14136	0.52%	0.070%
285	19.498	19.374	19.524	VV	1203	63506	2.32%	0.316%
286	19.559	19.524	19.594	VV	1195	43423	1.58%	0.216%
287	19.631	19.594	19.665	VV	2879	71674	2.61%	0.357%
288	19.689	19.665	19.708	VV	1584	36551	1.33%	0.182%
289	19.895	19.708	19.941	VV	2694	281672	10.27%	1.401%
290	19.993	19.941	20.024	VV	4099	146206	5.33%	0.727%
291	20.045	20.024	20.087	VV	2838	100711	3.67%	0.501%
292	20.347	20.087	20.413	VV	4554	587634	21.43%	2.923%
293	20.524	20.413	20.646	VV	3893	475689	17.35%	2.366%
294	20.716	20.646	20.765	VV	4112	238174	8.69%	1.185%
295	20.774	20.765	20.784	VV	3042	35656	1.30%	0.177%
296	20.801	20.784	20.849	VV	3084	109789	4.00%	0.546%
297	20.863	20.849	20.958	VV	2601	154457	5.63%	0.768%
298	20.968	20.958	20.981	VV	2095	28634	1.04%	0.142%
299	21.006	20.981	21.014	VV	2036	39381	1.44%	0.196%

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Instrument :
FID_C
ClientSampleId :
B-180-SB02

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/24/2024

A B C D E F G H I J

					rteres			
300	21.052	21.014	21.093	VV	2087	93537	3.41%	0.465%
301	21.134	21.093	21.203	VV	2180	116968		
302	21.247	21.203	21.276	VV	1400	58206		
303	21.336	21.276	21.389	VV	1286	77992		
304	21.410	21.389	21.439	VV	1105	28894		
305	21.460	21.439	21.492	VV	879	25461		
306	21.500	21.492	21.521	VV	721	11993	0.44%	0.060%
307	21.549	21.521	21.557	VV	718	14345	0.52%	0.071%
308	21.598	21.557	21.645	VV	1280	44707	1.63%	0.222%
309	21.657	21.645	21.726	VV	617	19578	0.71%	0.097%
310	21.744	21.726	21.775	VV	189	2844	0.10%	0.014%

Sum of corrected areas: 20101625

Aliphatic EPH 100224.M Wed Oct 23 11:12:28 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048558.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 07:17
Operator : YP/AJ
Sample : P4471-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-180-SB02

Integration File: autoint1.e
Quant Time: Oct 23 11:14:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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...	7.374	7008961	42.333 ug/ml
Spiked Amount 50.000		Recovery =	84.67%
6) S 2-Flurobiphenyl (SURR)	8.224	4682999	45.157 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	90.31%
11) S ortho-Terphenyl (SURR)	11.257	3878838	21.081 ug/ml
Spiked Amount 50.000		Recovery =	42.16%
Target Compounds			

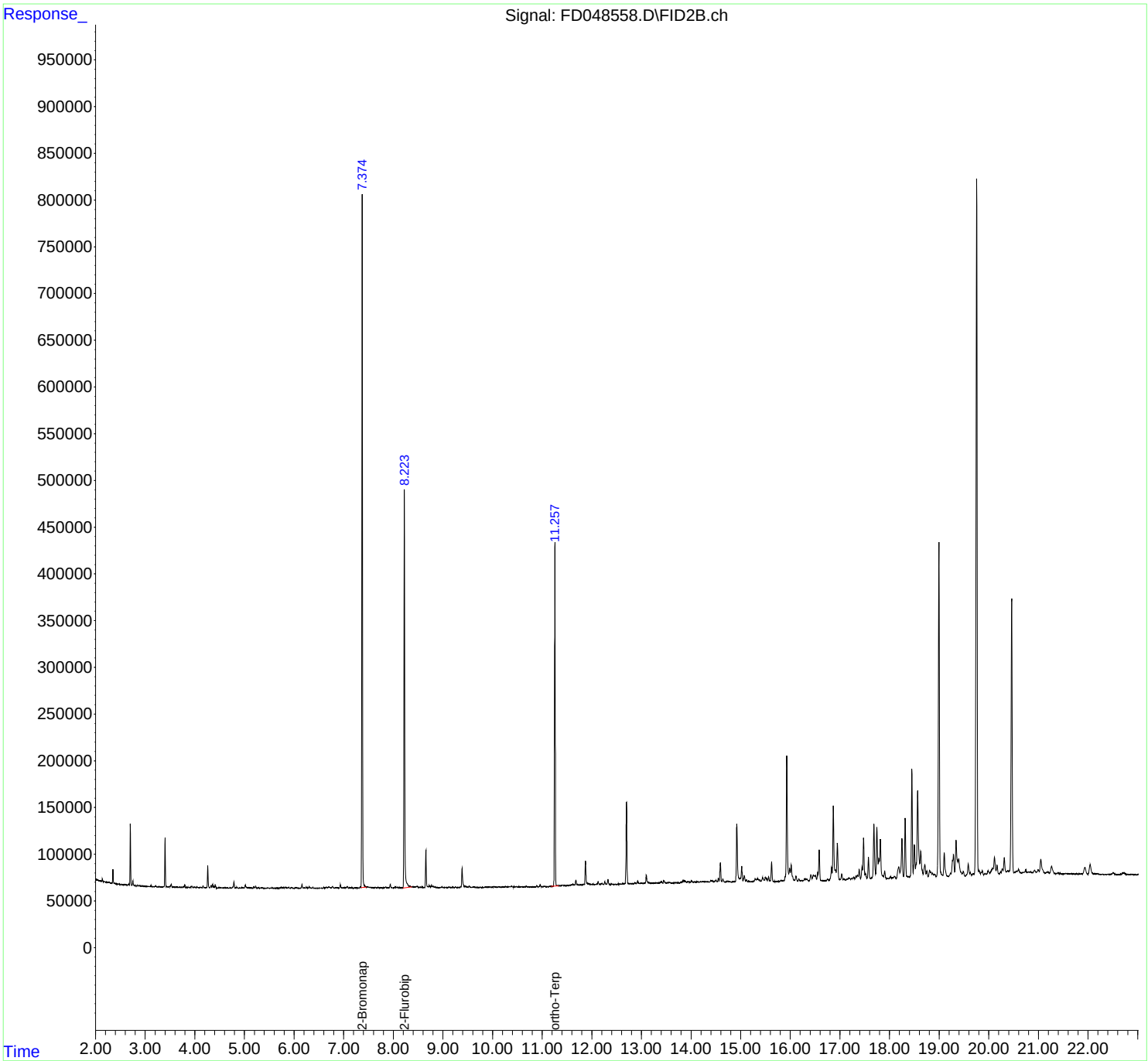
(f)=RT Delta > 1/2 Window (m)=manual int.

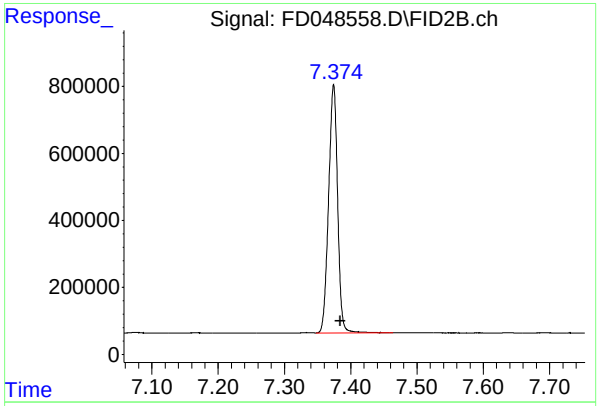
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048558.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 07:17
Operator : YP/AJ
Sample : P4471-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-180-SB02

Integration File: autoint1.e
Quant Time: Oct 23 11:14:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

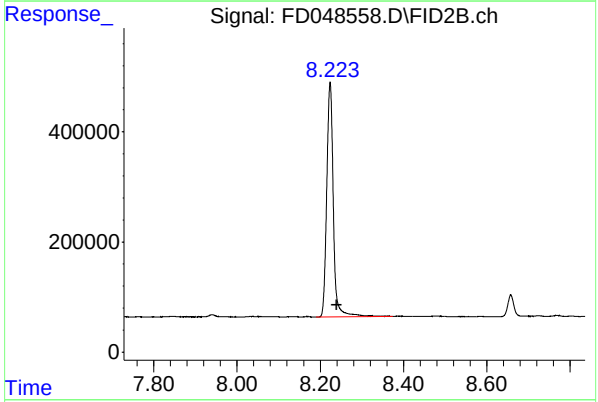




#4 2-Bromonaphthalene (SURR)

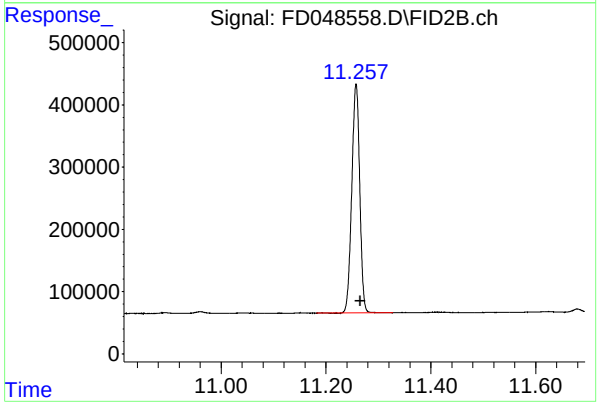
R.T.: 7.374 min
Delta R.T.: -0.010 min
Response: 7008961
Conc: 42.33 ug/ml

Instrument :
FID_D
ClientSampleId :
B-180-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: -0.015 min
Response: 4682999
Conc: 45.16 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: -0.008 min
Response: 3878838
Conc: 21.08 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048558.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 07:17
Sample : P4471-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.233	4.220	4.242	PV	242	1732	0.02%	0.004%
2	4.261	4.242	4.303	VV	23787	220791	3.12%	0.569%
3	4.329	4.303	4.344	VV	2685	33489	0.47%	0.086%
4	4.358	4.344	4.373	VV	3991	38237	0.54%	0.099%
5	4.385	4.373	4.399	VV	2276	20415	0.29%	0.053%
6	4.414	4.399	4.449	VV	3690	36185	0.51%	0.093%
7	4.458	4.449	4.467	PV	217	1341	0.02%	0.003%
8	4.485	4.467	4.504	VV	774	9323	0.13%	0.024%
9	4.534	4.504	4.565	VV	538	10169	0.14%	0.026%
10	4.571	4.565	4.579	VV	254	1145	0.02%	0.003%
11	4.602	4.579	4.633	VV	689	10068	0.14%	0.026%
12	4.652	4.633	4.680	PV	316	3698	0.05%	0.010%
13	4.690	4.680	4.694	VV	173	1032	0.01%	0.003%
14	4.710	4.694	4.740	VV	467	7202	0.10%	0.019%
15	4.765	4.740	4.774	VV	1235	13830	0.20%	0.036%
16	4.788	4.774	4.816	VV	6596	74496	1.05%	0.192%
17	4.845	4.816	4.864	VV	1238	16274	0.23%	0.042%
18	4.870	4.864	4.882	VV	258	1655	0.02%	0.004%
19	4.899	4.882	4.915	VV	242	3418	0.05%	0.009%
20	4.926	4.915	4.934	VV	252	2521	0.04%	0.007%
21	4.955	4.934	4.968	VV	939	10205	0.14%	0.026%
22	4.976	4.968	4.992	VV	565	5243	0.07%	0.014%
23	4.995	4.992	4.999	VV	301	1205	0.02%	0.003%
24	5.017	4.999	5.052	VV	3495	49113	0.69%	0.127%
25	5.061	5.052	5.088	VV	776	11716	0.17%	0.030%
26	5.093	5.088	5.145	VV	524	10419	0.15%	0.027%
27	5.157	5.145	5.168	VV	366	3243	0.05%	0.008%
28	5.192	5.168	5.208	VV	1616	20632	0.29%	0.053%
29	5.228	5.208	5.254	VV	2318	24447	0.35%	0.063%
30	5.263	5.254	5.269	VV	268	1561	0.02%	0.004%
31	5.283	5.269	5.309	VV	588	8450	0.12%	0.022%
32	5.344	5.309	5.364	VV	420	9480	0.13%	0.024%
33	5.370	5.364	5.397	VV	395	4015	0.06%	0.010%
34	5.429	5.418	5.447	VV	283	3996	0.06%	0.010%
35	5.479	5.447	5.506	VV	609	11053	0.16%	0.029%
36	5.517	5.506	5.522	VV	353	1844	0.03%	0.005%

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37	5.540	5.522	5.556	VV	348	5200	0.07%	0.013%
38	5.561	5.556	5.602	VV	302	4589	0.06%	0.012%
39	5.621	5.602	5.625	VV	237	2246	0.03%	0.006%
40	5.636	5.625	5.658	VV	302	4841	0.07%	0.012%
41	5.667	5.658	5.676	VV	185	1812	0.03%	0.005%
42	5.686	5.676	5.702	VV	521	3682	0.05%	0.009%
43	5.711	5.702	5.719	VV	423	3215	0.05%	0.008%
44	5.735	5.719	5.760	VV	1167	18530	0.26%	0.048%
45	5.779	5.760	5.800	VV	981	15988	0.23%	0.041%
46	5.804	5.800	5.808	VV	631	2407	0.03%	0.006%
47	5.822	5.808	5.845	VV	1725	21195	0.30%	0.055%
48	5.850	5.845	5.862	VV	470	3114	0.04%	0.008%
49	5.867	5.862	5.874	VV	353	2106	0.03%	0.005%
50	5.892	5.874	5.920	VV	1170	16469	0.23%	0.042%
51	5.953	5.920	5.980	VV	736	17060	0.24%	0.044%
52	5.986	5.980	6.009	VV	391	4918	0.07%	0.013%
53	6.023	6.009	6.035	VV	827	10316	0.15%	0.027%
54	6.039	6.035	6.043	VV	707	2868	0.04%	0.007%
55	6.051	6.043	6.079	VV	990	12099	0.17%	0.031%
56	6.090	6.079	6.111	VV	264	3255	0.05%	0.008%
57	6.160	6.111	6.218	PV	4112	57814	0.82%	0.149%
58	6.240	6.218	6.260	VV	1060	16168	0.23%	0.042%
59	6.277	6.260	6.291	VV	872	10517	0.15%	0.027%
60	6.307	6.291	6.329	VV	2088	23504	0.33%	0.061%
61	6.337	6.329	6.359	VV	598	7949	0.11%	0.020%
62	6.380	6.359	6.409	VV	1220	16518	0.23%	0.043%
63	6.416	6.409	6.420	VV	280	1560	0.02%	0.004%
64	6.425	6.420	6.447	VV	406	3315	0.05%	0.009%
65	6.462	6.455	6.468	VV	282	1573	0.02%	0.004%
66	6.477	6.468	6.492	VV	424	3499	0.05%	0.009%
67	6.517	6.492	6.533	PV	356	6173	0.09%	0.016%
68	6.551	6.533	6.565	VV	428	5232	0.07%	0.013%
69	6.569	6.565	6.577	VV	157	1005	0.01%	0.003%
70	6.594	6.577	6.617	VV	1113	13943	0.20%	0.036%
71	6.650	6.617	6.667	VV	1347	23284	0.33%	0.060%
72	6.674	6.667	6.679	VV	970	6584	0.09%	0.017%
73	6.696	6.679	6.706	VV	1243	16245	0.23%	0.042%
74	6.712	6.706	6.745	VV	1191	17065	0.24%	0.044%
75	6.775	6.745	6.805	VV	2095	34869	0.49%	0.090%
76	6.810	6.805	6.831	VV	534	6556	0.09%	0.017%
77	6.852	6.831	6.870	VV	860	13579	0.19%	0.035%
78	6.878	6.870	6.903	VV	680	8505	0.12%	0.022%
79	6.935	6.903	6.974	VV	3817	49589	0.70%	0.128%
80	7.001	6.974	7.006	VV	631	8556	0.12%	0.022%
81	7.014	7.006	7.030	VV	762	7771	0.11%	0.020%
82	7.042	7.030	7.057	VV	916	9822	0.14%	0.025%
83	7.075	7.057	7.100	VV	2115	25388	0.36%	0.065%
84	7.107	7.100	7.119	VV	358	2870	0.04%	0.007%
85	7.129	7.119	7.135	VV	417	3211	0.05%	0.008%
86	7.141	7.135	7.149	VV	522	3403	0.05%	0.009%
87	7.169	7.149	7.202	VV	925	12779	0.18%	0.033%
88	7.230	7.202	7.239	VV	489	6546	0.09%	0.017%
89	7.242	7.239	7.265	VV	396	3312	0.05%	0.009%

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90	7.305	7.265	7.312	VV	415	8541	0.12%	0.022%
91	7.334	7.312	7.347	VV	1538	17546	0.25%	0.045%
92	7.374	7.347	7.464	VV	741916	7066809	100.00%	18.224%
93	7.482	7.464	7.489	VV	1283	18117	0.26%	0.047%
94	7.493	7.489	7.518	VV	1314	18820	0.27%	0.049%
95	7.526	7.518	7.544	VV	942	11654	0.16%	0.030%
96	7.549	7.544	7.578	VV	584	10600	0.15%	0.027%
97	7.590	7.578	7.616	VV	604	9844	0.14%	0.025%
98	7.637	7.616	7.675	VV	1036	16762	0.24%	0.043%
99	7.691	7.675	7.713	VV	867	11927	0.17%	0.031%
100	7.730	7.713	7.750	VV	580	6522	0.09%	0.017%
101	7.765	7.750	7.779	VV	529	5219	0.07%	0.013%
102	7.797	7.784	7.814	VV	418	3771	0.05%	0.010%
103	7.847	7.814	7.871	VV	1331	21929	0.31%	0.057%
104	7.874	7.871	7.880	VV	416	1961	0.03%	0.005%
105	7.890	7.880	7.901	VV	387	4097	0.06%	0.011%
106	7.909	7.901	7.913	VV	403	2366	0.03%	0.006%
107	7.940	7.913	7.968	VV	4325	51471	0.73%	0.133%
108	7.974	7.968	8.013	VV	555	7775	0.11%	0.020%
109	8.033	8.013	8.045	VV	997	12310	0.17%	0.032%
110	8.054	8.045	8.078	VV	894	14087	0.20%	0.036%
111	8.091	8.078	8.119	VV	731	9937	0.14%	0.026%
112	8.131	8.119	8.154	VV	683	8562	0.12%	0.022%
113	8.170	8.154	8.190	VV	844	7022	0.10%	0.018%
114	8.224	8.190	8.374	PV	425992	4750875	67.23%	12.252%
115	8.386	8.374	8.409	VV	1464	27278	0.39%	0.070%
116	8.424	8.409	8.454	VV	1242	29282	0.41%	0.076%
117	8.477	8.454	8.521	VV	1624	43305	0.61%	0.112%
118	8.537	8.521	8.551	VV	889	12227	0.17%	0.032%
119	8.555	8.551	8.567	VV	754	6022	0.09%	0.016%
120	8.587	8.567	8.620	VV	999	21098	0.30%	0.054%
121	8.658	8.620	8.689	VV	39984	422051	5.97%	1.088%
122	8.692	8.689	8.702	VV	1758	12239	0.17%	0.032%
123	8.723	8.702	8.745	VV	2331	40594	0.57%	0.105%
124	8.769	8.745	8.789	VV	2799	47466	0.67%	0.122%
125	8.806	8.789	8.825	VV	1612	25481	0.36%	0.066%
126	8.840	8.825	8.864	VV	1290	19523	0.28%	0.050%
127	8.869	8.864	8.875	VV	318	1894	0.03%	0.005%
128	8.891	8.875	8.905	VV	606	7421	0.11%	0.019%
129	8.909	8.905	8.921	VV	402	2466	0.03%	0.006%
130	8.952	8.921	8.962	VV	616	10206	0.14%	0.026%
131	8.974	8.962	9.017	VV	944	19146	0.27%	0.049%
132	9.051	9.017	9.095	VV	569	17811	0.25%	0.046%
133	9.117	9.095	9.164	VV	1072	19724	0.28%	0.051%
134	9.192	9.164	9.212	PV	683	12342	0.17%	0.032%
135	9.224	9.212	9.237	VV	415	4807	0.07%	0.012%
136	9.257	9.237	9.275	VV	796	12093	0.17%	0.031%
137	9.281	9.275	9.288	VV	284	1511	0.02%	0.004%
138	9.299	9.288	9.304	VV	436	3072	0.04%	0.008%
139	9.315	9.304	9.334	VV	553	6757	0.10%	0.017%
140	9.358	9.334	9.367	VV	1149	14669	0.21%	0.038%
141	9.387	9.367	9.439	VV	21077	296441	4.19%	0.764%

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142	9.447	9.439	9.464	VV	1720	22308	0.32%	0.058%
143	9.469	9.464	9.509	VV	1276	23744	0.34%	0.061%
144	9.530	9.509	9.552	VV	2041	28708	0.41%	0.074%
145	9.564	9.552	9.581	VV	490	7141	0.10%	0.018%
146	9.598	9.581	9.650	VV	676	20577	0.29%	0.053%
147	9.656	9.650	9.667	VV	528	4143	0.06%	0.011%
148	9.672	9.667	9.675	VV	372	1715	0.02%	0.004%
149	9.678	9.675	9.688	VV	440	2104	0.03%	0.005%
150	9.693	9.688	9.717	VV	348	3316	0.05%	0.009%
151	9.741	9.717	9.751	PV	419	4809	0.07%	0.012%
152	9.773	9.751	9.789	VV	364	5873	0.08%	0.015%
153	9.807	9.789	9.821	VV	463	5654	0.08%	0.015%
154	9.843	9.821	9.865	VV	600	10043	0.14%	0.026%
155	9.875	9.865	9.881	VV	405	3286	0.05%	0.008%
156	9.884	9.881	9.887	VV	391	1189	0.02%	0.003%
157	9.891	9.887	9.911	VV	560	6436	0.09%	0.017%
158	9.920	9.911	9.935	VV	555	7183	0.10%	0.019%
159	9.951	9.935	9.956	VV	824	7580	0.11%	0.020%
160	9.960	9.956	9.973	VV	799	6685	0.09%	0.017%
161	9.976	9.973	9.980	VV	381	1865	0.03%	0.005%
162	9.985	9.980	10.004	VV	538	5451	0.08%	0.014%
163	10.032	10.004	10.050	VV	1153	17551	0.25%	0.045%
164	10.056	10.050	10.073	VV	311	3498	0.05%	0.009%
165	10.095	10.073	10.104	VV	362	5149	0.07%	0.013%
166	10.126	10.104	10.137	VV	686	10083	0.14%	0.026%
167	10.145	10.137	10.172	VV	634	9772	0.14%	0.025%
168	10.177	10.172	10.181	VV	294	1382	0.02%	0.004%
169	10.191	10.181	10.199	VV	552	4334	0.06%	0.011%
170	10.214	10.199	10.230	VV	617	9126	0.13%	0.024%
171	10.266	10.230	10.297	VV	1120	24875	0.35%	0.064%
172	10.316	10.297	10.326	VV	769	9084	0.13%	0.023%
173	10.346	10.326	10.363	VV	844	14472	0.20%	0.037%
174	10.389	10.363	10.410	VV	1291	22118	0.31%	0.057%
175	10.430	10.410	10.459	VV	969	10151	0.14%	0.026%
176	10.486	10.459	10.509	VV	845	15069	0.21%	0.039%
177	10.538	10.509	10.549	VV	626	7035	0.10%	0.018%
178	10.557	10.549	10.565	VV	409	3584	0.05%	0.009%
179	10.573	10.565	10.579	VV	635	4327	0.06%	0.011%
180	10.585	10.579	10.594	VV	563	4296	0.06%	0.011%
181	10.598	10.594	10.603	VV	335	1574	0.02%	0.004%
182	10.615	10.603	10.620	VV	342	2905	0.04%	0.007%
183	10.626	10.620	10.637	VV	429	3393	0.05%	0.009%
184	10.657	10.637	10.665	VV	637	6654	0.09%	0.017%
185	10.680	10.665	10.706	VV	787	11675	0.17%	0.030%
186	10.713	10.706	10.743	VV	485	6302	0.09%	0.016%
187	10.757	10.743	10.776	VV	319	4911	0.07%	0.013%
188	10.783	10.776	10.797	VV	306	2549	0.04%	0.007%
189	10.803	10.797	10.822	VV	225	1778	0.03%	0.005%
190	10.832	10.822	10.870	VV	393	3665	0.05%	0.009%
191	10.893	10.870	10.912	PV	1242	15748	0.22%	0.041%
192	10.961	10.912	10.998	VV	2909	42635	0.60%	0.110%
193	11.005	10.998	11.010	VV	298	1602	0.02%	0.004%
194	11.040	11.018	11.055	VV	853	11685	0.17%	0.030%

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195	11.060	11.055	11.099	VV	472	6278	0.09%	0.016%
196	11.110	11.099	11.131	PV	303	3089	0.04%	0.008%
197	11.150	11.131	11.170	VV	779	10362	0.15%	0.027%
198	11.194	11.170	11.224	VV	767	11494	0.16%	0.030%
199	11.258	11.224	11.310	VV	368843	3911296	55.35%	10.087%
200	11.315	11.310	11.327	VV	899	8031	0.11%	0.021%
201	11.352	11.327	11.373	VV	1117	25514	0.36%	0.066%
202	11.415	11.373	11.447	VV	1606	52402	0.74%	0.135%
203	11.452	11.447	11.468	VV	865	9912	0.14%	0.026%
204	11.474	11.468	11.497	VV	873	13794	0.20%	0.036%
205	11.510	11.497	11.525	VV	1058	16343	0.23%	0.042%
206	11.568	11.525	11.571	VV	1243	30237	0.43%	0.078%
207	11.624	11.571	11.641	VV	2276	70527	1.00%	0.182%
208	11.645	11.641	11.655	VV	1485	11939	0.17%	0.031%
209	11.680	11.655	11.707	VV	6357	101055	1.43%	0.261%
210	11.717	11.707	11.736	VV	1630	24213	0.34%	0.062%
211	11.760	11.736	11.775	VV	1580	31084	0.44%	0.080%
212	11.778	11.775	11.800	VV	1390	19238	0.27%	0.050%
213	11.840	11.800	11.854	VV	2005	52853	0.75%	0.136%
214	11.874	11.854	11.920	VV	26744	370098	5.24%	0.954%
215	11.926	11.920	11.952	VV	2732	44651	0.63%	0.115%
216	11.955	11.952	11.973	VV	2108	24255	0.34%	0.063%
217	11.981	11.973	11.987	VV	1742	13449	0.19%	0.035%
218	11.993	11.987	12.007	VV	1718	19181	0.27%	0.049%
219	12.026	12.007	12.047	VV	1972	40427	0.57%	0.104%
220	12.062	12.047	12.079	VV	1576	27608	0.39%	0.071%
221	12.128	12.079	12.152	VV	4541	101893	1.44%	0.263%
222	12.167	12.152	12.180	VV	1780	27842	0.39%	0.072%
223	12.203	12.180	12.239	VV	2728	64723	0.92%	0.167%
224	12.262	12.239	12.292	VV	4233	75450	1.07%	0.195%
225	12.326	12.292	12.350	VV	6565	114286	1.62%	0.295%
226	12.356	12.350	12.407	VV	1455	42556	0.60%	0.110%
227	12.409	12.407	12.417	VV	1257	7281	0.10%	0.019%
228	12.421	12.417	12.431	VV	1206	9054	0.13%	0.023%
229	12.437	12.431	12.447	VV	1133	10612	0.15%	0.027%
230	12.453	12.447	12.460	VV	1203	8635	0.12%	0.022%
231	12.471	12.460	12.487	VV	1430	19502	0.28%	0.050%
232	12.492	12.487	12.502	VV	1071	8509	0.12%	0.022%
233	12.521	12.502	12.534	VV	1429	22852	0.32%	0.059%
234	12.539	12.534	12.565	VV	1505	21193	0.30%	0.055%
235	12.581	12.565	12.605	VV	1362	28387	0.40%	0.073%
236	12.624	12.605	12.642	VV	2253	37098	0.52%	0.096%
237	12.658	12.642	12.665	VV	1780	21357	0.30%	0.055%
238	12.699	12.665	12.742	VV	88924	1088273	15.40%	2.807%
239	12.747	12.742	12.764	VV	1718	19939	0.28%	0.051%
240	12.782	12.764	12.825	VV	1797	52376	0.74%	0.135%
241	12.832	12.825	12.846	VV	1377	16270	0.23%	0.042%
242	12.870	12.846	12.896	VV	2870	58141	0.82%	0.150%
243	12.925	12.896	12.975	VV	4481	108670	1.54%	0.280%
244	13.000	12.975	13.037	VV	1867	60141	0.85%	0.155%
245	13.060	13.037	13.076	VV	2366	44668	0.63%	0.115%
246	13.098	13.076	13.195	VV	10423	243129	3.44%	0.627%

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247	13.202	13.195	13.207	VV	1720	11458	0.16%	0.030%
248	13.211	13.207	13.230	VV	1672	21270	0.30%	0.055%
249	13.242	13.230	13.257	VV	1681	24891	0.35%	0.064%
250	13.274	13.257	13.279	VV	1803	22420	0.32%	0.058%
251	13.282	13.279	13.286	VV	1757	7680	0.11%	0.020%
252	13.296	13.286	13.327	VV	1868	41443	0.59%	0.107%
253	13.333	13.327	13.339	VV	1624	11006	0.16%	0.028%
254	13.370	13.339	13.381	VV	1994	44067	0.62%	0.114%
255	13.402	13.381	13.431	VV	3395	70180	0.99%	0.181%
256	13.452	13.431	13.499	VV	4300	100098	1.42%	0.258%
257	13.507	13.499	13.522	VV	1750	21749	0.31%	0.056%
258	13.559	13.522	13.596	VV	2096	73944	1.05%	0.191%
259	13.602	13.596	13.622	VV	1514	20397	0.29%	0.053%
260	13.628	13.622	13.634	VV	1329	8933	0.13%	0.023%
261	13.639	13.634	13.650	VV	1335	11649	0.16%	0.030%
262	13.678	13.650	13.707	VV	1572	47696	0.67%	0.123%
263	13.713	13.707	13.743	VV	1610	30794	0.44%	0.079%
264	13.753	13.743	13.766	VV	1304	17167	0.24%	0.044%
265	13.812	13.766	13.819	VV	1870	48279	0.68%	0.125%
266	13.841	13.819	13.868	VV	4215	90998	1.29%	0.235%
267	13.886	13.868	13.908	VV	3112	60287	0.85%	0.155%
268	13.916	13.908	13.922	VV	1906	15880	0.22%	0.041%
269	13.944	13.922	13.971	VV	2629	61302	0.87%	0.158%
270	13.987	13.971	13.994	VV	1881	23897	0.34%	0.062%
271	14.009	13.994	14.029	VV	3411	53072	0.75%	0.137%
272	14.044	14.029	14.055	VV	1976	28907	0.41%	0.075%
273	14.060	14.055	14.065	VV	1676	9444	0.13%	0.024%
274	14.070	14.065	14.075	VV	1707	10309	0.15%	0.027%
275	14.088	14.075	14.093	VV	1880	18934	0.27%	0.049%
276	14.107	14.093	14.128	VV	1944	37097	0.52%	0.096%
277	14.146	14.128	14.165	VV	1988	38850	0.55%	0.100%
278	14.189	14.165	14.205	VV	2006	41734	0.59%	0.108%
279	14.231	14.205	14.250	VV	2100	50920	0.72%	0.131%
280	14.255	14.250	14.282	VV	1960	36261	0.51%	0.094%
281	14.306	14.282	14.331	VV	2165	54728	0.77%	0.141%
282	14.335	14.331	14.342	VV	1653	11423	0.16%	0.029%
283	14.352	14.342	14.378	VV	1718	33594	0.48%	0.087%
284	14.400	14.378	14.417	VV	2891	57072	0.81%	0.147%
285	14.431	14.417	14.451	VV	2881	49493	0.70%	0.128%
286	14.455	14.451	14.460	VV	1848	9367	0.13%	0.024%
287	14.467	14.460	14.475	VV	2193	17696	0.25%	0.046%
288	14.500	14.475	14.527	VV	3162	73872	1.05%	0.191%
289	14.549	14.527	14.564	VV	5178	74341	1.05%	0.192%
290	14.590	14.564	14.618	VV	22057	308234	4.36%	0.795%
291	14.640	14.618	14.680	VV	4402	89550	1.27%	0.231%
292	14.738	14.680	14.768	VV	2116	72829	1.03%	0.188%
293	14.786	14.768	14.830	VV	1451	43841	0.62%	0.113%
294	14.859	14.830	14.889	VV	1573	43535	0.62%	0.112%
295	14.921	14.889	14.977	VV	62913	955247	13.52%	2.463%
296	14.989	14.977	14.996	VV	4678	49648	0.70%	0.128%
297	15.020	14.996	15.047	VV	17668	271036	3.84%	0.699%
298	15.072	15.047	15.098	VV	7221	132061	1.87%	0.341%
299	15.114	15.098	15.140	VV	3222	52467	0.74%	0.135%

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300	15.166	15.140	15.215	VV	1741	51552	0.73%	0.133%
301	15.221	15.215	15.225	VV	858	4562	0.06%	0.012%
302	15.290	15.225	15.312	VV	3770	102169	1.45%	0.263%
303	15.333	15.312	15.363	VV	3896	95798	1.36%	0.247%
304	15.376	15.363	15.409	VV	2853	59353	0.84%	0.153%
305	15.441	15.409	15.472	VV	4926	112596	1.59%	0.290%
306	15.500	15.472	15.514	VV	5631	95276	1.35%	0.246%
307	15.526	15.514	15.545	VV	4077	58967	0.83%	0.152%
308	15.563	15.545	15.592	VV	5725	87433	1.24%	0.225%
309	15.622	15.592	15.678	VV	21431	295925	4.19%	0.763%
310	15.691	15.678	15.701	VV	586	6780	0.10%	0.017%
311	15.708	15.701	15.719	VV	479	4300	0.06%	0.011%
312	15.724	15.719	15.732	VV	532	3150	0.04%	0.008%
313	15.738	15.732	15.751	VV	591	5433	0.08%	0.014%
314	15.770	15.751	15.777	VV	674	8828	0.12%	0.023%
315	15.779	15.777	15.785	VV	610	2751	0.04%	0.007%
316	15.814	15.785	15.849	VV	1641	44276	0.63%	0.114%
317	15.872	15.849	15.878	VV	1630	23811	0.34%	0.061%
318	15.928	15.878	15.967	VV	135179	1966926	27.83%	5.072%
319	15.985	15.967	16.001	VV	14259	231789	3.28%	0.598%
320	16.017	16.001	16.089	VV	18019	363358	5.14%	0.937%
321	16.113	16.089	16.147	VV	5895	104566	1.48%	0.270%
322	16.173	16.147	16.210	VV	2580	45961	0.65%	0.119%
323	16.236	16.210	16.256	VV	1231	23179	0.33%	0.060%
324	16.261	16.256	16.265	VV	906	4398	0.06%	0.011%
325	16.292	16.265	16.312	VV	2941	54484	0.77%	0.141%
326	16.336	16.312	16.381	VV	2405	59435	0.84%	0.153%
327	16.413	16.381	16.439	VV	6888	135880	1.92%	0.350%
328	16.462	16.439	16.478	VV	6441	122028	1.73%	0.315%
329	16.490	16.478	16.502	VV	6063	81002	1.15%	0.209%
330	16.508	16.502	16.530	VV	5705	68813	0.97%	0.177%
331	16.551	16.530	16.561	VV	9381	115117	1.63%	0.297%
332	16.581	16.561	16.629	VV	33391	467968	6.62%	1.207%
333	16.634	16.629	16.655	VV	635	6252	0.09%	0.016%
334	16.659	16.655	16.662	VV	513	1601	0.02%	0.004%
335	16.666	16.662	16.679	VV	481	3627	0.05%	0.009%
336	16.689	16.679	16.694	VV	277	1818	0.03%	0.005%
337	16.704	16.694	16.720	VV	381	2077	0.03%	0.005%
338	16.753	16.720	16.777	PV	2147	38045	0.54%	0.098%
339	16.831	16.777	16.843	VV	14445	231481	3.28%	0.597%
340	16.865	16.843	16.900	VV	80109	1208030	17.09%	3.115%
341	16.909	16.900	16.923	VV	11586	146854	2.08%	0.379%
342	16.948	16.923	17.002	VV	40135	665440	9.42%	1.716%
343	17.036	17.002	17.064	VV	7072	116078	1.64%	0.299%
344	17.081	17.064	17.116	VV	1732	33535	0.47%	0.086%
345	17.139	17.116	17.152	VV	1540	21617	0.31%	0.056%
346	17.183	17.152	17.190	VV	2390	41394	0.59%	0.107%
347	17.197	17.190	17.214	VV	2355	27337	0.39%	0.070%
348	17.256	17.214	17.269	VV	2559	61920	0.88%	0.160%
349	17.281	17.269	17.300	VV	3379	48917	0.69%	0.126%
350	17.323	17.300	17.334	VV	4474	67902	0.96%	0.175%
351	17.352	17.334	17.367	VV	5219	89047	1.26%	0.230%

rteres

352	17.388	17.367	17.414	VV	11425	177963	2.52%	0.459%
353	17.445	17.414	17.455	VV	13748	189340	2.68%	0.488%
354	17.476	17.455	17.502	VV	44797	643810	9.11%	1.660%
355	17.515	17.502	17.546	VV	6415	116162	1.64%	0.300%
356	17.574	17.546	17.615	VV	24151	358052	5.07%	0.923%
357	17.684	17.615	17.720	VV	59434	1027245	14.54%	2.649%
358	17.744	17.720	17.769	VV	56182	903036	12.78%	2.329%
359	17.785	17.769	17.795	VV	22325	320735	4.54%	0.827%
360	17.814	17.795	17.877	VV	43273	770529	10.90%	1.987%
361	17.901	17.877	17.932	VV	8830	154346	2.18%	0.398%
362	17.943	17.932	17.951	VV	1242	13119	0.19%	0.034%
363	17.960	17.951	17.980	VV	1407	19402	0.27%	0.050%
364	18.017	17.980	18.055	VV	3080	78628	1.11%	0.203%
365	18.096	18.055	18.135	VV	3141	100622	1.42%	0.259%
366	18.185	18.135	18.200	VBA	13243	331320	4.69%	0.854%

Sum of corrected areas: 38776854

Aromatic EPH 093024.M Wed Oct 23 11:26:07 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067485.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 01:18
Operator : YP/AJ
Sample : PB164309BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164309BL

Integration File: autoint1.e
Quant Time: Oct 23 04:51:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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...	12.937	3901025	34.463 ug/ml
Spiked Amount 50.000		Recovery = 68.93%	
Target Compounds			

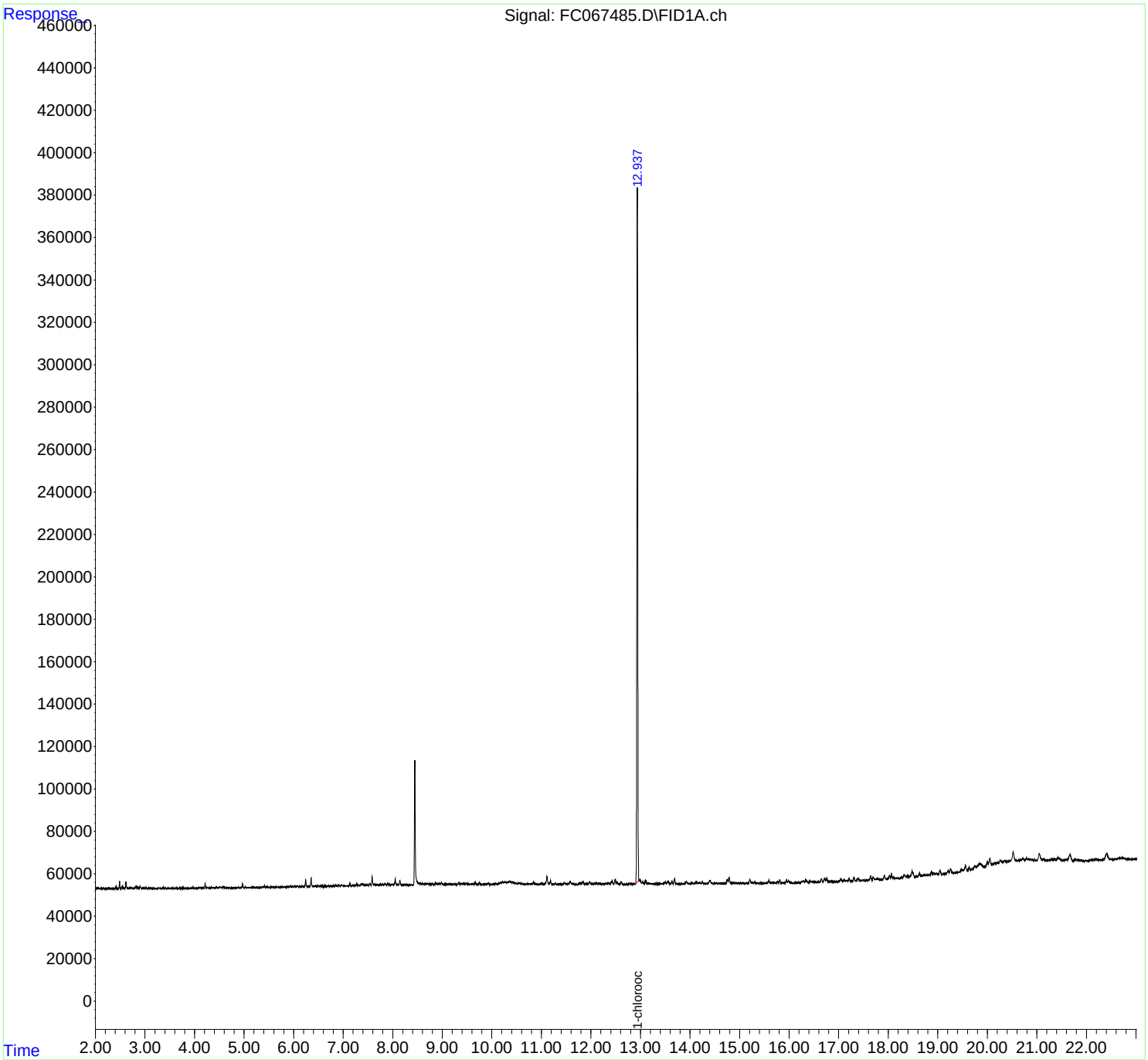
(f)=RT Delta > 1/2 Window (m)=manual int.

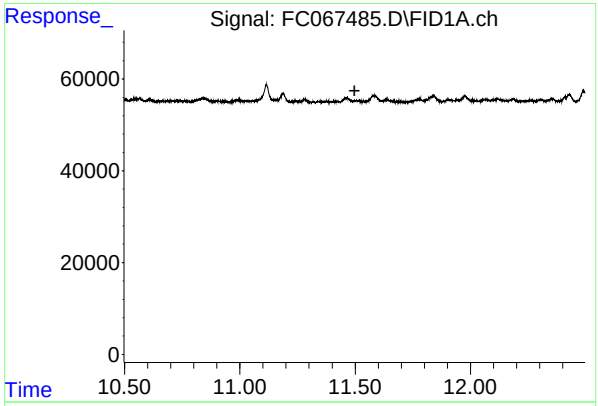
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067485.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 01:18
Operator : YP/AJ
Sample : PB164309BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164309BL

Integration File: autoint1.e
Quant Time: Oct 23 04:51:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

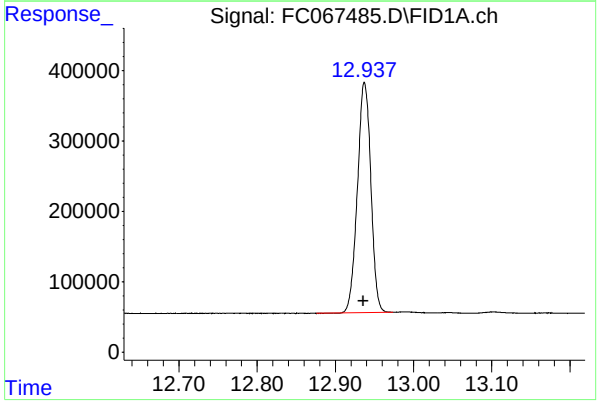




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.497 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164309BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.937 min
Delta R.T.: 0.002 min
Response: 3901025
Conc: 34.46 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067485.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 01:18
Sample : PB164309BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	12.937	12.875	12.974	BV	326561	3901025	100.00%	100.000%
			Sum of corrected areas:			3901025		

Aliphatic EPH 100224.M Wed Oct 23 05:03:16 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048548.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 01:18
Operator : YP/AJ
Sample : PB164309BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164309BL

Integration File: autoint1.e
Quant Time: Oct 23 05:08:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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...	7.372	7693093	46.465 ug/ml
Spiked Amount 50.000		Recovery =	92.93%
6) S 2-Flurobiphenyl (SURR)	8.220	4279022	41.262 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	82.52%
11) S ortho-Terphenyl (SURR)	11.259	7455289	40.519 ug/ml
Spiked Amount 50.000		Recovery =	81.04%
Target Compounds			

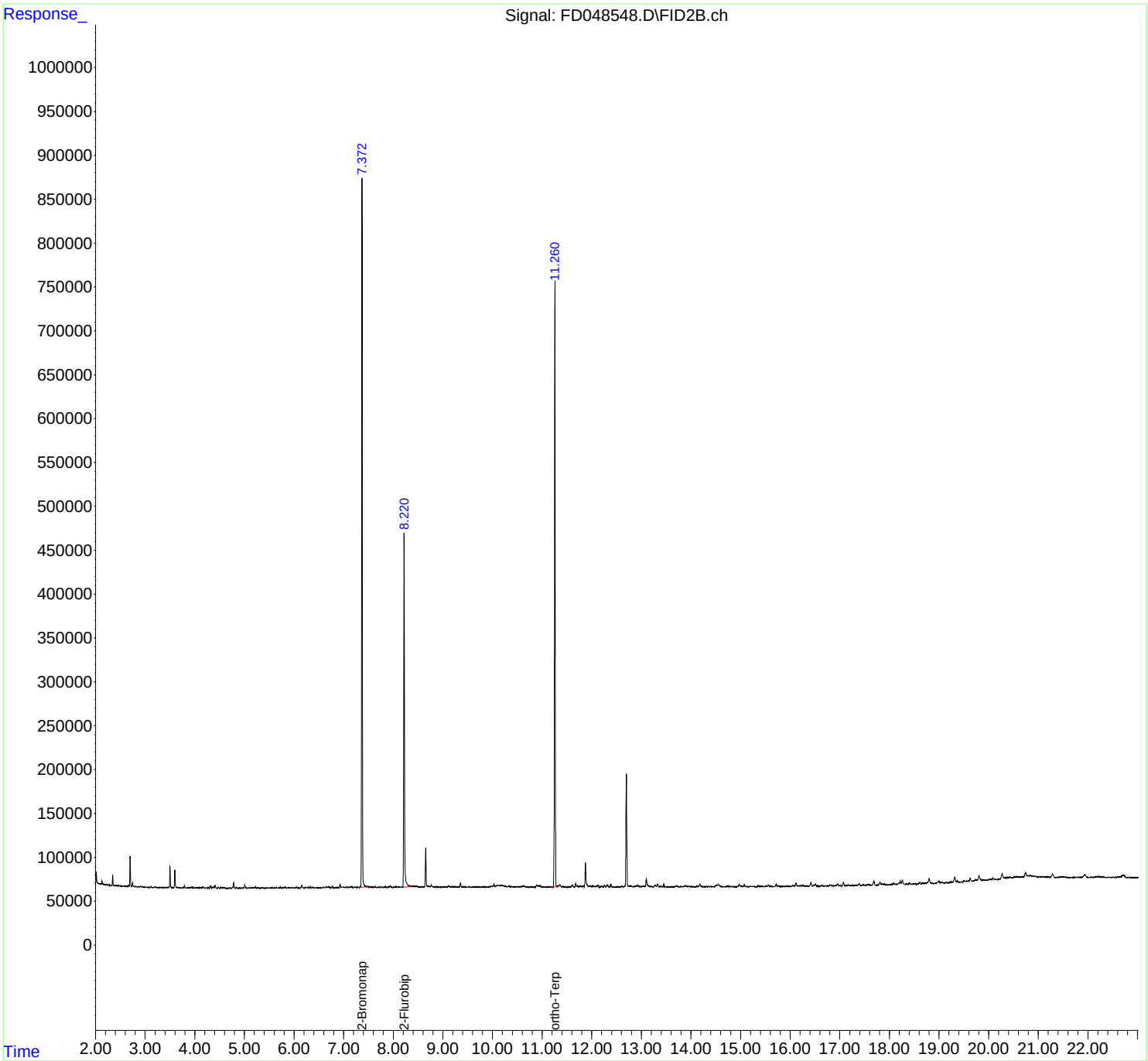
(f)=RT Delta > 1/2 Window (m)=manual int.

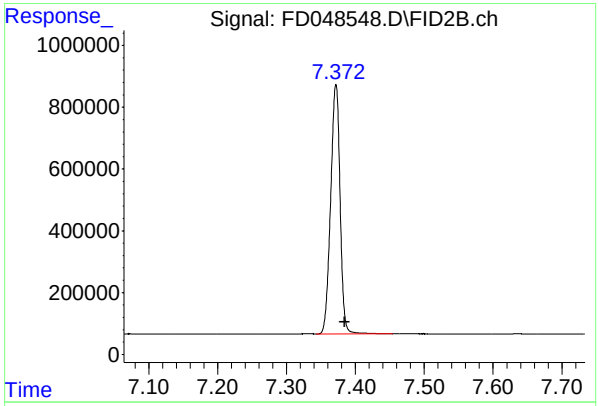
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048548.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 01:18
Operator : YP/AJ
Sample : PB164309BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164309BL

Integration File: autoint1.e
Quant Time: Oct 23 05:08:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

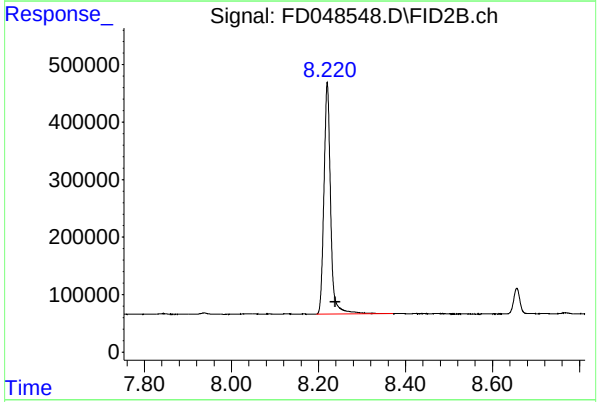




#4 2-Bromonaphthalene (SURR)

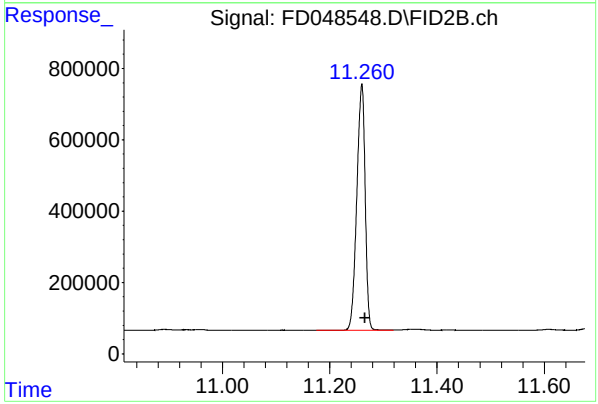
R.T.: 7.372 min
Delta R.T.: -0.013 min
Response: 7693093
Conc: 46.46 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164309BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.019 min
Response: 4279022
Conc: 41.26 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.259 min
Delta R.T.: -0.006 min
Response: 7455289
Conc: 40.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048548.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 01:18
Sample : PB164309BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	7.372	7.343	7.455	PV	807969	7693093	100.00%	39.599%
2	8.220	8.195	8.371	BV	402444	4279022	55.62%	22.026%
3	11.259	11.175	11.318	BV	676625	7455289	96.91%	38.375%
			Sum of corrected areas:			19427404		

Aromatic EPH 093024.M Wed Oct 23 05:17:38 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067486.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 01:53
Operator : YP/AJ
Sample : PB164309BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164309BS

Integration File: autoint1.e
Quant Time: Oct 23 04:51:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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...	12.936	3694096	32.635 ug/ml
Spiked Amount	50.000		Recovery =	65.27%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	3101220	24.465 ug/ml
2) T	n-Decane (C10)	4.339	3906174	30.388 ug/ml
4) T	n-Dodecane (C12)	6.355	4530547	34.914 ug/ml
6) T	n-Tetradecane (C14)	8.148	4866594	37.785 ug/ml
7) T	n-Hexadecane (C16)	9.747	5243858	39.393 ug/ml
8) T	n-Octadecane (C18)	11.187	5496331	40.533 ug/ml
10) T	n-Eicosane (C20)	12.495	5863944	44.910 ug/ml
11) T	n-Heneicosane (C21)	13.105	5694154	44.397 ug/ml
13) T	n-Docosane (C22)	13.691	5690962	44.569 ug/ml
14) T	n-Tetracosane (C24)	14.793	5624464	43.978 ug/ml
15) T	n-Hexacosane (C26)	15.812	5544919	43.977 ug/ml
16) T	n-Octacosane (C28)	16.761	5490169	43.701 ug/ml
17) T	n-Tricontane (C30)	17.647	5540886	43.011 ug/ml
18) T	n-Dotriacontane (C32)	18.479	5534007	44.298 ug/ml
19) T	n-Tetratriacontane (C34)	19.260	5567290	50.946 ug/ml
20) T	n-Hexatriacontane (C36)	19.998	5533924	58.549 ug/ml
21) T	n-Octatriacontane (C38)	20.723	5625748	64.148 ug/ml
22) T	n-Tetracontane (C40)	21.608	5705225	66.303 ug/ml

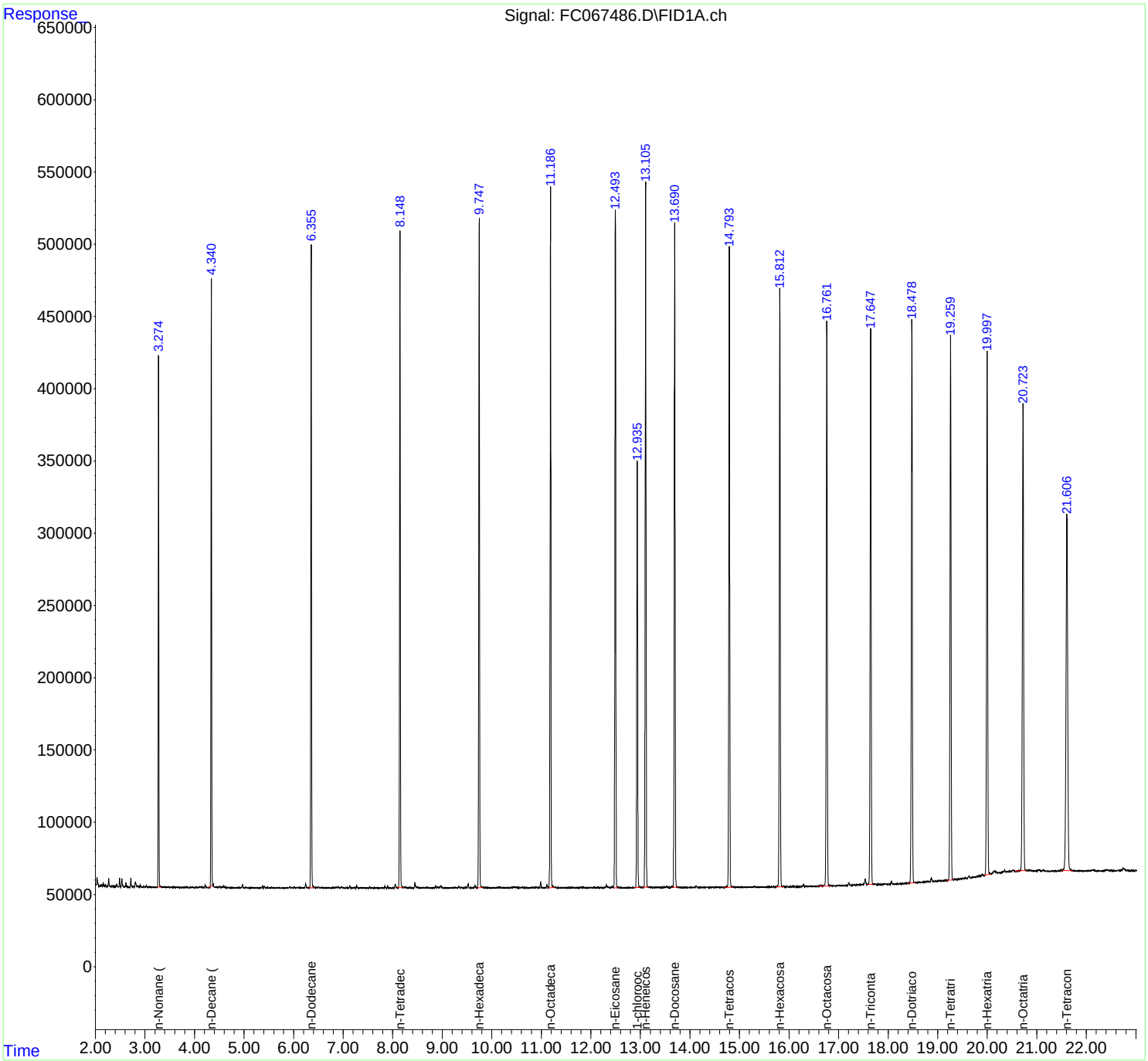
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067486.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 01:53
Operator : YP/AJ
Sample : PB164309BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164309BS

Integration File: autoint1.e
Quant Time: Oct 23 04:51:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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\FC102224AL\
Data File : FC067486.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 01:53
Sample : PB164309BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.274	3.245	3.329	BB	367995	3101220	52.89%	3.156%
2	4.339	4.284	4.370	BV	423405	3906174	66.61%	3.976%
3	6.355	6.294	6.422	BV	445721	4530547	77.26%	4.611%
4	8.148	8.087	8.219	BB	453822	4866594	82.99%	4.953%
5	9.747	9.707	9.824	BB	463712	5243858	89.43%	5.337%
6	11.187	11.147	11.260	PV	486044	5496331	93.73%	5.594%
7	12.495	12.455	12.559	PB	465632	5863944	100.00%	5.968%
8	12.936	12.867	13.000	BB	294263	3694096	63.00%	3.760%
9	13.105	13.040	13.165	BB	483462	5694154	97.10%	5.795%
10	13.691	13.652	13.759	VB	457631	5690962	97.05%	5.792%
11	14.793	14.690	14.867	BB	445800	5624464	95.92%	5.724%
12	15.812	15.725	15.887	BB	413991	5544919	94.56%	5.643%
13	16.761	16.592	16.834	BB	391172	5490169	93.63%	5.588%
14	17.647	17.584	17.714	BB	384030	5540886	94.49%	5.639%
15	18.479	18.404	18.552	BB	390079	5534007	94.37%	5.632%
16	19.260	19.177	19.317	BB	377523	5567290	94.94%	5.666%
17	19.998	19.927	20.072	BB	357729	5533924	94.37%	5.632%
18	20.723	20.570	20.794	BB	323012	5625748	95.94%	5.726%
19	21.608	21.500	21.734	BB	244753	5705225	97.29%	5.807%
			Sum of corrected areas:			98254512		

Aliphatic EPH 100224.M Wed Oct 23 05:03:33 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048549.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 01:53
Operator : YP/AJ
Sample : PB164309BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164309BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 05:08:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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...	7.375	9156141	55.301 ug/ml
	Spiked Amount 50.000		Recovery = 110.60%	
6)	S 2-Flurobiphenyl (SURR)	8.226	6092899	58.752 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 117.50%	
11)	S ortho-Terphenyl (SURR)	11.262	8373445	45.509 ug/ml
	Spiked Amount 50.000		Recovery = 91.02%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.198	7084905	40.426 ug/ml
2)	T Naphthalene (C11.7)	5.715	8079742	43.274 ug/ml
3)	T 2-Methylnaphthalene (...	6.762	7936048	41.992 ug/ml
5)	T Acenaphthylene (C15.06)	8.028	8489019	44.250 ug/ml
7)	T Acenaphthene (C15.5)	8.324	8910017	47.104 ug/ml
8)	T Flouorene (C16.55)	9.102	9180269	50.811 ug/ml
9)	T Phenanthrene (C19.36)	10.490	9364043	52.836 ug/ml
10)	T Anthracene (C19.43)	10.566	9496638	53.370 ug/ml
12)	T Fluoranthene (C21.85)	12.296	9500306	52.525 ug/mlm
13)	T Pyrene (C20.8)	12.589	9898866	55.280 ug/ml
14)	T Benzo[a]anthracene (C...	14.457	8783760	54.962 ug/ml
15)	T Chrysene (C27.41)	14.501	8916179	47.801 ug/ml
16)	T benzo[b]fluoranthene ...	16.006	8570622	51.462 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.041	8531946	50.262 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.382	8266390	50.577 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.750	8684848	66.024 ug/ml
20)	T Dibenz[a,h]anthracene...	17.788	8271453	49.431 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.002	7994863	49.222 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

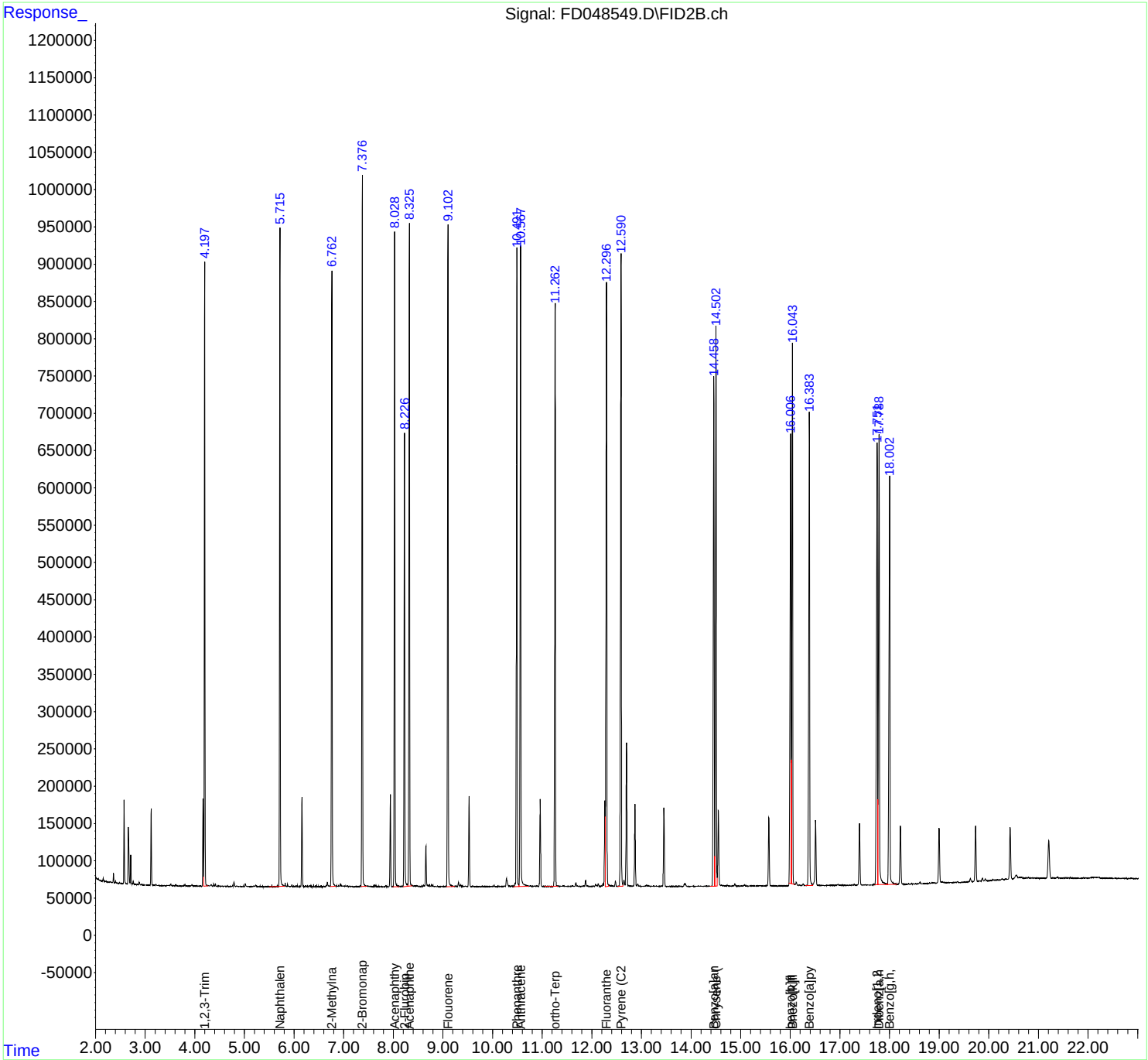
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048549.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 01:53
Operator : YP/AJ
Sample : PB164309BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164309BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 05:08:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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 :
PB164309BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10222
Data File : FD048549.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 01:53
Sample : PB164309BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.198	4.180	4.268	VV	836237	7084905	66.05%	3.918%
2	5.715	5.498	5.804	BV	878875	8079742	75.33%	4.469%
3	6.762	6.728	6.845	PV	817737	7936048	73.99%	4.389%
4	7.375	7.348	7.466	VV	937076	9156141	85.37%	5.064%
5	8.028	7.989	8.114	VV	869583	8489019	79.15%	4.695%
6	8.226	8.193	8.294	PV	599262	6092899	56.81%	3.370%
7	8.324	8.294	8.384	VV	888565	8910017	83.07%	4.928%
8	9.102	9.067	9.238	VV	874266	9180269	85.59%	5.077%
9	10.490	10.415	10.531	PV	864037	9364043	87.30%	5.179%
10	10.566	10.531	10.738	VV	873741	9496638	88.54%	5.252%
11	11.262	11.051	11.321	BV	777876	8373445	78.07%	4.631%
12	12.296	12.236	12.448	VV	799823	10725861	100.00%	5.932%
13	12.589	12.518	12.627	PV	868528	9898866	92.29%	5.475%
14	14.457	14.381	14.476	BV	684953	8783760	81.89%	4.858%
15	14.501	14.476	14.526	VV	749601	8916179	83.13%	4.931%
16	16.006	15.971	16.021	BV	601254	8570622	79.91%	4.740%
17	16.041	16.021	16.094	VV	714118	8531946	79.55%	4.719%
18	16.382	16.304	16.453	BV	623291	8266390	77.07%	4.572%
19	17.750	17.701	17.764	BV	603505	8684848	80.97%	4.803%
20	17.788	17.764	17.953	VV	602947	8271453	77.12%	4.575%
21	18.002	17.953	18.158	VV	540430	7994863	74.54%	4.422%

Sum of corrected areas: 180807953

Aromatic EPH 093024.M Wed Oct 23 05:18:21 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067487.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 02:29
Operator : YP/AJ
Sample : PB164309BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164309BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 04:51:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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...	12.936	3849203	34.005 ug/ml
Spiked Amount	50.000		Recovery =	68.01%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	3057838	24.123 ug/ml
2) T	n-Decane (C10)	4.340	3912928	30.441 ug/ml
4) T	n-Dodecane (C12)	6.356	4501163	34.688 ug/ml
6) T	n-Tetradecane (C14)	8.149	4855616	37.700 ug/ml
7) T	n-Hexadecane (C16)	9.748	5240992	39.371 ug/ml
8) T	n-Octadecane (C18)	11.187	5496714	40.536 ug/ml
10) T	n-Eicosane (C20)	12.495	5865513	44.922 ug/ml
11) T	n-Heneicosane (C21)	13.106	5700667	44.447 ug/ml
13) T	n-Docosane (C22)	13.691	5698783	44.631 ug/ml
14) T	n-Tetracosane (C24)	14.791	5633195	44.046 ug/ml
15) T	n-Hexacosane (C26)	15.812	5565510	44.141 ug/ml
16) T	n-Octacosane (C28)	16.759	5506276	43.830 ug/mlm
17) T	n-Tricontane (C30)	17.646	5575869	43.283 ug/ml
18) T	n-Dotriacontane (C32)	18.478	5572714	44.607 ug/ml
19) T	n-Tetratriacontane (C34)	19.260	5614082	51.375 ug/ml
20) T	n-Hexatriacontane (C36)	19.999	5593128	59.176 ug/ml
21) T	n-Octatriacontane (C38)	20.724	5700340	64.998 ug/ml
22) T	n-Tetracontane (C40)	21.610	5731280	66.606 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

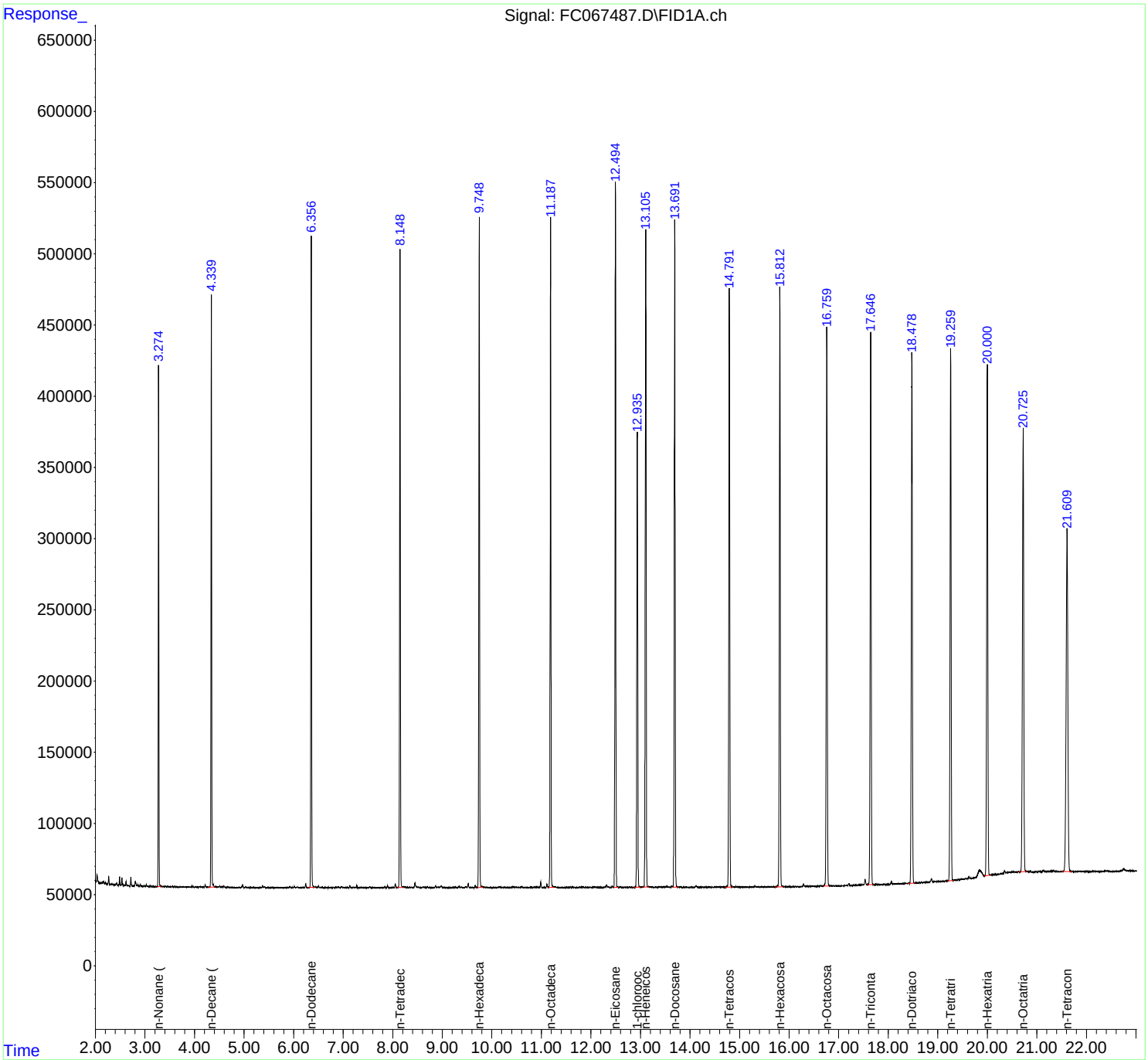
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067487.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 02:29
Operator : YP/AJ
Sample : PB164309BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164309BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 04:51:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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 :
PB164309BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10222
Data File : FC067487.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 02:29
Sample : PB164309BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.274	3.245	3.332	BB	366078	3057838	52.13%	3.099%
2	4.340	4.285	4.415	BB	416364	3912928	66.71%	3.965%
3	6.356	6.292	6.424	BB	458751	4501163	76.74%	4.561%
4	8.149	8.087	8.222	BB	448023	4855616	82.78%	4.921%
5	9.748	9.709	9.822	BB	470622	5240992	89.35%	5.311%
6	11.187	11.145	11.262	PB	471530	5496714	93.71%	5.570%
7	12.495	12.457	12.557	PB	491809	5865513	100.00%	5.944%
8	12.936	12.867	13.002	BB	319117	3849203	65.62%	3.901%
9	13.106	13.042	13.172	BB	461521	5700667	97.19%	5.777%
10	13.691	13.654	13.757	VB	466546	5698783	97.16%	5.775%
11	14.791	14.702	14.862	BB	420256	5633195	96.04%	5.709%
12	15.812	15.720	15.884	BB	420461	5565510	94.89%	5.640%
13	16.760	16.590	16.830	BB	391958	5514062	94.01%	5.588%
14	17.646	17.580	17.709	BB	388927	5575869	95.06%	5.650%
15	18.478	18.397	18.537	BB	369606	5572714	95.01%	5.647%
16	19.260	19.192	19.319	BB	370975	5614082	95.71%	5.689%
17	19.999	19.939	20.065	VB	359379	5593128	95.36%	5.668%
18	20.724	20.640	20.794	BB	308136	5700340	97.18%	5.777%
19	21.610	21.514	21.717	BB	239739	5731280	97.71%	5.808%
			Sum of corrected areas:			98679597		

Aliphatic EPH 100224.M Wed Oct 23 05:03:54 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048550.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 02:29
Operator : YP/AJ
Sample : PB164309BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164309BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 05:09:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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...	7.376	9146806	55.245 ug/ml
Spiked Amount	50.000		Recovery =	110.49%
6) S	2-Flurobiphenyl (SURR)	8.226	6093512	58.758 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	117.52%
11) S	ortho-Terphenyl (SURR)	11.262	8378054	45.534 ug/ml
Spiked Amount	50.000		Recovery =	91.07%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.198	7030766	40.117 ug/ml
2) T	Naphthalene (C11.7)	5.716	8055709	43.145 ug/ml
3) T	2-Methylnaphthalene (...	6.762	7931709	41.969 ug/ml
5) T	Acenaphthylene (C15.06)	8.029	8484379	44.226 ug/ml
7) T	Acenaphthene (C15.5)	8.325	8922624	47.171 ug/ml
8) T	Flouorene (C16.55)	9.102	9130828	50.538 ug/ml
9) T	Phenanthrene (C19.36)	10.490	9336772	52.682 ug/ml
10) T	Anthracene (C19.43)	10.566	9469937	53.220 ug/ml
12) T	Fluoranthene (C21.85)	12.295	9385127	51.888 ug/mlm
13) T	Pyrene (C20.8)	12.589	9864483	55.088 ug/ml
14) T	Benzo[a]anthracene (C...	14.457	8774935	54.907 ug/ml
15) T	Chrysene (C27.41)	14.501	8903794	47.735 ug/ml
16) T	benzo[b]fluoranthene ...	16.005	8569342	51.455 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.041	8532341	50.265 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.381	8284459	50.687 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.750	8723460	66.318 ug/ml
20) T	Dibenz[a,h]anthracene...	17.787	8242945	49.260 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.001	7963577	49.029 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

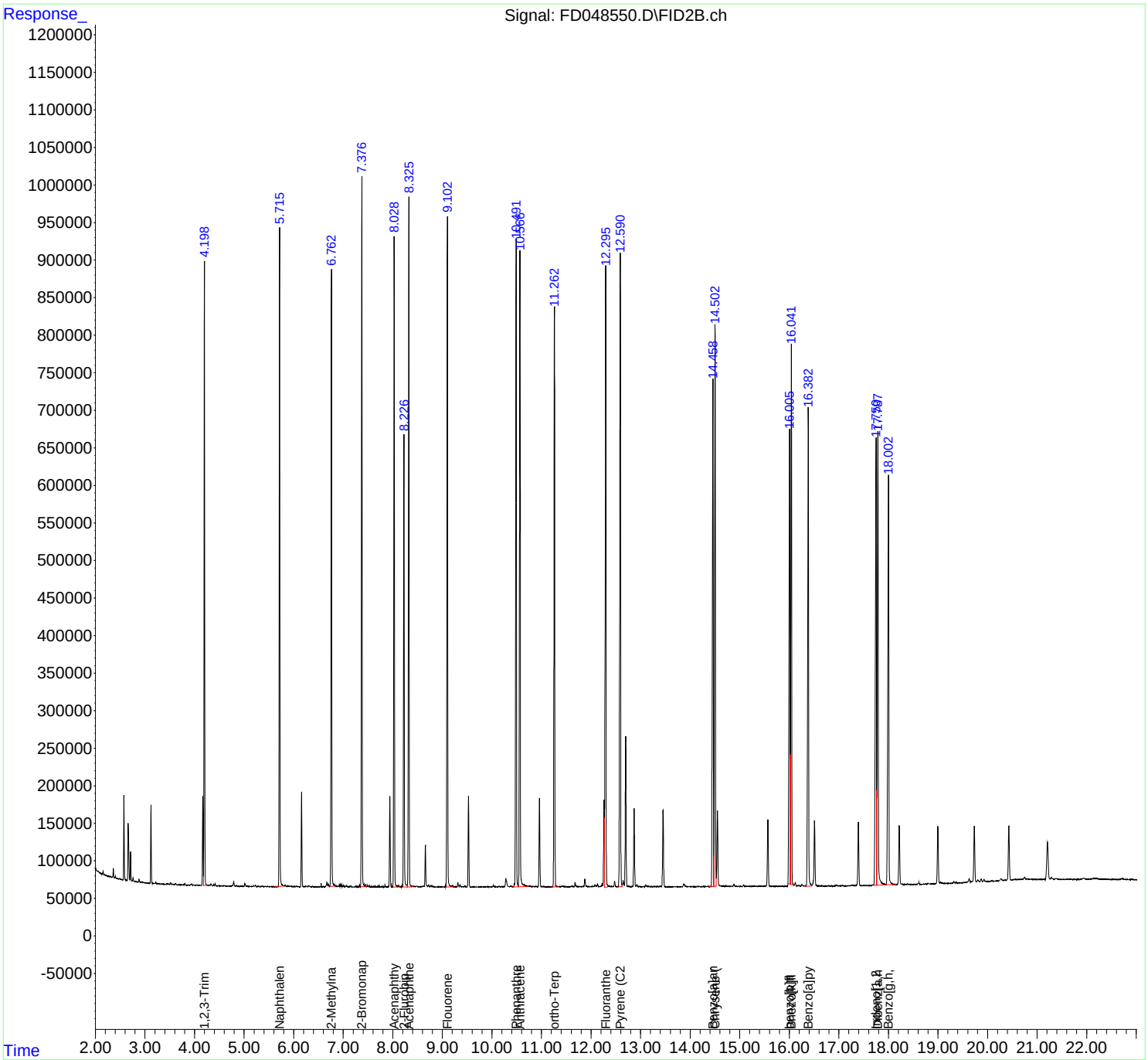
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048550.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 02:29
Operator : YP/AJ
Sample : PB164309BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164309BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 05:09:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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 :
PB164309BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10222
Data File : FD048550.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 02:29
Sample : PB164309BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.198	4.180	4.268	VV	827714	7030766	65.78%	3.895%
2	5.716	5.608	5.807	BV	872198	8055709	75.36%	4.462%
3	6.762	6.727	6.851	PV	817087	7931709	74.20%	4.394%
4	7.376	7.348	7.464	PV	934237	9146806	85.57%	5.067%
5	8.029	7.996	8.151	PV	862691	8484379	79.38%	4.700%
6	8.226	8.194	8.294	PV	599105	6093512	57.01%	3.375%
7	8.325	8.294	8.414	VV	907957	8922624	83.48%	4.942%
8	9.102	9.071	9.234	VV	881688	9130828	85.42%	5.058%
9	10.490	10.418	10.534	PV	875080	9336772	87.35%	5.172%
10	10.566	10.534	10.738	VV	832435	9469937	88.60%	5.246%
11	11.262	11.204	11.334	BV	772465	8378054	78.38%	4.641%
12	12.295	12.236	12.451	VV	821608	10688941	100.00%	5.921%
13	12.589	12.548	12.626	BV	832540	9864483	92.29%	5.464%
14	14.457	14.378	14.476	BV	678979	8774935	82.09%	4.861%
15	14.501	14.476	14.526	VV	744673	8903794	83.30%	4.932%
16	16.005	15.971	16.020	BV	603474	8569342	80.17%	4.747%
17	16.041	16.020	16.092	VV	721893	8532341	79.82%	4.726%
18	16.381	16.311	16.454	PV	632223	8284459	77.50%	4.589%
19	17.750	17.701	17.764	BV	607539	8723460	81.61%	4.832%
20	17.787	17.764	17.951	VV	610154	8242945	77.12%	4.566%
21	18.001	17.951	18.154	VB	543219	7963577	74.50%	4.411%

Sum of corrected areas: 180529374

Aromatic EPH 093024.M Wed Oct 23 05:19:15 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067492.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 05:28
Operator : YP/AJ
Sample : P4460-03MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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...	12.935	3499428	30.915 ug/mlm
Spiked Amount	50.000		Recovery =	61.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	3168879	24.999 ug/ml
2) T	n-Decane (C10)	4.340	4004691	31.155 ug/ml
4) T	n-Dodecane (C12)	6.357	6833351	52.661 ug/mlm
6) T	n-Tetradecane (C14)	8.152	10424558	80.938 ug/mlm
7) T	n-Hexadecane (C16)	9.748	6570361	49.357 ug/ml
8) T	n-Octadecane (C18)	11.187	5637137	41.571 ug/ml
10) T	n-Eicosane (C20)	12.494	5679037	43.494 ug/ml
11) T	n-Heneicosane (C21)	13.106	5457323	42.550 ug/ml
13) T	n-Docosane (C22)	13.692	5494434	43.030 ug/ml
14) T	n-Tetracosane (C24)	14.793	5335575	41.719 ug/ml
15) T	n-Hexacosane (C26)	15.812	5255785	41.684 ug/mlm
16) T	n-Octacosane (C28)	16.761	5245867	41.757 ug/ml
17) T	n-Tricontane (C30)	17.647	5249681	40.751 ug/ml
18) T	n-Dotriacontane (C32)	18.478	5231590	41.877 ug/ml
19) T	n-Tetratriacontane (C34)	19.260	5283731	48.352 ug/ml
20) T	n-Hexatriacontane (C36)	20.000	5262809	55.681 ug/mlm
21) T	n-Octatriacontane (C38)	20.722	5358205	61.097 ug/ml
22) T	n-Tetracontane (C40)	21.609	5468787	63.555 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

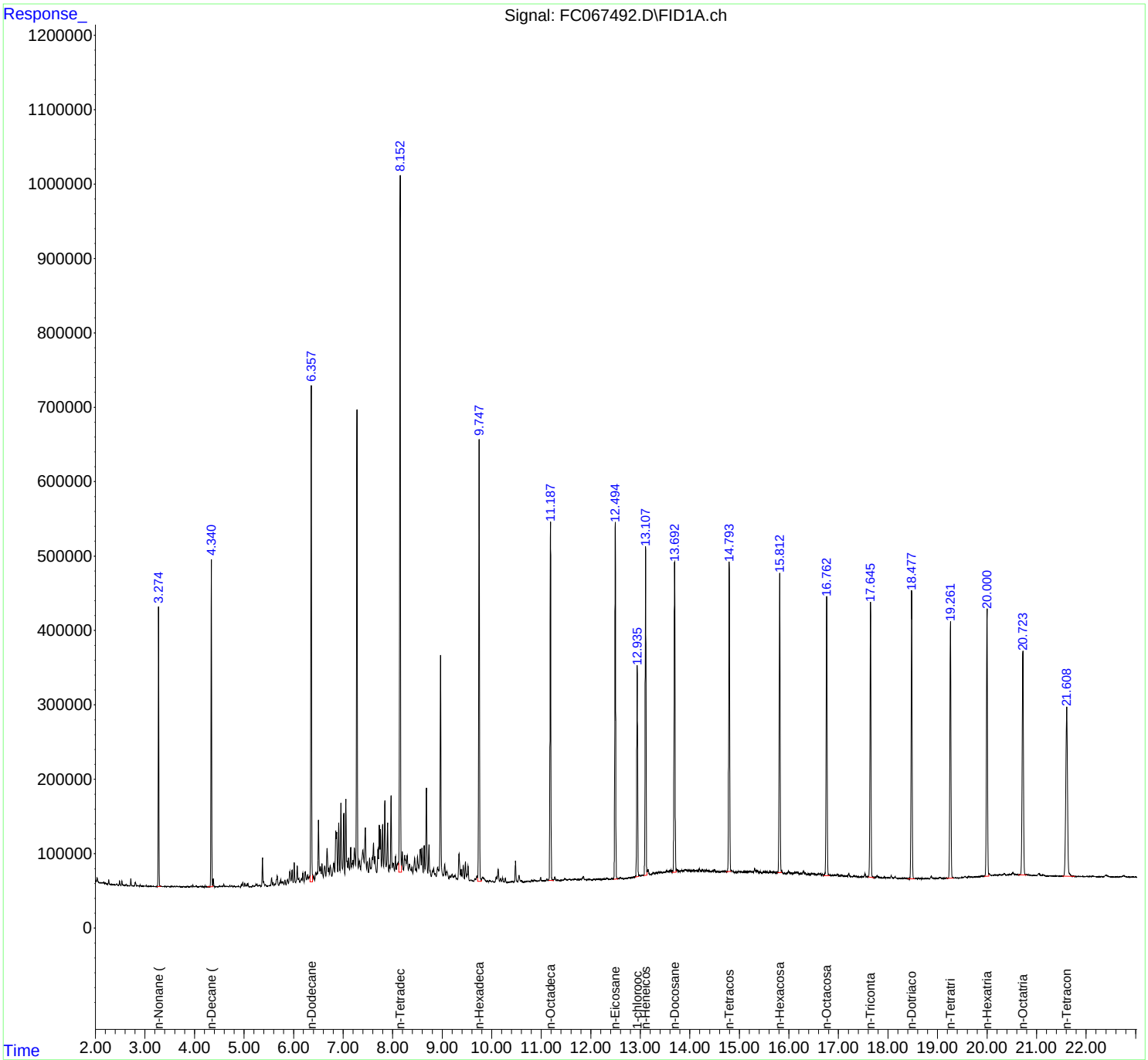
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067492.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 05:28
Operator : YP/AJ
Sample : P4460-03MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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 :
WB-303-BOTMS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10222
Data File : FC067492.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 05:28
Sample : P4460-03MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.274	3.243	3.358	PV	375417	3182670	26.98%	1.404%
2	3.371	3.358	3.384	VV	335	3628	0.03%	0.002%
3	3.398	3.384	3.437	VV	393	7340	0.06%	0.003%
4	3.474	3.437	3.503	VV	488	9158	0.08%	0.004%
5	3.514	3.503	3.521	VV	230	1633	0.01%	0.001%
6	3.540	3.521	3.569	VV	631	11210	0.10%	0.005%
7	3.598	3.569	3.628	VV	530	9119	0.08%	0.004%
8	3.646	3.628	3.685	VV	790	11943	0.10%	0.005%
9	3.714	3.685	3.750	VV	292	6211	0.05%	0.003%
10	3.765	3.750	3.799	VV	373	5710	0.05%	0.003%
11	3.811	3.799	3.827	VV	202	2069	0.02%	0.001%
12	3.858	3.827	3.900	PV	535	12541	0.11%	0.006%
13	3.939	3.900	3.953	PV	1687	21376	0.18%	0.009%
14	3.968	3.953	3.987	VV	2425	21828	0.19%	0.010%
15	4.001	3.987	4.018	VV	502	5898	0.05%	0.003%
16	4.035	4.018	4.085	VV	1892	20992	0.18%	0.009%
17	4.117	4.085	4.134	VV	1309	17985	0.15%	0.008%
18	4.144	4.134	4.194	VV	731	11910	0.10%	0.005%
19	4.215	4.194	4.234	VV	1377	13220	0.11%	0.006%
20	4.253	4.234	4.275	VV	397	5510	0.05%	0.002%
21	4.291	4.275	4.309	VV	430	4361	0.04%	0.002%
22	4.340	4.309	4.365	VV	438253	4012442	34.01%	1.771%
23	4.380	4.365	4.427	VV	11049	115468	0.98%	0.051%
24	4.447	4.427	4.474	VV	398	8215	0.07%	0.004%
25	4.505	4.474	4.524	VV	1428	23277	0.20%	0.010%
26	4.536	4.524	4.551	VV	877	11801	0.10%	0.005%
27	4.563	4.551	4.576	VV	1501	15285	0.13%	0.007%
28	4.592	4.576	4.608	VV	3406	32242	0.27%	0.014%
29	4.620	4.608	4.632	VV	1357	12162	0.10%	0.005%
30	4.646	4.632	4.659	VV	1032	13603	0.12%	0.006%
31	4.664	4.659	4.682	VV	831	8025	0.07%	0.004%
32	4.713	4.682	4.731	VV	2157	28697	0.24%	0.013%
33	4.754	4.731	4.775	VV	2037	28373	0.24%	0.013%
34	4.790	4.775	4.841	VV	1206	27164	0.23%	0.012%
35	4.862	4.841	4.878	VV	980	12433	0.11%	0.005%
36	4.892	4.878	4.918	VV	1043	14733	0.12%	0.007%

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Manual IntegrationsAPPROVED

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rteres

37	4.947	4.918	4.958	PV	3434	34986	0.30%	0.015%
38	4.975	4.958	5.000	VV	6154	80841		
39	5.016	5.000	5.039	VV	4900	59634		
40	5.053	5.039	5.064	VV	3035	30047		
41	5.078	5.064	5.117	VV	4923	55610		
42	5.133	5.117	5.153	PV	474	5461		
43	5.174	5.153	5.201	VV	2051	29589	0.25%	0.013%
44	5.240	5.201	5.252	VV	3685	55755	0.47%	0.025%
45	5.263	5.252	5.280	VV	3702	39531	0.34%	0.017%
46	5.302	5.280	5.312	VV	1778	27466	0.23%	0.012%
47	5.322	5.312	5.346	VV	1704	21867	0.19%	0.010%
48	5.373	5.346	5.421	VV	38672	472004	4.00%	0.208%
49	5.431	5.421	5.457	VV	2802	42916	0.36%	0.019%
50	5.467	5.457	5.479	VV	1086	11666	0.10%	0.005%
51	5.494	5.479	5.503	VV	1336	15609	0.13%	0.007%
52	5.519	5.503	5.534	VV	1698	28110	0.24%	0.012%
53	5.557	5.534	5.576	VV	11755	158049	1.34%	0.070%
54	5.587	5.576	5.604	VV	5594	60096	0.51%	0.027%
55	5.622	5.604	5.634	VV	3697	51486	0.44%	0.023%
56	5.671	5.634	5.701	VV	14386	283782	2.41%	0.125%
57	5.742	5.701	5.755	VV	9526	168313	1.43%	0.074%
58	5.764	5.755	5.774	VV	6520	65922	0.56%	0.029%
59	5.786	5.774	5.805	VV	6754	94561	0.80%	0.042%
60	5.827	5.805	5.848	VV	8847	136314	1.16%	0.060%
61	5.877	5.848	5.897	VV	9137	181379	1.54%	0.080%
62	5.924	5.897	5.949	VV	19948	394295	3.34%	0.174%
63	5.970	5.949	5.993	VV	22280	334651	2.84%	0.148%
64	6.014	5.993	6.040	VV	31994	408135	3.46%	0.180%
65	6.075	6.040	6.094	VV	27835	431891	3.66%	0.191%
66	6.105	6.094	6.125	VV	10515	159543	1.35%	0.070%
67	6.160	6.125	6.171	VV	10642	227582	1.93%	0.100%
68	6.188	6.171	6.214	VV	18097	293732	2.49%	0.130%
69	6.236	6.214	6.262	VV	19517	377891	3.20%	0.167%
70	6.284	6.262	6.298	VV	15683	266959	2.26%	0.118%
71	6.309	6.298	6.316	VV	12408	122490	1.04%	0.054%
72	6.357	6.316	6.428	VV	675336	7467517	63.29%	3.295%
73	6.448	6.428	6.463	VV	18517	315554	2.67%	0.139%
74	6.504	6.463	6.529	VV	89010	1415625	12.00%	0.625%
75	6.542	6.529	6.559	VV	26373	394480	3.34%	0.174%
76	6.574	6.559	6.602	VV	30413	521763	4.42%	0.230%
77	6.630	6.602	6.652	VV	26915	614551	5.21%	0.271%
78	6.677	6.652	6.702	VV	50358	939905	7.97%	0.415%
79	6.711	6.702	6.724	VV	24468	279685	2.37%	0.123%
80	6.741	6.724	6.773	VV	27302	616954	5.23%	0.272%
81	6.812	6.773	6.830	VV	30801	758128	6.43%	0.335%
82	6.854	6.830	6.892	VV	73933	1817242	15.40%	0.802%
83	6.912	6.892	6.935	VV	84503	1200593	10.18%	0.530%
84	6.957	6.935	6.987	VV	111070	1657303	14.05%	0.731%
85	7.014	6.987	7.034	VV	98384	1347823	11.42%	0.595%
86	7.056	7.034	7.094	VV	115288	1834383	15.55%	0.809%
87	7.112	7.094	7.131	VV	37404	656023	5.56%	0.289%
88	7.155	7.131	7.173	VV	51812	869545	7.37%	0.384%
89	7.200	7.173	7.212	VV	34410	699457	5.93%	0.309%

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90	7.229	7.212	7.253	VV	50891	970935	8.23%	0.428%
91	7.281	7.253	7.306	VV	634819	7112863	60	
92	7.327	7.306	7.354	VV	33526	803028	6	
93	7.399	7.354	7.424	VV	47648	1556067	13	
94	7.449	7.424	7.476	VV	77824	1516519	12	
95	7.490	7.476	7.514	VV	32369	575357	4	
96	7.536	7.514	7.571	VV	37406	898276	7.61%	0.396%
97	7.614	7.571	7.630	VV	57365	1380145	11.70%	0.609%
98	7.642	7.630	7.679	VV	39030	818359	6.94%	0.361%
99	7.704	7.679	7.714	VV	49170	699168	5.93%	0.309%
100	7.732	7.714	7.745	VV	81353	1082672	9.18%	0.478%
101	7.756	7.745	7.775	VV	75469	955211	8.10%	0.421%
102	7.798	7.775	7.820	VV	82095	1289622	10.93%	0.569%
103	7.844	7.820	7.870	VV	113905	1748710	14.82%	0.772%
104	7.899	7.870	7.923	VV	83873	1369989	11.61%	0.605%
105	7.938	7.923	7.947	VV	27414	355426	3.01%	0.157%
106	7.969	7.947	7.993	VV	120230	1633640	13.85%	0.721%
107	8.012	7.993	8.038	VV	29408	682242	5.78%	0.301%
108	8.057	8.038	8.076	VV	38709	638942	5.42%	0.282%
109	8.152	8.076	8.179	VV	942756	11798262	100.00%	5.206%
110	8.196	8.179	8.219	VV	45176	773497	6.56%	0.341%
111	8.244	8.219	8.276	VV	40165	1072786	9.09%	0.473%
112	8.294	8.276	8.319	VV	40002	815074	6.91%	0.360%
113	8.340	8.319	8.373	VV	28631	774799	6.57%	0.342%
114	8.390	8.373	8.409	VV	24302	444211	3.77%	0.196%
115	8.446	8.409	8.483	VV	36759	1107387	9.39%	0.489%
116	8.503	8.483	8.531	VV	38681	803149	6.81%	0.354%
117	8.562	8.531	8.580	VV	47719	1073106	9.10%	0.474%
118	8.594	8.580	8.617	VV	49712	758495	6.43%	0.335%
119	8.636	8.617	8.655	VV	52426	774487	6.56%	0.342%
120	8.683	8.655	8.710	VV	129299	1909167	16.18%	0.842%
121	8.734	8.710	8.781	VV	53726	1075531	9.12%	0.475%
122	8.829	8.781	8.854	VV	22295	736579	6.24%	0.325%
123	8.860	8.854	8.880	VV	15006	207830	1.76%	0.092%
124	8.910	8.880	8.929	VV	24018	553576	4.69%	0.244%
125	8.969	8.929	9.024	VV	307474	4147887	35.16%	1.830%
126	9.052	9.024	9.074	VV	27404	563177	4.77%	0.249%
127	9.095	9.074	9.137	VV	17438	534539	4.53%	0.236%
128	9.159	9.137	9.177	VV	10728	238867	2.02%	0.105%
129	9.200	9.177	9.219	VV	14137	295172	2.50%	0.130%
130	9.227	9.219	9.235	VV	10967	101978	0.86%	0.045%
131	9.250	9.235	9.284	VV	12286	321018	2.72%	0.142%
132	9.293	9.284	9.311	VV	8474	130378	1.11%	0.058%
133	9.341	9.311	9.372	VV	41390	834691	7.07%	0.368%
134	9.385	9.372	9.402	VV	20346	287948	2.44%	0.127%
135	9.426	9.402	9.449	VV	25859	475610	4.03%	0.210%
136	9.471	9.449	9.492	VV	30373	464635	3.94%	0.205%
137	9.524	9.492	9.553	VV	25077	496921	4.21%	0.219%
138	9.580	9.553	9.631	VV	6374	253250	2.15%	0.112%
139	9.663	9.631	9.677	VV	7883	168476	1.43%	0.074%
140	9.701	9.677	9.716	VV	11510	215577	1.83%	0.095%
141	9.748	9.716	9.791	VV	594449	6766244	57.35%	2.986%

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142	9.818	9.791	9.839	VV	9622	233376	1.98%	0.103%
143	9.846	9.839	9.894	VV	7829	197668	1	
144	9.915	9.894	9.936	VV	5005	107946	0	
145	9.957	9.936	9.998	VV	4821	154538	1	
146	10.020	9.998	10.047	VV	4524	106795	0	
147	10.091	10.047	10.104	VV	9840	192704	1	
148	10.132	10.104	10.159	VV	20038	381674	3.24%	0.168%
149	10.180	10.159	10.200	VV	7640	137559	1.17%	0.061%
150	10.222	10.200	10.248	VV	8363	152365	1.29%	0.067%
151	10.276	10.248	10.303	VV	7934	145958	1.24%	0.064%
152	10.330	10.303	10.353	VV	2340	68039	0.58%	0.030%
153	10.380	10.353	10.391	VV	3093	63020	0.53%	0.028%
154	10.413	10.391	10.441	VV	3863	94219	0.80%	0.042%
155	10.482	10.441	10.517	VV	31000	458570	3.89%	0.202%
156	10.554	10.517	10.588	VV	11511	267887	2.27%	0.118%
157	10.599	10.588	10.630	VV	4377	91613	0.78%	0.040%
158	10.649	10.630	10.659	VV	2713	44366	0.38%	0.020%
159	10.682	10.659	10.699	VV	3516	73972	0.63%	0.033%
160	10.719	10.699	10.738	VV	3604	77924	0.66%	0.034%
161	10.755	10.738	10.779	VV	3558	77207	0.65%	0.034%
162	10.804	10.779	10.836	VV	5002	134767	1.14%	0.059%
163	10.856	10.836	10.888	VV	4960	132280	1.12%	0.058%
164	10.894	10.888	10.916	VV	4496	67448	0.57%	0.030%
165	10.936	10.916	10.949	VV	4415	74597	0.63%	0.033%
166	10.988	10.949	11.046	VV	8548	277521	2.35%	0.122%
167	11.076	11.046	11.091	VV	4124	104933	0.89%	0.046%
168	11.114	11.091	11.149	VV	6529	176153	1.49%	0.078%
169	11.187	11.149	11.244	VV	486463	5880119	49.84%	2.595%
170	11.275	11.244	11.312	VV	9204	249129	2.11%	0.110%
171	11.340	11.312	11.371	VV	4662	152035	1.29%	0.067%
172	11.419	11.371	11.436	VV	4655	170297	1.44%	0.075%
173	11.481	11.436	11.521	VV	6595	271101	2.30%	0.120%
174	11.576	11.521	11.605	VV	5725	257138	2.18%	0.113%
175	11.632	11.605	11.651	VV	5231	139676	1.18%	0.062%
176	11.676	11.651	11.694	VV	6245	142341	1.21%	0.063%
177	11.707	11.694	11.724	VV	5213	90323	0.77%	0.040%
178	11.741	11.724	11.764	VV	5278	122018	1.03%	0.054%
179	11.793	11.764	11.806	VV	5610	131794	1.12%	0.058%
180	11.850	11.806	11.891	VV	9294	324212	2.75%	0.143%
181	11.894	11.891	11.914	VV	5041	67003	0.57%	0.030%
182	11.937	11.914	11.948	VV	5157	96749	0.82%	0.043%
183	11.980	11.948	12.028	VV	5278	231255	1.96%	0.102%
184	12.073	12.028	12.097	VV	5551	204129	1.73%	0.090%
185	12.127	12.097	12.197	VV	5429	302008	2.56%	0.133%
186	12.265	12.197	12.290	VV	5703	283791	2.41%	0.125%
187	12.319	12.290	12.338	VV	6965	170521	1.45%	0.075%
188	12.347	12.338	12.389	VV	5921	163068	1.38%	0.072%
189	12.428	12.389	12.457	VV	6397	223593	1.90%	0.099%
190	12.494	12.457	12.548	VV	484020	5957829	50.50%	2.629%
191	12.593	12.548	12.661	VV	7390	411786	3.49%	0.182%
192	12.704	12.661	12.727	VV	6048	226173	1.92%	0.100%
193	12.750	12.727	12.794	VV	6646	258731	2.19%	0.114%
194	12.822	12.794	12.841	VV	7348	191980	1.63%	0.085%

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					rteres			
195	12.936	12.841	12.969	VV	287005	4099493	34.75%	1.809%
196	12.989	12.969	13.018	VV	9897	278150		
197	13.037	13.018	13.058	VV	10424	237740		
198	13.106	13.058	13.136	VV	450721	5921656	5	
199	13.155	13.136	13.214	VV	17464	624072		
200	13.264	13.214	13.294	VV	14038	574721		
201	13.317	13.294	13.341	VV	13354	362614	3.07%	0.160%
202	13.372	13.341	13.398	VV	13978	454861	3.86%	0.201%
203	13.416	13.398	13.445	VV	14165	386021	3.27%	0.170%
204	13.483	13.445	13.500	VV	14095	448906	3.80%	0.198%
205	13.533	13.500	13.564	VV	15796	564542	4.78%	0.249%
206	13.610	13.564	13.649	VV	16159	775393	6.57%	0.342%
207	13.692	13.649	13.724	VV	429624	6103422	51.73%	2.693%
208	13.735	13.724	13.799	VV	17003	692382	5.87%	0.306%
209	13.840	13.799	13.878	VV	16068	719119	6.10%	0.317%
210	13.903	13.878	13.974	VV	16950	925022	7.84%	0.408%
211	14.005	13.974	14.034	VV	15827	550910	4.67%	0.243%
212	14.078	14.034	14.104	VV	15582	643173	5.45%	0.284%
213	14.135	14.104	14.156	VV	15511	471930	4.00%	0.208%
214	14.191	14.156	14.233	VV	17748	717731	6.08%	0.317%
215	14.253	14.233	14.286	VV	17192	488982	4.14%	0.216%
216	14.311	14.286	14.328	VV	15828	377054	3.20%	0.166%
217	14.335	14.328	14.361	VV	15309	303146	2.57%	0.134%
218	14.367	14.361	14.428	VV	15101	572635	4.85%	0.253%
219	14.497	14.428	14.531	VV	16001	897856	7.61%	0.396%
220	14.538	14.531	14.582	VV	14381	412601	3.50%	0.182%
221	14.597	14.582	14.611	VV	13696	236559	2.01%	0.104%
222	14.639	14.611	14.653	VV	14044	344581	2.92%	0.152%
223	14.678	14.653	14.741	VV	14475	723368	6.13%	0.319%
224	14.793	14.741	14.834	VV	428638	6098987	51.69%	2.691%
225	14.844	14.834	14.918	VV	15104	674867	5.72%	0.298%
226	14.926	14.918	14.961	VV	13117	327309	2.77%	0.144%
227	14.985	14.961	15.013	VV	14204	416227	3.53%	0.184%
228	15.040	15.013	15.078	VV	13725	507950	4.31%	0.224%
229	15.098	15.078	15.148	VV	13452	540823	4.58%	0.239%
230	15.182	15.148	15.193	VV	13497	356345	3.02%	0.157%
231	15.218	15.193	15.266	VV	13671	575691	4.88%	0.254%
232	15.279	15.266	15.286	VV	13089	157452	1.33%	0.069%
233	15.308	15.286	15.332	VV	17571	403721	3.42%	0.178%
234	15.352	15.332	15.414	VV	14298	647517	5.49%	0.286%
235	15.423	15.414	15.463	VV	12658	351386	2.98%	0.155%
236	15.490	15.463	15.554	VV	12763	666298	5.65%	0.294%
237	15.563	15.554	15.588	VV	12386	235947	2.00%	0.104%
238	15.619	15.588	15.647	VV	12982	443050	3.76%	0.196%
239	15.669	15.647	15.675	VV	12663	204538	1.73%	0.090%
240	15.682	15.675	15.692	VV	12572	130918	1.11%	0.058%
241	15.706	15.692	15.751	VV	12526	415411	3.52%	0.183%
242	15.812	15.751	15.894	VV	400500	6250048	52.97%	2.758%
243	15.913	15.894	15.948	VV	10601	329975	2.80%	0.146%
244	15.990	15.948	16.081	VV	13293	882187	7.48%	0.389%
245	16.120	16.081	16.138	VV	11705	375193	3.18%	0.166%
246	16.164	16.138	16.228	VV	12007	575388	4.88%	0.254%

8

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

A B C D E F G H I J

rteres

247	16.290	16.228	16.311	VV	13660	530964	4.50%	0.234%
248	16.324	16.311	16.362	VV	10220	289724	2	
249	16.372	16.362	16.395	VV	8815	171876	1	
250	16.405	16.395	16.427	VV	9190	166701	1	
251	16.456	16.427	16.578	VV	9969	809609	6	
252	16.598	16.578	16.618	VV	9291	213027	1	
253	16.635	16.618	16.658	VV	9296	208352	1.77%	0.092%
254	16.671	16.658	16.694	VV	7918	170297	1.44%	0.075%
255	16.761	16.694	16.872	VV	378733	5976968	50.66%	2.637%
256	16.923	16.872	16.957	VV	7570	365693	3.10%	0.161%
257	16.982	16.957	17.031	VV	8004	302649	2.57%	0.134%
258	17.081	17.031	17.147	VV	7046	440737	3.74%	0.194%
259	17.158	17.147	17.180	VV	6230	117265	0.99%	0.052%
260	17.208	17.180	17.258	VV	8839	307876	2.61%	0.136%
261	17.267	17.258	17.287	VV	5190	83321	0.71%	0.037%
262	17.320	17.287	17.380	VV	6348	306687	2.60%	0.135%
263	17.393	17.380	17.418	VV	4975	106050	0.90%	0.047%
264	17.441	17.418	17.461	VV	4756	115407	0.98%	0.051%
265	17.480	17.461	17.504	VV	4810	121639	1.03%	0.054%
266	17.532	17.504	17.568	VV	8260	226884	1.92%	0.100%
267	17.577	17.568	17.598	VV	4814	81281	0.69%	0.036%
268	17.647	17.598	17.728	VV	373286	5547652	47.02%	2.448%
269	17.779	17.728	17.881	VV	5666	355117	3.01%	0.157%
270	17.927	17.881	17.966	VV	3977	164701	1.40%	0.073%
271	17.971	17.966	17.993	VV	3169	48573	0.41%	0.021%
272	18.008	17.993	18.018	VV	3294	44121	0.37%	0.019%
273	18.026	18.018	18.040	VV	2845	37094	0.31%	0.016%
274	18.065	18.040	18.121	VV	5905	167758	1.42%	0.074%
275	18.144	18.121	18.197	VV	4120	127240	1.08%	0.056%
276	18.206	18.197	18.261	VV	2285	72552	0.61%	0.032%
277	18.335	18.261	18.421	VV	2314	177863	1.51%	0.078%
278	18.478	18.421	18.539	VV	387826	5324275	45.13%	2.349%
279	18.567	18.539	18.591	VV	2154	51557	0.44%	0.023%
280	18.617	18.591	18.641	VV	2028	48918	0.41%	0.022%
281	18.664	18.641	18.681	VV	1597	33835	0.29%	0.015%
282	18.705	18.681	18.713	VV	1429	24843	0.21%	0.011%
283	18.738	18.713	18.750	VV	1601	32266	0.27%	0.014%
284	18.759	18.750	18.833	VV	1569	66213	0.56%	0.029%
285	18.871	18.833	18.943	VV	4363	143211	1.21%	0.063%
286	18.964	18.943	18.985	VV	1718	37304	0.32%	0.016%
287	18.995	18.985	19.004	VV	1364	14898	0.13%	0.007%
288	19.040	19.004	19.091	VV	2479	99236	0.84%	0.044%
289	19.102	19.091	19.121	VV	1627	27025	0.23%	0.012%
290	19.126	19.121	19.140	VV	1582	16575	0.14%	0.007%
291	19.166	19.140	19.180	VV	1755	37008	0.31%	0.016%
292	19.198	19.180	19.210	VV	1587	26945	0.23%	0.012%
293	19.260	19.210	19.327	VV	346443	5398120	45.75%	2.382%
294	19.369	19.327	19.394	VV	2147	77826	0.66%	0.034%
295	19.408	19.394	19.425	VV	1914	33112	0.28%	0.015%
296	19.556	19.425	19.605	VV	3615	256591	2.17%	0.113%
297	19.632	19.605	19.668	VV	3867	115303	0.98%	0.051%
298	19.675	19.668	19.714	VV	2953	75215	0.64%	0.033%
299	19.794	19.714	19.802	VV	3056	145312	1.23%	0.064%

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

rteres

300	19.897	19.802	19.938	VV	4077	275926	2.34%	0.122%
301	19.999	19.938	20.037	VV	359143	5478127	46	
302	20.046	20.037	20.113	VV	6764	244822	2	
303	20.171	20.113	20.195	VV	5386	246670	2	
304	20.207	20.195	20.217	VV	5176	66583	0	
305	20.264	20.217	20.308	VV	5428	286411	2	
306	20.348	20.308	20.401	VV	6784	308382	2.61%	0.136%
307	20.522	20.401	20.644	VV	8201	839338	7.11%	0.370%
308	20.722	20.644	20.957	VV	305333	6232503	52.83%	2.750%
309	20.967	20.957	20.984	VV	3962	62609	0.53%	0.028%
310	21.046	20.984	21.104	VV	6396	336805	2.85%	0.149%
311	21.131	21.104	21.191	VV	4718	201868	1.71%	0.089%
312	21.196	21.191	21.214	VV	3198	43939	0.37%	0.019%
313	21.223	21.214	21.238	VV	3199	44821	0.38%	0.020%
314	21.279	21.238	21.294	VV	3225	103687	0.88%	0.046%
315	21.301	21.294	21.327	VV	3136	59656	0.51%	0.026%
316	21.334	21.327	21.348	VV	3138	38920	0.33%	0.017%
317	21.392	21.388	21.405	VV	2921	29799	0.25%	0.013%
318	21.429	21.405	21.471	VV	2842	107628	0.91%	0.047%
319	21.487	21.471	21.521	VV	2691	77611	0.66%	0.034%
320	21.608	21.521	21.724	VV	228469	5748258	48.72%	2.536%
321	21.733	21.724	21.769	VV	2404	59067	0.50%	0.026%
322	21.778	21.769	21.801	VBA	2072	52173	0.44%	0.023%

Sum of corrected areas: 226623030

Aliphatic EPH 100224.M Wed Oct 23 07:56:05 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048555.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 05:28
Operator : YP/AJ
Sample : P4460-03MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-303-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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...	7.375	7933941	47.920 ug/ml
Spiked Amount	50.000		Recovery =	95.84%
6) S	2-Flurobiphenyl (SURR)	8.225	5063781	48.829 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	97.66%
11) S	ortho-Terphenyl (SURR)	11.260	6142126	33.382 ug/ml
Spiked Amount	50.000		Recovery =	66.76%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.198	6421054	36.638 ug/ml
2) T	Naphthalene (C11.7)	5.716	7710327	41.295 ug/ml
3) T	2-Methylnaphthalene (...	6.762	7476924	39.563 ug/ml
5) T	Acenaphthylene (C15.06)	8.028	7602154	39.627 ug/ml
7) T	Acenaphthene (C15.5)	8.324	8174836	43.217 ug/ml
8) T	Flouorene (C16.55)	9.102	8088227	44.767 ug/ml
9) T	Phenanthrene (C19.36)	10.489	8298893	46.826 ug/ml
10) T	Anthracene (C19.43)	10.565	8378684	47.087 ug/ml
12) T	Fluoranthene (C21.85)	12.294	8634562	47.738 ug/mlm
13) T	Pyrene (C20.8)	12.588	8939667	49.923 ug/ml
14) T	Benzo[a]anthracene (C...	14.457	7986328	49.972 ug/ml
15) T	Chrysene (C27.41)	14.501	8083838	43.339 ug/ml
16) T	benzo[b]fluoranthene ...	16.005	7807241	46.879 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.040	7804948	45.980 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.381	7535154	46.103 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.748	8092726	61.523 ug/ml
20) T	Dibenz[a,h]anthracene...	17.786	7635770	45.632 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	7369748	45.373 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

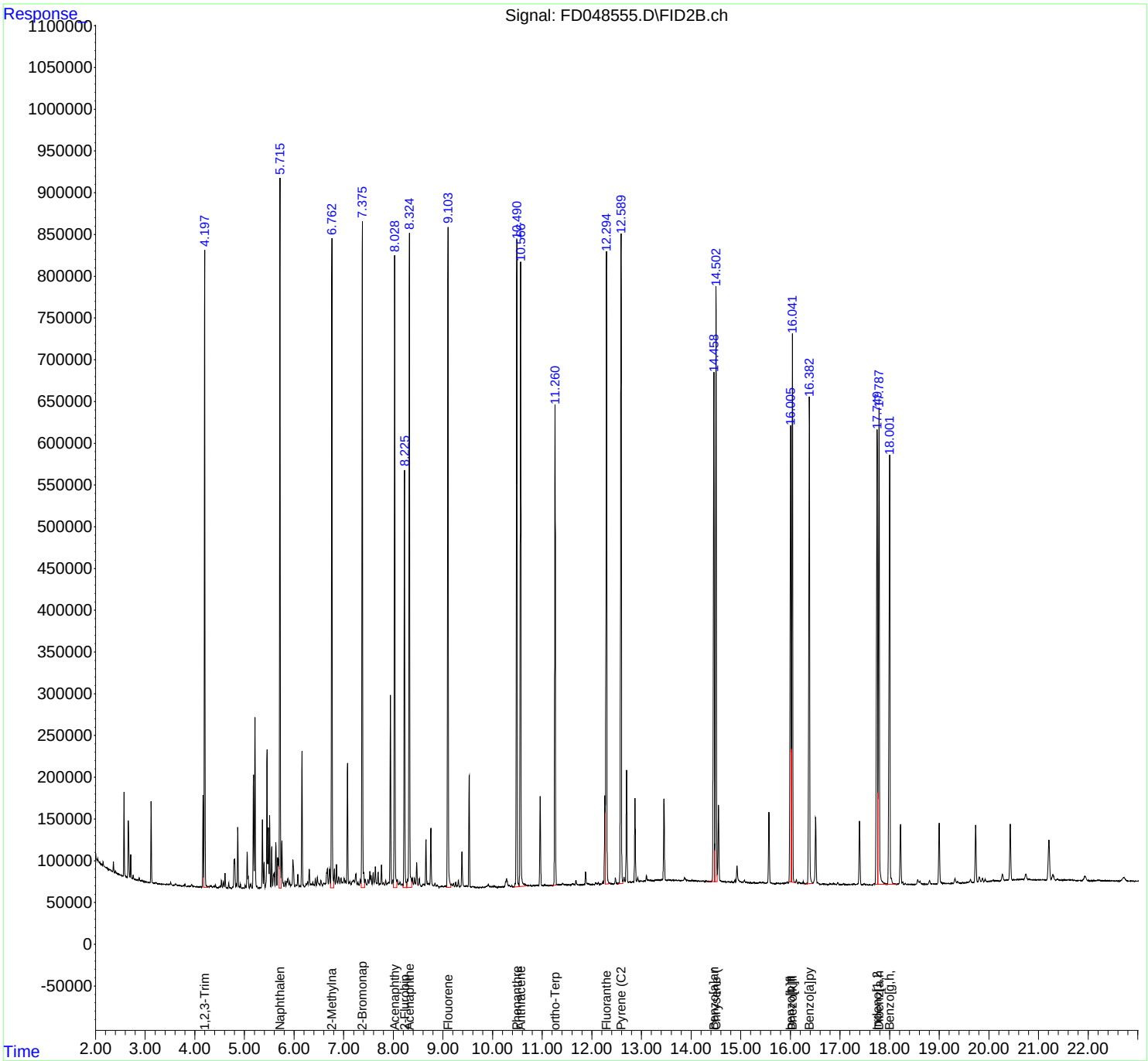
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048555.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 05:28
Operator : YP/AJ
Sample : P4460-03MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-303-BOTMS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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 :
WB-303-BOTMS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10222
Data File : FD048555.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 05:28
Sample : P4460-03MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.166	4.152	4.180	PV	102409	824568	9.04%	0.367%
2	4.198	4.180	4.260	PV	751843	6125746	67.17%	2.728%
3	4.278	4.260	4.293	PV	401	3591	0.04%	0.002%
4	4.307	4.293	4.315	PV	1715	13804	0.15%	0.006%
5	4.331	4.315	4.360	VV	2221	27033	0.30%	0.012%
6	4.387	4.360	4.402	VV	2124	24957	0.27%	0.011%
7	4.417	4.402	4.454	VV	3400	33115	0.36%	0.015%
8	4.484	4.454	4.495	PV	733	8659	0.09%	0.004%
9	4.511	4.495	4.522	VV	2566	23806	0.26%	0.011%
10	4.537	4.522	4.556	VV	9131	87050	0.95%	0.039%
11	4.574	4.556	4.593	VV	7617	89066	0.98%	0.040%
12	4.609	4.593	4.655	VV	17904	179315	1.97%	0.080%
13	4.683	4.655	4.707	PV	6275	62699	0.69%	0.028%
14	4.710	4.707	4.732	VV	751	6561	0.07%	0.003%
15	4.766	4.732	4.773	PV	2111	19777	0.22%	0.009%
16	4.792	4.773	4.798	VV	34485	290990	3.19%	0.130%
17	4.805	4.798	4.825	VV	35697	317099	3.48%	0.141%
18	4.839	4.825	4.848	VV	5268	50035	0.55%	0.022%
19	4.866	4.848	4.892	VV	73150	677103	7.43%	0.302%
20	4.895	4.892	4.905	VV	2071	13668	0.15%	0.006%
21	4.919	4.905	4.947	VV	5174	49300	0.54%	0.022%
22	4.956	4.947	4.962	VV	412	1654	0.02%	0.001%
23	4.979	4.962	5.000	VV	890	9128	0.10%	0.004%
24	5.015	5.000	5.035	PV	3820	37239	0.41%	0.017%
25	5.056	5.035	5.069	VV	43515	407270	4.47%	0.181%
26	5.076	5.069	5.097	VV	13888	115087	1.26%	0.051%
27	5.115	5.097	5.124	VV	4566	40082	0.44%	0.018%
28	5.133	5.124	5.157	VV	4880	44585	0.49%	0.020%
29	5.181	5.157	5.197	VV	135376	1264520	13.87%	0.563%
30	5.213	5.197	5.244	VV	203972	1893558	20.76%	0.843%
31	5.252	5.244	5.277	VV	2458	24598	0.27%	0.011%
32	5.295	5.277	5.309	VV	1559	15349	0.17%	0.007%
33	5.318	5.309	5.332	VV	615	6861	0.08%	0.003%
34	5.363	5.332	5.381	VV	82560	777174	8.52%	0.346%
35	5.395	5.381	5.416	VV	31148	294385	3.23%	0.131%
36	5.455	5.416	5.469	VV	166282	1582383	17.35%	0.705%

Instrument :
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ClientSampleId :
WB-303-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

rteres

37	5.481	5.469	5.495	VV	72564	716283	7.85%	0.319%
38	5.508	5.495	5.530	VV	87335	806919	8	
39	5.549	5.530	5.568	VV	49770	464052	5	
40	5.585	5.568	5.590	VV	16592	144363	1	
41	5.600	5.590	5.614	VV	18563	187797	2	
42	5.634	5.614	5.654	VV	54656	653625	7	
43	5.671	5.654	5.679	VV	36802	351865	3.86%	0.157%
44	5.688	5.679	5.696	VV	34806	307627	3.37%	0.137%
45	5.716	5.696	5.738	VV	848000	7679406	84.21%	3.420%
46	5.755	5.738	5.797	VV	56927	686360	7.53%	0.306%
47	5.821	5.797	5.836	VV	9024	115337	1.26%	0.051%
48	5.854	5.836	5.861	VV	8225	92286	1.01%	0.041%
49	5.875	5.861	5.899	VV	11681	186685	2.05%	0.083%
50	5.913	5.899	5.927	VV	7816	89684	0.98%	0.040%
51	5.937	5.927	5.946	VV	4273	41695	0.46%	0.019%
52	5.978	5.946	6.020	VV	34167	578339	6.34%	0.258%
53	6.036	6.020	6.057	VV	4333	74019	0.81%	0.033%
54	6.076	6.057	6.102	VV	16636	201643	2.21%	0.090%
55	6.125	6.102	6.137	VV	2746	49757	0.55%	0.022%
56	6.160	6.137	6.208	VV	164015	1658543	18.19%	0.739%
57	6.245	6.208	6.257	VV	5023	98551	1.08%	0.044%
58	6.273	6.257	6.286	VV	7551	102429	1.12%	0.046%
59	6.307	6.286	6.328	VV	22727	304775	3.34%	0.136%
60	6.341	6.328	6.363	VV	5354	94817	1.04%	0.042%
61	6.378	6.363	6.392	VV	7309	92149	1.01%	0.041%
62	6.401	6.392	6.413	VV	3961	45383	0.50%	0.020%
63	6.429	6.413	6.451	VV	10930	153309	1.68%	0.068%
64	6.470	6.451	6.501	VV	13134	224648	2.46%	0.100%
65	6.507	6.501	6.522	VV	5450	54567	0.60%	0.024%
66	6.542	6.522	6.575	VV	9334	177663	1.95%	0.079%
67	6.596	6.575	6.608	VV	6347	102287	1.12%	0.046%
68	6.617	6.608	6.628	VV	5587	63994	0.70%	0.028%
69	6.657	6.628	6.661	VV	18123	202843	2.22%	0.090%
70	6.672	6.661	6.690	VV	23333	271200	2.97%	0.121%
71	6.715	6.690	6.735	VV	22903	358542	3.93%	0.160%
72	6.762	6.735	6.798	VV	777509	7492437	82.16%	3.337%
73	6.814	6.798	6.832	VV	23130	281520	3.09%	0.125%
74	6.856	6.832	6.873	VV	28452	355252	3.90%	0.158%
75	6.901	6.873	6.925	VV	13018	288702	3.17%	0.129%
76	6.947	6.925	6.966	VV	12197	220844	2.42%	0.098%
77	6.977	6.966	6.985	VV	6911	75740	0.83%	0.034%
78	7.011	6.985	7.026	VV	11729	219091	2.40%	0.098%
79	7.037	7.026	7.052	VV	8129	114257	1.25%	0.051%
80	7.077	7.052	7.100	VV	149774	1578326	17.31%	0.703%
81	7.126	7.100	7.145	VV	7032	163614	1.79%	0.073%
82	7.181	7.145	7.186	VV	8527	163736	1.80%	0.073%
83	7.199	7.186	7.220	VV	9822	176081	1.93%	0.078%
84	7.246	7.220	7.272	VV	17082	323741	3.55%	0.144%
85	7.288	7.272	7.314	VV	6912	121726	1.33%	0.054%
86	7.334	7.314	7.349	VV	9980	146512	1.61%	0.065%
87	7.375	7.349	7.421	VV	797215	7957209	87.26%	3.544%
88	7.434	7.421	7.468	VV	10380	191357	2.10%	0.085%
89	7.488	7.468	7.508	VV	10575	177880	1.95%	0.079%

Instrument :
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WB-303-BOTMS

rteres

90	7.529	7.508	7.543	VV	20066	267149	2.93%	0.119%
91	7.553	7.543	7.572	VV	15196	185733	2	
92	7.594	7.572	7.612	VV	18340	252196	2	
93	7.639	7.612	7.661	VV	25722	368416	4	
94	7.667	7.661	7.675	VV	5941	46739	0	
95	7.694	7.675	7.714	VV	18981	238485	2	
96	7.729	7.714	7.742	VV	5480	79172	0.87%	0.035%
97	7.763	7.742	7.784	VV	27653	331870	3.64%	0.148%
98	7.799	7.784	7.826	VV	6288	123886	1.36%	0.055%
99	7.847	7.826	7.865	VV	9513	140952	1.55%	0.063%
100	7.905	7.865	7.917	VV	6651	177880	1.95%	0.079%
101	7.943	7.917	7.975	VV	231426	2441094	26.77%	1.087%
102	7.990	7.975	8.002	VV	9849	124870	1.37%	0.056%
103	8.028	8.002	8.070	VV	757461	7621293	83.57%	3.394%
104	8.082	8.070	8.104	VV	10020	157044	1.72%	0.070%
105	8.136	8.104	8.158	VV	6972	164101	1.80%	0.073%
106	8.177	8.158	8.198	VV	4975	97996	1.07%	0.044%
107	8.226	8.198	8.273	VV	499900	5092189	55.84%	2.268%
108	8.288	8.273	8.297	VV	10737	123106	1.35%	0.055%
109	8.325	8.297	8.371	VV	784435	8087768	88.69%	3.602%
110	8.384	8.371	8.407	VV	11973	174758	1.92%	0.078%
111	8.427	8.407	8.452	VV	11874	190202	2.09%	0.085%
112	8.472	8.452	8.500	VV	30263	393616	4.32%	0.175%
113	8.524	8.500	8.575	VV	11248	215658	2.36%	0.096%
114	8.596	8.575	8.602	VV	3987	51867	0.57%	0.023%
115	8.614	8.602	8.634	VV	4919	79862	0.88%	0.036%
116	8.659	8.634	8.683	VV	57878	633924	6.95%	0.282%
117	8.694	8.683	8.707	VV	5525	71763	0.79%	0.032%
118	8.723	8.707	8.734	VV	5342	77171	0.85%	0.034%
119	8.757	8.734	8.815	VV	71682	877530	9.62%	0.391%
120	8.840	8.815	8.861	VV	5602	98076	1.08%	0.044%
121	8.875	8.861	8.880	VV	3001	28756	0.32%	0.013%
122	8.891	8.880	8.925	VV	3214	53719	0.59%	0.024%
123	8.943	8.925	8.959	VV	1887	28847	0.32%	0.013%
124	8.977	8.959	8.983	VV	2249	26544	0.29%	0.012%
125	8.987	8.983	9.007	VV	2233	25117	0.28%	0.011%
126	9.036	9.007	9.047	VV	2309	43357	0.48%	0.019%
127	9.057	9.047	9.073	VV	2242	29622	0.32%	0.013%
128	9.103	9.073	9.159	VV	794188	8127287	89.12%	3.619%
129	9.172	9.159	9.190	VV	4795	72257	0.79%	0.032%
130	9.212	9.190	9.236	VV	5333	95616	1.05%	0.043%
131	9.257	9.236	9.275	VV	6748	90453	0.99%	0.040%
132	9.312	9.275	9.337	VV	9181	146797	1.61%	0.065%
133	9.357	9.337	9.363	VV	2263	28417	0.31%	0.013%
134	9.383	9.363	9.438	VV	43283	533647	5.85%	0.238%
135	9.443	9.438	9.457	VV	2041	20795	0.23%	0.009%
136	9.479	9.457	9.503	VV	2665	56103	0.62%	0.025%
137	9.529	9.503	9.560	VV	134821	1428234	15.66%	0.636%
138	9.574	9.560	9.583	VV	1174	14067	0.15%	0.006%
139	9.600	9.583	9.647	VV	1860	48912	0.54%	0.022%
140	9.651	9.647	9.665	VV	815	6697	0.07%	0.003%
141	9.670	9.665	9.675	VV	539	2554	0.03%	0.001%

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142	9.694	9.675	9.714	VV	810	13311	0.15%	0.006%
143	9.740	9.714	9.768	PV	887	16596		
144	9.772	9.768	9.781	VV	500	2870		
145	9.801	9.781	9.822	VV	935	16463		
146	9.829	9.822	9.839	VV	703	6766		
147	9.849	9.839	9.855	VV	775	6716		
148	9.874	9.855	9.885	VV	1982	25599	0.28%	0.011%
149	9.917	9.885	9.947	VV	4174	91097	1.00%	0.041%
150	9.964	9.947	9.982	VV	1853	28761	0.32%	0.013%
151	9.987	9.982	9.990	VV	1137	5174	0.06%	0.002%
152	10.006	9.990	10.017	VV	1659	20947	0.23%	0.009%
153	10.031	10.017	10.046	VV	2058	26214	0.29%	0.012%
154	10.056	10.046	10.077	VV	1764	20554	0.23%	0.009%
155	10.111	10.077	10.120	VV	869	13741	0.15%	0.006%
156	10.144	10.120	10.177	VV	1358	32473	0.36%	0.014%
157	10.213	10.177	10.220	VV	1154	24605	0.27%	0.011%
158	10.236	10.220	10.243	VV	1466	18605	0.20%	0.008%
159	10.264	10.243	10.270	VV	7346	73225	0.80%	0.033%
160	10.282	10.270	10.320	VV	10831	208343	2.28%	0.093%
161	10.336	10.320	10.368	VV	3185	64989	0.71%	0.029%
162	10.390	10.368	10.419	VV	2506	44751	0.49%	0.020%
163	10.455	10.419	10.460	VV	5084	52817	0.58%	0.024%
164	10.490	10.460	10.533	VV	776625	8306630	91.09%	3.699%
165	10.566	10.533	10.622	VV	751373	8383351	91.93%	3.733%
166	10.644	10.622	10.673	VV	4216	114959	1.26%	0.051%
167	10.677	10.673	10.697	VV	3056	36949	0.41%	0.016%
168	10.716	10.697	10.726	VV	2461	39301	0.43%	0.018%
169	10.731	10.726	10.750	VV	2251	29119	0.32%	0.013%
170	10.767	10.750	10.795	VV	2722	59015	0.65%	0.026%
171	10.828	10.795	10.862	VV	2513	88157	0.97%	0.039%
172	10.871	10.862	10.880	VV	2332	24680	0.27%	0.011%
173	10.894	10.880	10.909	VV	2912	45295	0.50%	0.020%
174	10.914	10.909	10.933	VV	2356	33420	0.37%	0.015%
175	10.961	10.933	11.013	VV	109059	1290894	14.16%	0.575%
176	11.050	11.013	11.081	VV	3220	102307	1.12%	0.046%
177	11.108	11.081	11.135	VV	2627	74036	0.81%	0.033%
178	11.156	11.135	11.181	VV	2540	62719	0.69%	0.028%
179	11.189	11.181	11.194	VV	2331	16874	0.19%	0.008%
180	11.200	11.194	11.211	VV	2200	21497	0.24%	0.010%
181	11.260	11.211	11.303	VV	577711	6288375	68.96%	2.800%
182	11.318	11.303	11.335	VV	3291	59104	0.65%	0.026%
183	11.350	11.335	11.377	VV	3426	78073	0.86%	0.035%
184	11.382	11.377	11.385	VV	3079	13564	0.15%	0.006%
185	11.413	11.385	11.436	VV	4968	116808	1.28%	0.052%
186	11.440	11.436	11.457	VV	3393	40130	0.44%	0.018%
187	11.476	11.457	11.495	VV	3278	68157	0.75%	0.030%
188	11.505	11.495	11.515	VV	2831	32143	0.35%	0.014%
189	11.519	11.515	11.522	VV	2739	10728	0.12%	0.005%
190	11.543	11.522	11.572	VV	2985	83705	0.92%	0.037%
191	11.621	11.572	11.654	VV	4354	169498	1.86%	0.075%
192	11.679	11.654	11.701	VV	8131	140075	1.54%	0.062%
193	11.708	11.701	11.730	VV	3509	52212	0.57%	0.023%
194	11.749	11.730	11.767	VV	2859	58719	0.64%	0.026%

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195	11.787	11.767	11.796	VV	2848	47567	0.52%	0.021%
196	11.841	11.796	11.851	VV	3258	95774	1	
197	11.875	11.851	11.903	VV	18227	265672	2	
198	11.909	11.903	11.942	VV	4633	92719	1	
199	11.952	11.942	11.972	VV	3473	58629	0	
200	12.000	11.972	12.012	VV	3100	70430	0	
201	12.029	12.012	12.047	VV	3319	67125	0.74%	0.030%
202	12.051	12.047	12.058	VV	2996	19732	0.22%	0.009%
203	12.078	12.058	12.107	VV	5348	122943	1.35%	0.055%
204	12.130	12.107	12.153	VV	5484	115036	1.26%	0.051%
205	12.172	12.153	12.187	VV	3646	67180	0.74%	0.030%
206	12.224	12.187	12.237	VV	6924	136929	1.50%	0.061%
207	12.263	12.237	12.270	VV	109488	1114168	12.22%	0.496%
208	12.294	12.270	12.368	VV	762686	8805317	96.56%	3.921%
209	12.375	12.368	12.415	VV	4255	106333	1.17%	0.047%
210	12.426	12.415	12.432	VV	3645	37355	0.41%	0.017%
211	12.474	12.432	12.519	VV	10791	268285	2.94%	0.119%
212	12.540	12.519	12.549	VV	4485	77343	0.85%	0.034%
213	12.589	12.549	12.627	VV	786036	9119141	100.00%	4.061%
214	12.647	12.627	12.672	VV	11534	231532	2.54%	0.103%
215	12.700	12.672	12.731	VV	139742	1734118	19.02%	0.772%
216	12.762	12.731	12.790	VV	6159	202213	2.22%	0.090%
217	12.822	12.790	12.841	VV	5835	174616	1.91%	0.078%
218	12.869	12.841	12.900	VV	105784	1340634	14.70%	0.597%
219	12.923	12.900	12.962	VV	10685	291321	3.19%	0.130%
220	12.979	12.962	12.985	VV	6840	91739	1.01%	0.041%
221	12.994	12.985	13.000	VV	6918	61310	0.67%	0.027%
222	13.005	13.000	13.028	VV	7072	114864	1.26%	0.051%
223	13.038	13.028	13.045	VV	6750	65024	0.71%	0.029%
224	13.067	13.045	13.072	VV	7157	110735	1.21%	0.049%
225	13.099	13.072	13.125	VV	13311	300087	3.29%	0.134%
226	13.129	13.125	13.155	VV	8025	137553	1.51%	0.061%
227	13.162	13.155	13.170	VV	7609	67806	0.74%	0.030%
228	13.176	13.170	13.186	VV	7617	72680	0.80%	0.032%
229	13.193	13.186	13.212	VV	7368	112624	1.24%	0.050%
230	13.222	13.212	13.240	VV	7282	120224	1.32%	0.054%
231	13.252	13.240	13.257	VV	7368	75145	0.82%	0.033%
232	13.260	13.257	13.263	VV	7252	25182	0.28%	0.011%
233	13.281	13.263	13.298	VV	7942	160638	1.76%	0.072%
234	13.303	13.298	13.317	VV	7810	85115	0.93%	0.038%
235	13.332	13.317	13.362	VV	8445	216068	2.37%	0.096%
236	13.366	13.362	13.373	VV	7763	52385	0.57%	0.023%
237	13.375	13.373	13.380	VV	7690	30477	0.33%	0.014%
238	13.381	13.380	13.385	VV	7676	22380	0.25%	0.010%
239	13.404	13.385	13.423	VV	8541	184788	2.03%	0.082%
240	13.453	13.423	13.490	VV	105048	1442983	15.82%	0.643%
241	13.496	13.490	13.522	VV	7685	145053	1.59%	0.065%
242	13.544	13.522	13.563	VV	8431	192063	2.11%	0.086%
243	13.583	13.563	13.608	VV	7850	205030	2.25%	0.091%
244	13.634	13.608	13.660	VV	8043	233236	2.56%	0.104%
245	13.667	13.660	13.672	VV	7349	50639	0.56%	0.023%
246	13.688	13.672	13.715	VV	7564	193624	2.12%	0.086%

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247	13.719	13.715	13.733	VV	7320	76718	0.84%	0.034%
248	13.740	13.733	13.752	VV	7431	83690		
249	13.756	13.752	13.764	VV	7406	53480		
250	13.769	13.764	13.779	VV	7300	66144		
251	13.785	13.779	13.810	VV	7174	128341		
252	13.837	13.810	13.845	VV	7515	151471		
253	13.865	13.845	13.909	VV	10808	330392	3.62%	0.147%
254	13.925	13.909	13.950	VV	7797	182017	2.00%	0.081%
255	13.953	13.950	13.975	VV	6794	100674	1.10%	0.045%
256	13.984	13.975	13.996	VV	6661	81953	0.90%	0.036%
257	14.013	13.996	14.028	VV	7331	134149	1.47%	0.060%
258	14.044	14.028	14.052	VV	7032	95485	1.05%	0.043%
259	14.058	14.052	14.061	VV	6813	37707	0.41%	0.017%
260	14.071	14.061	14.091	VV	7104	120314	1.32%	0.054%
261	14.100	14.091	14.120	VV	6646	112769	1.24%	0.050%
262	14.139	14.120	14.145	VV	6421	95746	1.05%	0.043%
263	14.155	14.145	14.171	VV	6512	97884	1.07%	0.044%
264	14.179	14.171	14.188	VV	6347	62314	0.68%	0.028%
265	14.194	14.188	14.198	VV	6228	38698	0.42%	0.017%
266	14.204	14.198	14.208	VV	6423	37673	0.41%	0.017%
267	14.217	14.208	14.222	VV	6461	51023	0.56%	0.023%
268	14.231	14.222	14.258	VV	6522	133742	1.47%	0.060%
269	14.264	14.258	14.293	VV	6064	123843	1.36%	0.055%
270	14.301	14.293	14.323	VV	6274	111201	1.22%	0.050%
271	14.331	14.323	14.337	VV	5947	47360	0.52%	0.021%
272	14.343	14.337	14.355	VV	5972	64020	0.70%	0.029%
273	14.361	14.355	14.383	VV	5841	96470	1.06%	0.043%
274	14.401	14.383	14.406	VV	5936	78565	0.86%	0.035%
275	14.413	14.406	14.418	VV	5953	41809	0.46%	0.019%
276	14.458	14.418	14.476	VV	615757	8175171	89.65%	3.641%
277	14.502	14.476	14.526	VV	717591	8257203	90.55%	3.677%
278	14.550	14.526	14.628	VV	97218	1533843	16.82%	0.683%
279	14.645	14.628	14.676	VV	5780	159056	1.74%	0.071%
280	14.684	14.676	14.693	VV	5406	53261	0.58%	0.024%
281	14.702	14.693	14.710	VV	5094	51021	0.56%	0.023%
282	14.732	14.710	14.760	VV	5429	153130	1.68%	0.068%
283	14.765	14.760	14.785	VV	4986	73300	0.80%	0.033%
284	14.790	14.785	14.794	VV	4960	25249	0.28%	0.011%
285	14.798	14.794	14.834	VV	4962	116108	1.27%	0.052%
286	14.840	14.834	14.863	VV	5027	82212	0.90%	0.037%
287	14.882	14.863	14.899	VV	7078	127738	1.40%	0.057%
288	14.923	14.899	14.993	VV	24126	578524	6.34%	0.258%
289	14.998	14.993	15.025	VV	5170	94623	1.04%	0.042%
290	15.032	15.025	15.048	VV	4759	63704	0.70%	0.028%
291	15.072	15.048	15.104	VV	6466	178172	1.95%	0.079%
292	15.116	15.104	15.149	VV	4546	111129	1.22%	0.049%
293	15.158	15.149	15.170	VV	4043	50451	0.55%	0.022%
294	15.182	15.170	15.205	VV	4164	82509	0.90%	0.037%
295	15.208	15.205	15.228	VV	3774	50280	0.55%	0.022%
296	15.263	15.228	15.280	VV	4275	120470	1.32%	0.054%
297	15.285	15.280	15.289	VV	3849	19962	0.22%	0.009%
298	15.291	15.289	15.319	VV	3789	65844	0.72%	0.029%
299	15.330	15.319	15.347	VV	3757	58463	0.64%	0.026%

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300	15.363	15.347	15.369	VV	3953	48441	0.53%	0.022%
301	15.392	15.369	15.410	VV	4082	95073	1	
302	15.430	15.410	15.435	VV	4083	56892	0	
303	15.450	15.435	15.482	VV	4186	108288	1	
304	15.490	15.482	15.510	VV	3343	54283	0	
305	15.567	15.510	15.603	VV	88248	1240609	13	
306	15.608	15.603	15.648	VV	3789	86986	0.95%	0.039%
307	15.659	15.648	15.676	VV	2714	43474	0.48%	0.019%
308	15.690	15.676	15.702	VV	2634	38906	0.43%	0.017%
309	15.722	15.702	15.753	VV	3366	93717	1.03%	0.042%
310	15.769	15.753	15.775	VV	2898	35932	0.39%	0.016%
311	15.790	15.775	15.802	VV	2859	42434	0.47%	0.019%
312	15.818	15.802	15.827	VV	2780	38794	0.43%	0.017%
313	15.855	15.827	15.863	VV	2897	58996	0.65%	0.026%
314	15.876	15.863	15.891	VV	2936	45932	0.50%	0.020%
315	15.932	15.891	15.965	VV	4405	149804	1.64%	0.067%
316	16.005	15.965	16.020	VV	550171	7914472	86.79%	3.525%
317	16.041	16.020	16.100	VV	661204	8046326	88.24%	3.583%
318	16.120	16.100	16.152	VV	7118	142594	1.56%	0.064%
319	16.176	16.152	16.198	VV	4178	94702	1.04%	0.042%
320	16.207	16.198	16.235	VV	3061	61540	0.67%	0.027%
321	16.256	16.235	16.312	VV	4791	141002	1.55%	0.063%
322	16.327	16.312	16.335	VV	2544	32511	0.36%	0.014%
323	16.382	16.335	16.456	VV	585088	7711740	84.57%	3.434%
324	16.508	16.456	16.540	VV	81401	1197317	13.13%	0.533%
325	16.551	16.540	16.572	VV	3768	55874	0.61%	0.025%
326	16.579	16.572	16.632	VV	2046	59348	0.65%	0.026%
327	16.651	16.632	16.659	VV	1792	25999	0.29%	0.012%
328	16.669	16.659	16.695	VV	1751	35853	0.39%	0.016%
329	16.701	16.695	16.764	VV	1978	60241	0.66%	0.027%
330	16.797	16.764	16.848	VV	2040	79876	0.88%	0.036%
331	16.873	16.848	16.896	VV	2123	48991	0.54%	0.022%
332	16.902	16.896	16.910	VV	1433	10880	0.12%	0.005%
333	16.916	16.910	16.928	VV	1284	13119	0.14%	0.006%
334	16.955	16.928	16.982	VV	3348	65191	0.71%	0.029%
335	16.988	16.982	17.001	VV	1218	12365	0.14%	0.006%
336	17.029	17.001	17.050	VV	1199	30956	0.34%	0.014%
337	17.075	17.050	17.127	VV	1892	57832	0.63%	0.026%
338	17.131	17.127	17.149	VV	964	10401	0.11%	0.005%
339	17.182	17.149	17.188	VV	1109	21304	0.23%	0.009%
340	17.193	17.188	17.207	VV	1122	10633	0.12%	0.005%
341	17.209	17.207	17.214	VV	859	3540	0.04%	0.002%
342	17.218	17.214	17.227	VV	856	5633	0.06%	0.003%
343	17.283	17.227	17.305	VV	1527	51649	0.57%	0.023%
344	17.312	17.305	17.323	VV	1132	10323	0.11%	0.005%
345	17.393	17.323	17.428	VV	76977	1071898	11.75%	0.477%
346	17.435	17.428	17.446	VV	694	5687	0.06%	0.003%
347	17.482	17.446	17.522	VV	1739	45451	0.50%	0.020%
348	17.525	17.522	17.532	VV	890	4513	0.05%	0.002%
349	17.535	17.532	17.555	VV	712	7765	0.09%	0.003%
350	17.561	17.555	17.576	VV	512	3992	0.04%	0.002%
351	17.596	17.576	17.628	VV	650	9285	0.10%	0.004%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

8

Instrument :
FID_D
ClientSampleId :
WB-303-BOTMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

A B C D E F G H I J

rteres

352	17.650	17.628	17.657	PV	340	2339	0.03%	0.001%
353	17.686	17.657	17.703	VV	2053	30700	0	
354	17.749	17.703	17.762	VV	541836	8065689	88	
355	17.787	17.762	17.954	VV	571005	7745899	84	
356	18.001	17.954	18.087	VV	516263	7376166	80	
357	18.093	18.087	18.136	VV	815	13301	0	

Sum of corrected areas: 224554658

Aromatic EPH 093024.M Wed Oct 23 08:00:08 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067493.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 06:04
Operator : YP/AJ
Sample : P4460-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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...	12.937	3543503	31.305 ug/mlm
Spiked Amount	50.000		Recovery =	62.61%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	3154930	24.889 ug/ml
2) T	n-Decane (C10)	4.340	3977939	30.947 ug/ml
4) T	n-Dodecane (C12)	6.357	7279911	56.102 ug/ml
6) T	n-Tetradecane (C14)	8.153	10288528	79.882 ug/mlm
7) T	n-Hexadecane (C16)	9.749	6502212	48.845 ug/ml
8) T	n-Octadecane (C18)	11.187	5571827	41.090 ug/ml
10) T	n-Eicosane (C20)	12.495	5615180	43.005 ug/ml
11) T	n-Heneicosane (C21)	13.107	5383307	41.973 ug/mlm
13) T	n-Docosane (C22)	13.691	5482947	42.940 ug/ml
14) T	n-Tetracosane (C24)	14.793	5315369	41.561 ug/ml
15) T	n-Hexacosane (C26)	15.812	5316897	42.169 ug/ml
16) T	n-Octacosane (C28)	16.761	5232176	41.648 ug/ml
17) T	n-Tricontane (C30)	17.647	5250715	40.759 ug/ml
18) T	n-Dotriacontane (C32)	18.478	5215577	41.749 ug/ml
19) T	n-Tetratriacontane (C34)	19.261	5278547	48.304 ug/ml
20) T	n-Hexatriacontane (C36)	19.998	5246311	55.506 ug/ml
21) T	n-Octatriacontane (C38)	20.723	5369622	61.227 ug/ml
22) T	n-Tetracontane (C40)	21.610	5446080	63.291 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

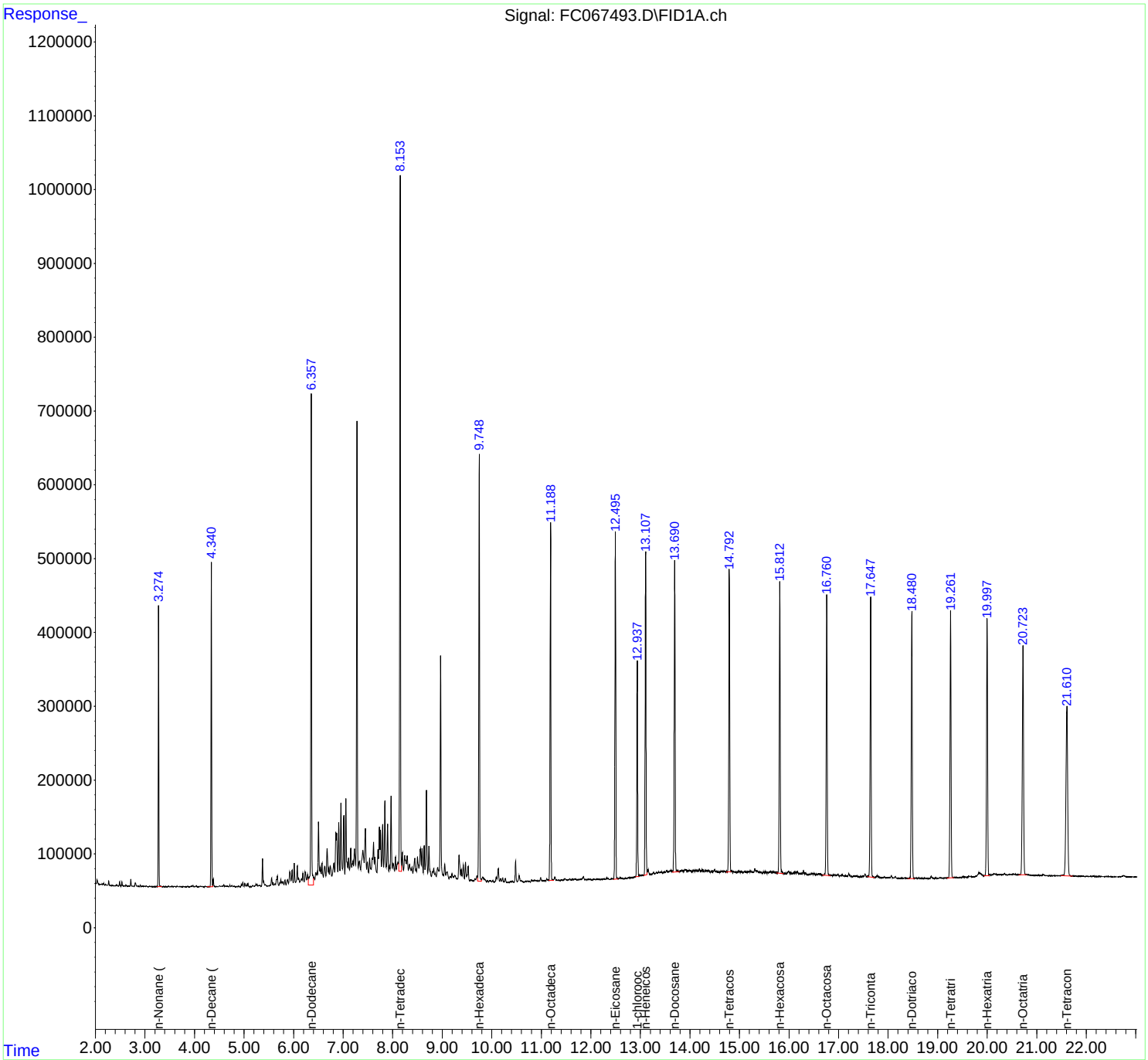
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102224AL\
Data File : FC067493.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 06:04
Operator : YP/AJ
Sample : P4460-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
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 :
WB-303-BOTMSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10222
Data File : FC067493.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 06:04
Sample : P4460-03MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.274	3.205	3.355	BV	378429	3159484	27.03%	1.445%
2	3.372	3.355	3.383	VV	293	2699	0.02%	0.001%
3	3.396	3.383	3.409	VV	333	3385	0.03%	0.002%
4	3.421	3.409	3.435	VV	240	2564	0.02%	0.001%
5	3.475	3.435	3.499	VV	458	8218	0.07%	0.004%
6	3.552	3.499	3.569	VV	574	12192	0.10%	0.006%
7	3.598	3.569	3.627	PV	495	9316	0.08%	0.004%
8	3.646	3.627	3.677	VV	753	9022	0.08%	0.004%
9	3.699	3.677	3.711	VV	262	3591	0.03%	0.002%
10	3.716	3.711	3.751	VV	293	3368	0.03%	0.002%
11	3.766	3.751	3.800	VV	342	5013	0.04%	0.002%
12	3.811	3.800	3.831	VV	228	2241	0.02%	0.001%
13	3.858	3.831	3.904	VV	592	13031	0.11%	0.006%
14	3.940	3.904	3.953	PV	1603	21244	0.18%	0.010%
15	3.969	3.953	3.987	VV	2364	22595	0.19%	0.010%
16	4.002	3.987	4.014	VV	540	5543	0.05%	0.003%
17	4.035	4.014	4.061	VV	1881	20054	0.17%	0.009%
18	4.117	4.061	4.132	VV	1310	20356	0.17%	0.009%
19	4.145	4.132	4.175	VV	780	11144	0.10%	0.005%
20	4.216	4.198	4.232	VV	1387	13264	0.11%	0.006%
21	4.253	4.232	4.272	VV	445	6389	0.05%	0.003%
22	4.292	4.272	4.310	VV	470	6117	0.05%	0.003%
23	4.340	4.310	4.365	VV	438271	3989568	34.13%	1.824%
24	4.380	4.365	4.431	VV	11057	117114	1.00%	0.054%
25	4.444	4.431	4.471	VV	522	9051	0.08%	0.004%
26	4.506	4.471	4.525	VV	1546	26377	0.23%	0.012%
27	4.537	4.525	4.549	VV	920	11479	0.10%	0.005%
28	4.563	4.549	4.576	VV	1598	17029	0.15%	0.008%
29	4.593	4.576	4.608	VV	3312	33000	0.28%	0.015%
30	4.620	4.608	4.632	VV	1365	13209	0.11%	0.006%
31	4.647	4.632	4.681	VV	1169	22458	0.19%	0.010%
32	4.713	4.681	4.731	VV	2151	29766	0.25%	0.014%
33	4.754	4.731	4.774	VV	2096	28403	0.24%	0.013%
34	4.789	4.774	4.799	VV	1209	12426	0.11%	0.006%
35	4.808	4.799	4.836	VV	1273	13602	0.12%	0.006%
36	4.862	4.836	4.876	VV	975	12045	0.10%	0.006%

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Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

A B C D E F G H I J

rteres

37	4.892	4.876	4.917	VV	1028	14407	0.12%	0.007%
38	4.947	4.917	4.959	PV	3476	35325	0	
39	4.975	4.959	5.000	VV	6179	78853	0	
40	5.017	5.000	5.039	VV	4730	59310	0	
41	5.054	5.039	5.064	VV	2990	29745	0	
42	5.078	5.064	5.117	VV	4859	55684	0	
43	5.132	5.117	5.152	PV	490	5992	0.05%	0.003%
44	5.175	5.152	5.199	VV	2101	29430	0.25%	0.013%
45	5.241	5.199	5.252	VV	3587	56235	0.48%	0.026%
46	5.263	5.252	5.280	VV	3675	37988	0.32%	0.017%
47	5.302	5.280	5.348	VV	1856	50313	0.43%	0.023%
48	5.374	5.348	5.420	VV	38087	470622	4.03%	0.215%
49	5.431	5.420	5.458	VV	2835	44612	0.38%	0.020%
50	5.469	5.458	5.479	VV	1037	11716	0.10%	0.005%
51	5.522	5.479	5.533	VV	1761	43594	0.37%	0.020%
52	5.557	5.533	5.576	VV	11704	159587	1.37%	0.073%
53	5.587	5.576	5.604	VV	5560	61233	0.52%	0.028%
54	5.622	5.604	5.634	VV	3676	51573	0.44%	0.024%
55	5.671	5.634	5.701	VV	14198	280701	2.40%	0.128%
56	5.742	5.701	5.755	VV	9596	167165	1.43%	0.076%
57	5.764	5.755	5.774	VV	6426	63527	0.54%	0.029%
58	5.786	5.774	5.805	VV	6674	95735	0.82%	0.044%
59	5.827	5.805	5.848	VV	8761	134160	1.15%	0.061%
60	5.877	5.848	5.898	VV	9149	180189	1.54%	0.082%
61	5.924	5.898	5.950	VV	19645	391207	3.35%	0.179%
62	5.971	5.950	5.993	VV	22276	329794	2.82%	0.151%
63	6.014	5.993	6.041	VV	31532	406018	3.47%	0.186%
64	6.075	6.041	6.095	VV	27881	426379	3.65%	0.195%
65	6.105	6.095	6.125	VV	10561	157785	1.35%	0.072%
66	6.161	6.125	6.172	VV	10438	226277	1.94%	0.103%
67	6.189	6.172	6.214	VV	17638	290286	2.48%	0.133%
68	6.236	6.214	6.263	VV	19453	376723	3.22%	0.172%
69	6.284	6.263	6.299	VV	15822	262538	2.25%	0.120%
70	6.357	6.299	6.428	VV	666284	7528207	64.40%	3.443%
71	6.449	6.428	6.464	VV	18187	316917	2.71%	0.145%
72	6.504	6.464	6.530	VV	86928	1398885	11.97%	0.640%
73	6.542	6.530	6.559	VV	25612	389589	3.33%	0.178%
74	6.575	6.559	6.602	VV	30946	515745	4.41%	0.236%
75	6.630	6.602	6.652	VV	26760	608650	5.21%	0.278%
76	6.677	6.652	6.701	VV	50235	925183	7.91%	0.423%
77	6.711	6.701	6.724	VV	23958	282780	2.42%	0.129%
78	6.742	6.724	6.773	VV	26914	600040	5.13%	0.274%
79	6.813	6.773	6.831	VV	30578	756205	6.47%	0.346%
80	6.855	6.831	6.892	VV	72628	1802780	15.42%	0.824%
81	6.913	6.892	6.936	VV	85653	1182064	10.11%	0.541%
82	6.957	6.936	6.988	VV	111191	1649385	14.11%	0.754%
83	7.014	6.988	7.035	VV	95420	1329776	11.38%	0.608%
84	7.057	7.035	7.094	VV	117877	1811098	15.49%	0.828%
85	7.111	7.094	7.130	VV	37318	643138	5.50%	0.294%
86	7.155	7.130	7.173	VV	51096	869604	7.44%	0.398%
87	7.200	7.173	7.212	VV	33671	692706	5.93%	0.317%
88	7.229	7.212	7.253	VV	49537	956444	8.18%	0.437%
89	7.281	7.253	7.306	VV	626749	7050578	60.32%	3.224%

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Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

rteres

90	7.327	7.306	7.354	VV	32981	796410	6.81%	0.364%
91	7.399	7.354	7.424	VV	47709	1542014	13	
92	7.450	7.424	7.476	VV	77938	1499855	12	
93	7.490	7.476	7.514	VV	32022	569208	4	
94	7.536	7.514	7.571	VV	37033	889831	7	
95	7.615	7.571	7.631	VV	58466	1362643	11	
96	7.642	7.631	7.680	VV	38469	810926	6.94%	0.371%
97	7.704	7.680	7.714	VV	48346	677065	5.79%	0.310%
98	7.732	7.714	7.745	VV	79034	1086464	9.29%	0.497%
99	7.756	7.745	7.775	VV	75007	935157	8.00%	0.428%
100	7.798	7.775	7.819	VV	82206	1269430	10.86%	0.581%
101	7.844	7.819	7.870	VV	114770	1734247	14.84%	0.793%
102	7.899	7.870	7.923	VV	82417	1353176	11.58%	0.619%
103	7.938	7.923	7.947	VV	26796	348593	2.98%	0.159%
104	7.969	7.947	7.993	VV	119792	1613799	13.81%	0.738%
105	8.012	7.993	8.038	VV	28700	672633	5.75%	0.308%
106	8.057	8.038	8.076	VV	37536	632970	5.41%	0.289%
107	8.153	8.076	8.180	VV	944616	11689439	100.00%	5.346%
108	8.196	8.180	8.219	VV	44017	759663	6.50%	0.347%
109	8.243	8.219	8.276	VV	39613	1066699	9.13%	0.488%
110	8.294	8.276	8.318	VV	39595	783128	6.70%	0.358%
111	8.341	8.318	8.372	VV	27854	758271	6.49%	0.347%
112	8.391	8.372	8.409	VV	24085	448662	3.84%	0.205%
113	8.447	8.409	8.484	VV	36195	1085518	9.29%	0.496%
114	8.503	8.484	8.531	VV	38222	792804	6.78%	0.363%
115	8.562	8.531	8.580	VV	48883	1062318	9.09%	0.486%
116	8.595	8.580	8.617	VV	48840	747562	6.40%	0.342%
117	8.636	8.617	8.655	VV	52239	754297	6.45%	0.345%
118	8.683	8.655	8.710	VV	127346	1885342	16.13%	0.862%
119	8.734	8.710	8.782	VV	52320	1067919	9.14%	0.488%
120	8.830	8.782	8.850	VV	21990	681340	5.83%	0.312%
121	8.862	8.850	8.881	VV	14605	242247	2.07%	0.111%
122	8.909	8.881	8.931	VV	22996	556516	4.76%	0.254%
123	8.969	8.931	9.018	VV	311085	4024712	34.43%	1.841%
124	9.052	9.018	9.074	VV	27369	594198	5.08%	0.272%
125	9.095	9.074	9.138	VV	16907	524736	4.49%	0.240%
126	9.160	9.138	9.179	VV	10765	237518	2.03%	0.109%
127	9.201	9.179	9.236	VV	13798	381062	3.26%	0.174%
128	9.251	9.236	9.310	VV	12022	427303	3.66%	0.195%
129	9.341	9.310	9.373	VV	39540	826149	7.07%	0.378%
130	9.385	9.373	9.402	VV	19942	277530	2.37%	0.127%
131	9.427	9.402	9.449	VV	25929	464320	3.97%	0.212%
132	9.472	9.449	9.492	VV	30101	451624	3.86%	0.207%
133	9.525	9.492	9.554	VV	24385	484606	4.15%	0.222%
134	9.579	9.554	9.638	VV	6160	250837	2.15%	0.115%
135	9.663	9.638	9.677	VV	7537	140642	1.20%	0.064%
136	9.702	9.677	9.716	VV	11196	210226	1.80%	0.096%
137	9.749	9.716	9.791	VV	581140	6676928	57.12%	3.053%
138	9.818	9.791	9.898	VV	9202	417478	3.57%	0.191%
139	9.918	9.898	9.936	VV	4748	91659	0.78%	0.042%
140	9.957	9.936	10.000	VV	4607	143923	1.23%	0.066%
141	10.020	10.000	10.045	VV	4141	91703	0.78%	0.042%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

8

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
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A B C D E F G H I J

rteres

142	10.092	10.045	10.105	VV	9361	184463	1.58%	0.084%
143	10.133	10.105	10.159	VV	20488	365898		
144	10.180	10.159	10.201	VV	7018	127065		
145	10.222	10.201	10.248	VV	7936	141091		
146	10.276	10.248	10.305	VV	7391	135127		
147	10.331	10.305	10.355	VV	2003	56096		
148	10.379	10.355	10.393	VV	2686	53545	0.46%	0.024%
149	10.413	10.393	10.441	VV	3479	79521	0.68%	0.036%
150	10.482	10.441	10.521	VV	30320	443274	3.79%	0.203%
151	10.554	10.521	10.588	VV	10747	240618	2.06%	0.110%
152	10.599	10.588	10.629	VV	3962	79195	0.68%	0.036%
153	10.644	10.629	10.659	VV	2358	40012	0.34%	0.018%
154	10.682	10.659	10.701	VV	3100	66411	0.57%	0.030%
155	10.720	10.701	10.745	VV	3190	76085	0.65%	0.035%
156	10.756	10.745	10.781	VV	3028	58853	0.50%	0.027%
157	10.805	10.781	10.837	VV	4574	117617	1.01%	0.054%
158	10.858	10.837	10.884	VV	4438	110396	0.94%	0.050%
159	10.895	10.884	10.918	VV	4004	70581	0.60%	0.032%
160	10.936	10.918	10.955	VV	3996	73405	0.63%	0.034%
161	10.988	10.955	11.048	VV	7934	240787	2.06%	0.110%
162	11.075	11.048	11.091	VV	3945	92379	0.79%	0.042%
163	11.114	11.091	11.142	VV	5980	139099	1.19%	0.064%
164	11.187	11.142	11.244	VV	488155	5808210	49.69%	2.656%
165	11.275	11.244	11.325	VV	8340	260036	2.22%	0.119%
166	11.342	11.325	11.367	VV	4315	96249	0.82%	0.044%
167	11.409	11.367	11.438	VV	4150	162964	1.39%	0.075%
168	11.482	11.438	11.525	VV	6144	249768	2.14%	0.114%
169	11.551	11.525	11.560	VV	4965	94524	0.81%	0.043%
170	11.579	11.560	11.605	VV	5300	127102	1.09%	0.058%
171	11.637	11.605	11.655	VV	4841	138214	1.18%	0.063%
172	11.674	11.655	11.692	VV	5659	110566	0.95%	0.051%
173	11.706	11.692	11.716	VV	4716	65820	0.56%	0.030%
174	11.739	11.716	11.770	VV	4483	144513	1.24%	0.066%
175	11.794	11.770	11.807	VV	5143	103801	0.89%	0.047%
176	11.851	11.807	11.878	VV	8549	259701	2.22%	0.119%
177	11.897	11.878	11.925	VV	4477	119689	1.02%	0.055%
178	11.980	11.925	12.024	VV	4729	257464	2.20%	0.118%
179	12.071	12.024	12.095	VV	4881	181209	1.55%	0.083%
180	12.127	12.095	12.174	VV	5015	214279	1.83%	0.098%
181	12.185	12.174	12.203	VV	4466	74977	0.64%	0.034%
182	12.265	12.203	12.291	VV	5188	238637	2.04%	0.109%
183	12.318	12.291	12.383	VV	6525	276451	2.36%	0.126%
184	12.427	12.383	12.455	VV	5574	205975	1.76%	0.094%
185	12.495	12.455	12.552	VV	473385	5880605	50.31%	2.689%
186	12.594	12.552	12.621	VV	6597	233683	2.00%	0.107%
187	12.640	12.621	12.660	VV	5684	121216	1.04%	0.055%
188	12.709	12.660	12.724	VV	5475	195815	1.68%	0.090%
189	12.749	12.724	12.792	VV	6197	229895	1.97%	0.105%
190	12.820	12.792	12.835	VV	6656	163210	1.40%	0.075%
191	12.860	12.835	12.871	VV	7101	142071	1.22%	0.065%
192	12.936	12.871	12.969	VV	302779	3977796	34.03%	1.819%
193	13.035	12.969	13.055	VV	9806	460964	3.94%	0.211%
194	13.106	13.055	13.136	VV	444060	5843638	49.99%	2.672%

8

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

A B C D E F G H I J

rteres

195	13.155	13.136	13.196	VV	16782	482868	4.13%	0.221%
196	13.206	13.196	13.228	VV	10587	194670	1	
197	13.263	13.228	13.285	VV	13116	397753	3	
198	13.326	13.285	13.348	VV	12622	449452	3	
199	13.369	13.348	13.391	VV	13620	330125	2	
200	13.411	13.391	13.447	VV	13282	430835	3	
201	13.458	13.447	13.465	VV	12603	134300	1.15%	0.061%
202	13.496	13.465	13.505	VV	13450	310552	2.66%	0.142%
203	13.532	13.505	13.554	VV	15293	412624	3.53%	0.189%
204	13.593	13.554	13.618	VV	14718	547701	4.69%	0.250%
205	13.631	13.618	13.652	VV	14804	294888	2.52%	0.135%
206	13.691	13.652	13.801	VV	435067	6672186	57.08%	3.051%
207	13.842	13.801	13.861	VV	15202	526573	4.50%	0.241%
208	13.904	13.861	13.965	VV	16411	934353	7.99%	0.427%
209	13.988	13.965	14.041	VV	15482	667592	5.71%	0.305%
210	14.071	14.041	14.111	VV	14842	608479	5.21%	0.278%
211	14.128	14.111	14.171	VV	15140	520415	4.45%	0.238%
212	14.191	14.171	14.223	VV	17121	465129	3.98%	0.213%
213	14.250	14.223	14.281	VV	16009	510168	4.36%	0.233%
214	14.307	14.281	14.327	VV	14758	394567	3.38%	0.180%
215	14.337	14.327	14.370	VV	14768	364946	3.12%	0.167%
216	14.382	14.370	14.411	VV	14212	333335	2.85%	0.152%
217	14.419	14.411	14.426	VV	13018	113151	0.97%	0.052%
218	14.450	14.426	14.468	VV	14076	336628	2.88%	0.154%
219	14.493	14.468	14.531	VV	15191	530139	4.54%	0.242%
220	14.540	14.531	14.568	VV	13424	280009	2.40%	0.128%
221	14.574	14.568	14.609	VV	12584	307484	2.63%	0.141%
222	14.657	14.609	14.690	VV	13326	629473	5.38%	0.288%
223	14.699	14.690	14.753	VV	13601	485421	4.15%	0.222%
224	14.793	14.753	14.833	VV	410030	5909091	50.55%	2.702%
225	14.844	14.833	14.951	VV	13893	874440	7.48%	0.400%
226	14.987	14.951	15.017	VV	13341	492243	4.21%	0.225%
227	15.026	15.017	15.030	VV	12700	99952	0.86%	0.046%
228	15.040	15.030	15.075	VV	12956	324743	2.78%	0.149%
229	15.092	15.075	15.106	VV	12487	227639	1.95%	0.104%
230	15.119	15.106	15.138	VV	12424	228183	1.95%	0.104%
231	15.171	15.138	15.185	VV	12580	343589	2.94%	0.157%
232	15.208	15.185	15.271	VV	12780	628344	5.38%	0.287%
233	15.309	15.271	15.344	VV	16300	586520	5.02%	0.268%
234	15.358	15.344	15.393	VV	13286	361756	3.09%	0.165%
235	15.400	15.393	15.428	VV	11668	244447	2.09%	0.112%
236	15.434	15.428	15.463	VV	11760	225822	1.93%	0.103%
237	15.496	15.463	15.515	VV	11821	351062	3.00%	0.161%
238	15.528	15.515	15.552	VV	11935	256085	2.19%	0.117%
239	15.562	15.552	15.581	VV	11429	189902	1.62%	0.087%
240	15.636	15.581	15.651	VV	11957	476040	4.07%	0.218%
241	15.665	15.651	15.695	VV	11861	298553	2.55%	0.137%
242	15.699	15.695	15.751	VV	11762	368458	3.15%	0.168%
243	15.812	15.751	15.895	VV	402200	6155486	52.66%	2.815%
244	15.906	15.895	15.947	VV	9660	293036	2.51%	0.134%
245	15.991	15.947	16.041	VV	12272	589916	5.05%	0.270%
246	16.046	16.041	16.072	VV	9738	175213	1.50%	0.080%

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Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

A B C D E F G H I J

rteres

247	16.127	16.072	16.148	VV	10796	452772	3.87%	0.207%
248	16.168	16.148	16.211	VV	11699	381819	3	
249	16.289	16.211	16.315	VV	12920	592181	5	
250	16.333	16.315	16.394	VV	9548	391540	3	
251	16.462	16.394	16.485	VV	8873	449288	3	
252	16.496	16.485	16.578	VV	8648	437040	3	
253	16.604	16.578	16.665	VV	8253	407556	3.49%	0.186%
254	16.683	16.665	16.705	VV	6992	160798	1.38%	0.074%
255	16.761	16.705	16.841	VV	385344	5722176	48.95%	2.617%
256	16.862	16.841	16.881	VV	6328	142828	1.22%	0.065%
257	16.908	16.881	16.961	VV	6856	301964	2.58%	0.138%
258	16.986	16.961	17.021	VV	6867	220458	1.89%	0.101%
259	17.072	17.021	17.122	VV	6413	332795	2.85%	0.152%
260	17.140	17.122	17.155	VV	5461	102124	0.87%	0.047%
261	17.166	17.155	17.180	VV	5020	74121	0.63%	0.034%
262	17.207	17.180	17.255	VV	8002	258363	2.21%	0.118%
263	17.272	17.255	17.285	VV	4273	75732	0.65%	0.035%
264	17.317	17.285	17.424	VV	5114	365933	3.13%	0.167%
265	17.441	17.424	17.461	VV	4033	80939	0.69%	0.037%
266	17.487	17.461	17.508	VV	4496	115086	0.98%	0.053%
267	17.534	17.508	17.568	VV	7335	190681	1.63%	0.087%
268	17.576	17.568	17.581	VV	4006	31717	0.27%	0.015%
269	17.647	17.581	17.732	VV	380568	5527223	47.28%	2.528%
270	17.780	17.732	17.875	VV	4696	257436	2.20%	0.118%
271	17.915	17.875	17.925	VV	2614	66087	0.57%	0.030%
272	17.934	17.925	17.957	VV	2459	44092	0.38%	0.020%
273	17.978	17.957	17.992	VV	2274	43462	0.37%	0.020%
274	18.005	17.992	18.041	VV	1999	58644	0.50%	0.027%
275	18.066	18.041	18.124	VV	4122	119241	1.02%	0.055%
276	18.144	18.124	18.242	VV	3426	105240	0.90%	0.048%
277	18.339	18.242	18.348	VV	1499	64151	0.55%	0.029%
278	18.356	18.348	18.426	VV	1330	37392	0.32%	0.017%
279	18.478	18.426	18.535	VV	362190	5245884	44.88%	2.399%
280	18.562	18.535	18.588	VV	1231	24979	0.21%	0.011%
281	18.616	18.588	18.648	VV	926	23633	0.20%	0.011%
282	18.655	18.648	18.715	VV	705	16287	0.14%	0.007%
283	18.729	18.715	18.737	VV	600	6165	0.05%	0.003%
284	18.757	18.737	18.771	VV	691	9683	0.08%	0.004%
285	18.775	18.771	18.807	VV	415	4987	0.04%	0.002%
286	18.817	18.807	18.832	PV	326	3184	0.03%	0.001%
287	18.872	18.832	18.938	VV	3381	68165	0.58%	0.031%
288	18.946	18.938	18.955	VV	380	3132	0.03%	0.001%
289	18.964	18.955	18.996	VV	708	12046	0.10%	0.006%
290	19.041	18.996	19.088	VV	987	30619	0.26%	0.014%
291	19.114	19.088	19.174	VV	605	20302	0.17%	0.009%
292	19.261	19.174	19.341	VV	363672	5340669	45.69%	2.442%
293	19.345	19.341	19.355	VV	980	6537	0.06%	0.003%
294	19.370	19.355	19.435	VV	1091	35716	0.31%	0.016%
295	19.458	19.435	19.471	VV	953	17821	0.15%	0.008%
296	19.558	19.471	19.590	VV	1460	83400	0.71%	0.038%
297	19.631	19.590	19.652	VV	2652	64525	0.55%	0.030%
298	19.671	19.652	19.710	VV	2045	54820	0.47%	0.025%
299	19.835	19.710	19.844	VV	6309	242090	2.07%	0.111%

Instrument :
FID_C
ClientSampleId :
WB-303-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

rteres

300	19.854	19.844	19.944	VV	6881	258656	2.21%	0.118%
301	19.998	19.944	20.042	VV	352738	5399101	46	
302	20.052	20.042	20.075	VV	3934	72735	0	
303	20.141	20.075	20.231	VV	5076	381315	3	
304	20.272	20.231	20.295	VV	3875	140967	1	
305	20.348	20.295	20.408	VV	5010	259905	2	
306	20.465	20.408	20.501	VV	4068	210020	1.80%	0.096%
307	20.517	20.501	20.542	VV	4198	98656	0.84%	0.045%
308	20.551	20.542	20.608	VV	4098	146264	1.25%	0.067%
309	20.618	20.608	20.641	VV	3294	63856	0.55%	0.029%
310	20.723	20.641	20.951	VV	314370	5906520	50.53%	2.701%
311	20.999	20.951	21.013	VV	2216	75546	0.65%	0.035%
312	21.040	21.013	21.055	VV	2234	50757	0.43%	0.023%
313	21.085	21.055	21.097	VV	2040	49721	0.43%	0.023%
314	21.132	21.097	21.223	VV	2662	139208	1.19%	0.064%
315	21.234	21.223	21.245	VV	1314	16606	0.14%	0.008%
316	21.254	21.245	21.295	VV	1367	35885	0.31%	0.016%
317	21.335	21.295	21.351	VV	1301	39247	0.34%	0.018%
318	21.362	21.351	21.381	VV	1129	18946	0.16%	0.009%
319	21.408	21.381	21.457	VV	1153	43938	0.38%	0.020%
320	21.610	21.457	21.724	VV	232069	5548714	47.47%	2.537%
321	21.751	21.724	21.783	VV	387	8603	0.07%	0.004%

Sum of corrected areas: 218671718

Aliphatic EPH 100224.M Wed Oct 23 07:56:27 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048556.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 06:04
Operator : YP/AJ
Sample : P4460-03MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-303-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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...	7.375	7899041	47.709 ug/ml
	Spiked Amount 50.000		Recovery =	95.42%
6)	S 2-Flurobiphenyl (SURR)	8.225	5015716	48.365 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	96.73%
11)	S ortho-Terphenyl (SURR)	11.260	6082274	33.056 ug/ml
	Spiked Amount 50.000		Recovery =	66.11%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.198	6374636	36.373 ug/ml
2)	T Naphthalene (C11.7)	5.715	7633567	40.884 ug/mlm
3)	T 2-Methylnaphthalene (...	6.762	7443549	39.386 ug/ml
5)	T Acenaphthylene (C15.06)	8.028	7547141	39.340 ug/ml
7)	T Acenaphthene (C15.5)	8.324	8110504	42.877 ug/ml
8)	T Flouorene (C16.55)	9.102	8010751	44.338 ug/ml
9)	T Phenanthrene (C19.36)	10.489	8213285	46.342 ug/ml
10)	T Anthracene (C19.43)	10.565	8331375	46.821 ug/ml
12)	T Fluoranthene (C21.85)	12.295	8519629	47.103 ug/mlm
13)	T Pyrene (C20.8)	12.588	8815200	49.228 ug/ml
14)	T Benzo[a]anthracene (C...	14.458	7881258	49.315 ug/ml
15)	T Chrysene (C27.41)	14.501	7985711	42.813 ug/ml
16)	T benzo[b]fluoranthene ...	16.005	7687518	46.160 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.040	7711796	45.431 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.381	7442521	45.536 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.749	8029953	61.046 ug/ml
20)	T Dibenz[a,h]anthracene...	17.786	7568699	45.231 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.000	7295893	44.919 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

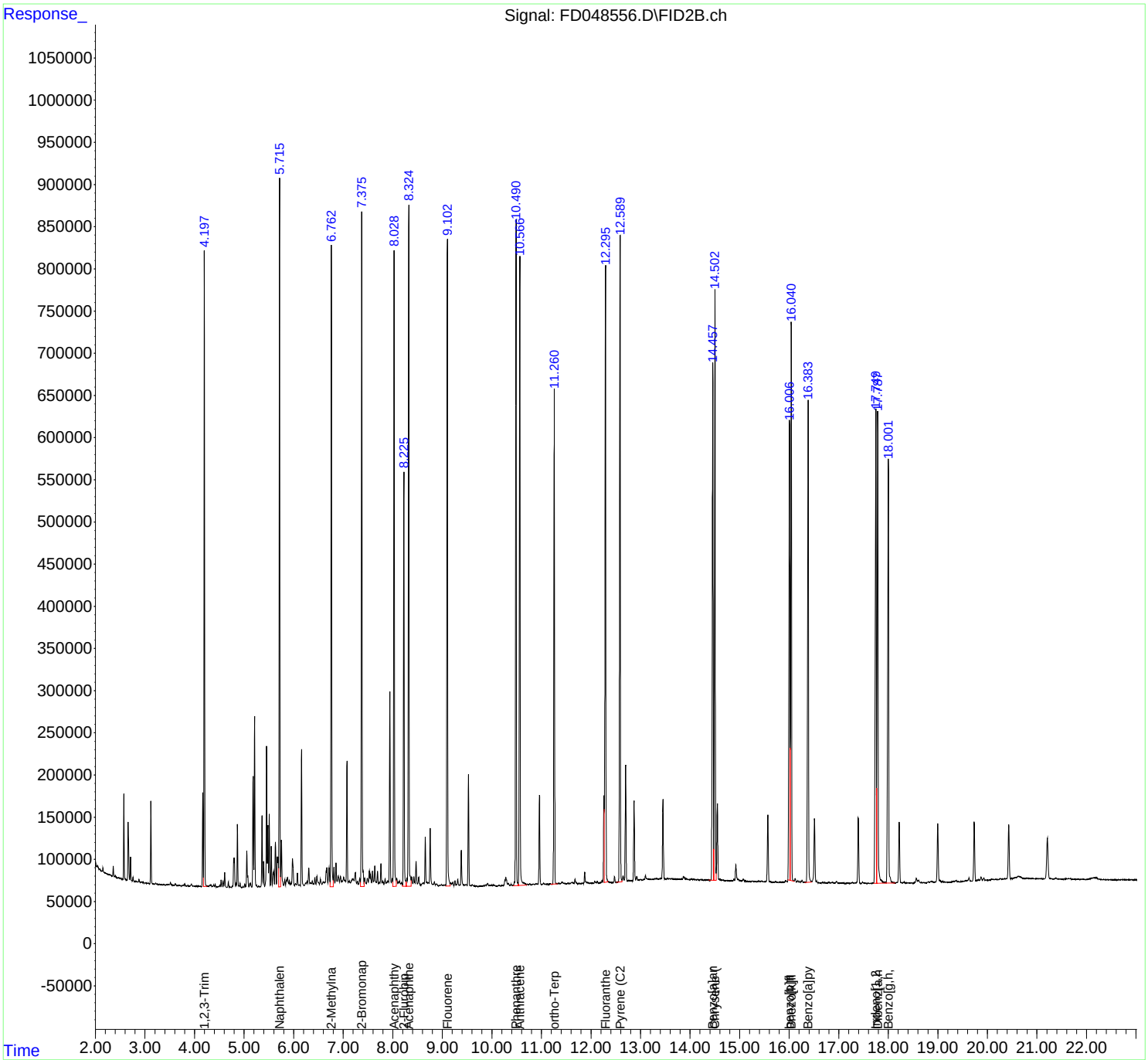
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102224AR\
Data File : FD048556.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 06:04
Operator : YP/AJ
Sample : P4460-03MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-303-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Integration File: autoint1.e
Quant Time: Oct 23 07:10:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.M
Quant Title : GC Extractables
QLast Update : Mon Sep 30 14:17:34 2024
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 :
WB-303-BOTMSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD10222
Data File : FD048556.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 06:04
Sample : P4460-03MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 093024.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	4.166	4.152	4.180	PV	103910	826790	9.18%	0.372%
2	4.198	4.180	4.262	PV	744828	6113084	67.89%	2.749%
3	4.277	4.262	4.291	PV	468	3786	0.04%	0.002%
4	4.306	4.291	4.318	PV	1874	18111	0.20%	0.008%
5	4.332	4.318	4.352	VV	2379	26111	0.29%	0.012%
6	4.387	4.352	4.402	VV	2268	26059	0.29%	0.012%
7	4.417	4.402	4.452	VV	3245	30486	0.34%	0.014%
8	4.456	4.452	4.473	PV	265	1203	0.01%	0.001%
9	4.487	4.473	4.497	VV	707	5003	0.06%	0.002%
10	4.511	4.497	4.522	VV	2468	20892	0.23%	0.009%
11	4.537	4.522	4.556	VV	8518	79298	0.88%	0.036%
12	4.574	4.556	4.593	VV	7316	87620	0.97%	0.039%
13	4.609	4.593	4.651	VV	17559	176950	1.97%	0.080%
14	4.659	4.651	4.665	PV	179	1133	0.01%	0.001%
15	4.683	4.665	4.702	VV	6348	61856	0.69%	0.028%
16	4.711	4.702	4.740	VV	1022	9692	0.11%	0.004%
17	4.767	4.740	4.774	PV	2067	19732	0.22%	0.009%
18	4.791	4.774	4.798	VV	34652	291255	3.23%	0.131%
19	4.805	4.798	4.826	VV	35494	313911	3.49%	0.141%
20	4.840	4.826	4.848	VV	5246	50866	0.56%	0.023%
21	4.866	4.848	4.892	VV	74848	675620	7.50%	0.304%
22	4.896	4.892	4.905	VV	2059	13789	0.15%	0.006%
23	4.920	4.905	4.956	VV	5295	51899	0.58%	0.023%
24	4.979	4.956	4.998	VV	912	10059	0.11%	0.005%
25	5.014	4.998	5.032	VV	3904	39576	0.44%	0.018%
26	5.056	5.032	5.070	VV	43191	412690	4.58%	0.186%
27	5.075	5.070	5.098	VV	14091	116674	1.30%	0.052%
28	5.115	5.098	5.123	VV	4649	41542	0.46%	0.019%
29	5.133	5.123	5.158	VV	4843	46656	0.52%	0.021%
30	5.181	5.158	5.197	VV	131123	1259331	13.98%	0.566%
31	5.212	5.197	5.243	VV	202487	1888179	20.97%	0.849%
32	5.252	5.243	5.279	VV	2754	30054	0.33%	0.014%
33	5.295	5.279	5.311	VV	1861	21829	0.24%	0.010%
34	5.321	5.311	5.332	VV	836	8429	0.09%	0.004%
35	5.362	5.332	5.381	VV	84892	780841	8.67%	0.351%
36	5.395	5.381	5.416	VV	31019	295501	3.28%	0.133%

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37	5.455	5.416	5.469	VV	166881	1582381	17.57%	0.712%
38	5.481	5.469	5.495	VV	73498	716321		
39	5.508	5.495	5.530	VV	86755	806350		
40	5.549	5.530	5.569	VV	48731	467317		
41	5.585	5.569	5.591	VV	16595	148603		
42	5.599	5.591	5.614	VV	19117	188894		
43	5.633	5.614	5.654	VV	53753	657403	7.30%	0.296%
44	5.671	5.654	5.679	VV	36433	346242	3.84%	0.156%
45	5.688	5.679	5.696	VV	35407	319629	3.55%	0.144%
46	5.716	5.696	5.738	VV	840032	7647609	84.93%	3.439%
47	5.755	5.738	5.796	VV	55853	686758	7.63%	0.309%
48	5.822	5.796	5.837	VV	9013	121528	1.35%	0.055%
49	5.853	5.837	5.861	VV	8496	93815	1.04%	0.042%
50	5.875	5.861	5.900	VV	11854	194448	2.16%	0.087%
51	5.914	5.900	5.927	VV	7993	87774	0.97%	0.039%
52	5.937	5.927	5.947	VV	4754	47951	0.53%	0.022%
53	5.978	5.947	6.020	VV	34120	585499	6.50%	0.263%
54	6.036	6.020	6.055	VV	4271	71823	0.80%	0.032%
55	6.077	6.055	6.101	VV	16894	206857	2.30%	0.093%
56	6.122	6.101	6.136	VV	2940	51234	0.57%	0.023%
57	6.160	6.136	6.208	VV	163242	1661570	18.45%	0.747%
58	6.245	6.208	6.256	VV	5202	101948	1.13%	0.046%
59	6.273	6.256	6.285	VV	7657	104287	1.16%	0.047%
60	6.307	6.285	6.328	VV	22854	313895	3.49%	0.141%
61	6.340	6.328	6.362	VV	5535	94571	1.05%	0.043%
62	6.377	6.362	6.392	VV	7605	100794	1.12%	0.045%
63	6.401	6.392	6.413	VV	4275	47188	0.52%	0.021%
64	6.429	6.413	6.450	VV	11427	157755	1.75%	0.071%
65	6.470	6.450	6.520	VV	12935	286148	3.18%	0.129%
66	6.541	6.520	6.572	VV	9473	180020	2.00%	0.081%
67	6.597	6.572	6.609	VV	6583	112849	1.25%	0.051%
68	6.617	6.609	6.627	VV	5735	60035	0.67%	0.027%
69	6.671	6.627	6.690	VV	23369	482066	5.35%	0.217%
70	6.715	6.690	6.735	VV	23153	365249	4.06%	0.164%
71	6.762	6.735	6.798	VV	761531	7459370	82.84%	3.354%
72	6.814	6.798	6.832	VV	23908	283086	3.14%	0.127%
73	6.856	6.832	6.874	VV	28843	363269	4.03%	0.163%
74	6.899	6.874	6.925	VV	13194	295324	3.28%	0.133%
75	6.948	6.925	6.965	VV	12541	226550	2.52%	0.102%
76	6.975	6.965	6.984	VV	7348	77435	0.86%	0.035%
77	7.011	6.984	7.026	VV	11922	230277	2.56%	0.104%
78	7.035	7.026	7.052	VV	8299	112312	1.25%	0.051%
79	7.077	7.052	7.100	VV	149365	1580030	17.55%	0.710%
80	7.125	7.100	7.148	VV	7070	175920	1.95%	0.079%
81	7.180	7.148	7.185	VV	8616	156013	1.73%	0.070%
82	7.198	7.185	7.221	VV	10076	190512	2.12%	0.086%
83	7.246	7.221	7.274	VV	17085	325622	3.62%	0.146%
84	7.288	7.274	7.306	VV	6954	101713	1.13%	0.046%
85	7.334	7.306	7.349	VV	10171	165216	1.83%	0.074%
86	7.375	7.349	7.398	VV	799769	7730095	85.84%	3.476%
87	7.403	7.398	7.421	VV	18623	184209	2.05%	0.083%
88	7.434	7.421	7.467	VV	10429	195288	2.17%	0.088%
89	7.489	7.467	7.509	VV	10582	184392	2.05%	0.083%

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90	7.528	7.509	7.542	VV	19302	262062	2.91%	0.118%
91	7.553	7.542	7.573	VV	15062	193175	2	
92	7.594	7.573	7.611	VV	18924	249786	2	
93	7.639	7.611	7.677	VV	25130	429717	4	
94	7.694	7.677	7.714	VV	18599	233714	2	
95	7.731	7.714	7.742	VV	5659	78993	0	
96	7.763	7.742	7.784	VV	27661	339750	3.77%	0.153%
97	7.800	7.784	7.826	VV	6548	126726	1.41%	0.057%
98	7.846	7.826	7.865	VV	9643	148207	1.65%	0.067%
99	7.905	7.865	7.916	VV	6589	174639	1.94%	0.079%
100	7.943	7.916	7.971	VV	231346	2422331	26.90%	1.089%
101	7.990	7.971	8.002	VV	10098	139400	1.55%	0.063%
102	8.028	8.002	8.069	VV	754411	7567120	84.03%	3.403%
103	8.082	8.069	8.104	VV	10172	162687	1.81%	0.073%
104	8.118	8.104	8.122	VV	5194	51440	0.57%	0.023%
105	8.136	8.122	8.160	VV	7129	123468	1.37%	0.056%
106	8.177	8.160	8.197	VV	4974	89438	0.99%	0.040%
107	8.226	8.197	8.274	VV	492178	5056253	56.15%	2.274%
108	8.287	8.274	8.297	VV	10878	121783	1.35%	0.055%
109	8.324	8.297	8.371	VV	808181	8023223	89.10%	3.608%
110	8.384	8.371	8.406	VV	11840	172953	1.92%	0.078%
111	8.427	8.406	8.450	VV	11924	191670	2.13%	0.086%
112	8.472	8.450	8.499	VV	30118	399678	4.44%	0.180%
113	8.524	8.499	8.570	VV	11470	215553	2.39%	0.097%
114	8.595	8.570	8.601	VV	3976	58677	0.65%	0.026%
115	8.615	8.601	8.632	VV	5087	78619	0.87%	0.035%
116	8.658	8.632	8.682	VV	58850	639146	7.10%	0.287%
117	8.693	8.682	8.708	VV	5790	78001	0.87%	0.035%
118	8.722	8.708	8.734	VV	5075	72518	0.81%	0.033%
119	8.757	8.734	8.795	VV	69527	843318	9.36%	0.379%
120	8.800	8.795	8.820	VV	3215	42774	0.48%	0.019%
121	8.841	8.820	8.860	VV	5986	96134	1.07%	0.043%
122	8.875	8.860	8.880	VV	3260	32523	0.36%	0.015%
123	8.884	8.880	8.887	VV	3306	14912	0.17%	0.007%
124	8.892	8.887	8.923	VV	3331	41415	0.46%	0.019%
125	8.944	8.923	8.957	VV	1871	30546	0.34%	0.014%
126	8.980	8.957	9.005	VV	2369	56123	0.62%	0.025%
127	9.033	9.005	9.047	VV	2404	47007	0.52%	0.021%
128	9.057	9.047	9.072	VV	2185	26827	0.30%	0.012%
129	9.102	9.072	9.159	VV	766605	8055691	89.46%	3.622%
130	9.173	9.159	9.192	VV	4952	76185	0.85%	0.034%
131	9.213	9.192	9.236	VV	5386	93987	1.04%	0.042%
132	9.257	9.236	9.279	VV	6804	95394	1.06%	0.043%
133	9.287	9.279	9.295	VV	2691	24198	0.27%	0.011%
134	9.313	9.295	9.341	VV	9103	123331	1.37%	0.055%
135	9.358	9.341	9.364	VV	2473	28174	0.31%	0.013%
136	9.384	9.364	9.437	VV	43353	526681	5.85%	0.237%
137	9.447	9.437	9.460	VV	2060	25417	0.28%	0.011%
138	9.480	9.460	9.503	VV	2929	56241	0.62%	0.025%
139	9.529	9.503	9.562	VV	132689	1423030	15.80%	0.640%
140	9.573	9.562	9.583	VV	1272	14147	0.16%	0.006%
141	9.604	9.583	9.668	VV	2093	60993	0.68%	0.027%

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142	9.692	9.668	9.717	VV	937	14357	0.16%	0.006%
143	9.743	9.717	9.779	PV	748	18042	0	
144	9.781	9.779	9.783	VV	556	1433	0	
145	9.798	9.783	9.820	VV	981	16442	0	
146	9.843	9.820	9.847	VV	1027	12682	0	
147	9.852	9.847	9.857	VV	945	5208	0	
148	9.873	9.857	9.884	VV	2035	24711	0.27%	0.011%
149	9.918	9.884	9.938	VV	4040	83817	0.93%	0.038%
150	9.965	9.938	9.982	VV	1589	32880	0.37%	0.015%
151	9.986	9.982	9.990	VV	1051	4929	0.05%	0.002%
152	10.005	9.990	10.018	VV	1627	22559	0.25%	0.010%
153	10.030	10.018	10.045	VV	1891	24898	0.28%	0.011%
154	10.056	10.045	10.084	VV	1830	24233	0.27%	0.011%
155	10.145	10.084	10.178	VV	1263	44987	0.50%	0.020%
156	10.192	10.178	10.199	VV	976	10758	0.12%	0.005%
157	10.216	10.199	10.221	VV	1123	14032	0.16%	0.006%
158	10.264	10.221	10.270	VV	7602	92397	1.03%	0.042%
159	10.282	10.270	10.323	VV	10618	210872	2.34%	0.095%
160	10.337	10.323	10.364	VV	3198	57013	0.63%	0.026%
161	10.389	10.364	10.422	VV	2395	52115	0.58%	0.023%
162	10.455	10.422	10.460	VV	5203	53744	0.60%	0.024%
163	10.490	10.460	10.533	VV	792666	8215084	91.23%	3.694%
164	10.566	10.533	10.632	VV	745278	8315823	92.35%	3.739%
165	10.639	10.632	10.669	VV	4324	82369	0.91%	0.037%
166	10.679	10.669	10.702	VV	3133	53915	0.60%	0.024%
167	10.716	10.702	10.745	VV	2587	56435	0.63%	0.025%
168	10.765	10.745	10.802	VV	2766	72546	0.81%	0.033%
169	10.829	10.802	10.859	VV	2615	75388	0.84%	0.034%
170	10.867	10.859	10.876	VV	2466	23211	0.26%	0.010%
171	10.894	10.876	10.912	VV	2711	52783	0.59%	0.024%
172	10.961	10.912	11.010	VV	107725	1304328	14.48%	0.587%
173	11.014	11.010	11.017	VV	2201	8954	0.10%	0.004%
174	11.051	11.017	11.085	VV	3334	103782	1.15%	0.047%
175	11.112	11.085	11.143	VV	2576	76407	0.85%	0.034%
176	11.152	11.143	11.176	VV	2385	44074	0.49%	0.020%
177	11.180	11.176	11.188	VV	2270	15973	0.18%	0.007%
178	11.193	11.188	11.215	VV	2237	34332	0.38%	0.015%
179	11.260	11.215	11.306	VV	589122	6216661	69.04%	2.795%
180	11.312	11.306	11.333	VV	2977	46432	0.52%	0.021%
181	11.343	11.333	11.352	VV	3209	33959	0.38%	0.015%
182	11.355	11.352	11.380	VV	3266	48650	0.54%	0.022%
183	11.414	11.380	11.458	VV	4802	166498	1.85%	0.075%
184	11.473	11.458	11.505	VV	3437	81981	0.91%	0.037%
185	11.540	11.505	11.561	VV	3090	94373	1.05%	0.042%
186	11.565	11.561	11.574	VV	2992	20020	0.22%	0.009%
187	11.614	11.574	11.657	VV	4322	169986	1.89%	0.076%
188	11.680	11.657	11.703	VV	7998	139829	1.55%	0.063%
189	11.709	11.703	11.730	VV	3562	51308	0.57%	0.023%
190	11.750	11.730	11.758	VV	3045	45025	0.50%	0.020%
191	11.762	11.758	11.777	VV	2911	31385	0.35%	0.014%
192	11.782	11.777	11.797	VV	2806	32662	0.36%	0.015%
193	11.810	11.797	11.822	VV	2848	41228	0.46%	0.019%
194	11.842	11.822	11.855	VV	3397	63326	0.70%	0.028%

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195	11.875	11.855	11.900	VV	16021	228648	2.54%	0.103%
196	11.907	11.900	11.943	VV	4500	99681	1	
197	11.958	11.943	11.975	VV	3401	59217	0	
198	11.986	11.975	12.016	VV	3043	71750	0	
199	12.033	12.016	12.037	VV	3047	35971	0	
200	12.042	12.037	12.055	VV	3106	32298	0	
201	12.078	12.055	12.114	VV	5153	136976	1.52%	0.062%
202	12.130	12.114	12.151	VV	5387	92106	1.02%	0.041%
203	12.172	12.151	12.187	VV	3523	70738	0.79%	0.032%
204	12.224	12.187	12.237	VV	6704	136612	1.52%	0.061%
205	12.264	12.237	12.270	VV	106650	1075699	11.95%	0.484%
206	12.295	12.270	12.405	VV	736858	8803572	97.76%	3.959%
207	12.410	12.405	12.426	VV	3735	45739	0.51%	0.021%
208	12.437	12.426	12.442	VV	3655	33073	0.37%	0.015%
209	12.475	12.442	12.504	VV	10400	206360	2.29%	0.093%
210	12.541	12.504	12.550	VV	4386	109408	1.21%	0.049%
211	12.589	12.550	12.628	VV	768992	9005041	100.00%	4.049%
212	12.648	12.628	12.672	VV	11375	222126	2.47%	0.100%
213	12.700	12.672	12.730	VV	141853	1708609	18.97%	0.768%
214	12.773	12.730	12.789	VV	6046	194023	2.15%	0.087%
215	12.825	12.789	12.839	VV	5994	167556	1.86%	0.075%
216	12.870	12.839	12.901	VV	100339	1335864	14.83%	0.601%
217	12.924	12.901	12.949	VV	10733	233066	2.59%	0.105%
218	12.954	12.949	12.967	VV	6266	66635	0.74%	0.030%
219	12.989	12.967	12.997	VV	6660	117056	1.30%	0.053%
220	13.009	12.997	13.025	VV	7092	112958	1.25%	0.051%
221	13.038	13.025	13.044	VV	6358	68292	0.76%	0.031%
222	13.063	13.044	13.070	VV	7048	107167	1.19%	0.048%
223	13.099	13.070	13.150	VV	11604	398074	4.42%	0.179%
224	13.160	13.150	13.180	VV	7583	132390	1.47%	0.060%
225	13.185	13.180	13.197	VV	7277	70818	0.79%	0.032%
226	13.211	13.197	13.236	VV	7420	167529	1.86%	0.075%
227	13.249	13.236	13.260	VV	7380	104975	1.17%	0.047%
228	13.301	13.260	13.317	VV	7824	253870	2.82%	0.114%
229	13.327	13.317	13.342	VV	8255	119260	1.32%	0.054%
230	13.347	13.342	13.354	VV	7673	51223	0.57%	0.023%
231	13.371	13.354	13.380	VV	7496	115692	1.28%	0.052%
232	13.405	13.380	13.422	VV	8536	201520	2.24%	0.091%
233	13.453	13.422	13.491	VV	101850	1423944	15.81%	0.640%
234	13.503	13.491	13.527	VV	7622	157139	1.75%	0.071%
235	13.545	13.527	13.569	VV	8229	192170	2.13%	0.086%
236	13.579	13.569	13.589	VV	7841	90973	1.01%	0.041%
237	13.593	13.589	13.617	VV	7666	123637	1.37%	0.056%
238	13.633	13.617	13.652	VV	7899	157915	1.75%	0.071%
239	13.655	13.652	13.663	VV	7284	46729	0.52%	0.021%
240	13.681	13.663	13.699	VV	7458	155497	1.73%	0.070%
241	13.703	13.699	13.716	VV	7367	75223	0.84%	0.034%
242	13.720	13.716	13.744	VV	7178	118035	1.31%	0.053%
243	13.758	13.744	13.769	VV	7305	107187	1.19%	0.048%
244	13.774	13.769	13.779	VV	7017	38568	0.43%	0.017%
245	13.789	13.779	13.798	VV	7082	81334	0.90%	0.037%
246	13.804	13.798	13.810	VV	7025	50170	0.56%	0.023%

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WB-303-BOTMSD

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

247	13.817	13.810	13.827	VV	7301	68346	0.76%	0.031%
248	13.865	13.827	13.909	VV	10310	402092		
249	13.929	13.909	13.967	VV	7558	240526		
250	13.972	13.967	13.992	VV	6542	97025		
251	14.014	13.992	14.055	VV	7235	253646		
252	14.068	14.055	14.087	VV	7053	127013		
253	14.101	14.087	14.122	VV	6644	133977	1.49%	0.060%
254	14.148	14.122	14.152	VV	6412	109193	1.21%	0.049%
255	14.158	14.152	14.187	VV	6477	126768	1.41%	0.057%
256	14.209	14.187	14.225	VV	6087	137797	1.53%	0.062%
257	14.235	14.225	14.264	VV	6337	139145	1.55%	0.063%
258	14.269	14.264	14.274	VV	5748	31870	0.35%	0.014%
259	14.288	14.274	14.299	VV	5766	84488	0.94%	0.038%
260	14.307	14.299	14.326	VV	5916	93359	1.04%	0.042%
261	14.346	14.326	14.374	VV	5798	163011	1.81%	0.073%
262	14.378	14.374	14.388	VV	5603	47851	0.53%	0.022%
263	14.396	14.388	14.412	VV	5768	77896	0.87%	0.035%
264	14.458	14.412	14.476	VV	617919	8083594	89.77%	3.635%
265	14.502	14.476	14.526	VV	706153	8152653	90.53%	3.666%
266	14.550	14.526	14.630	VV	96347	1515615	16.83%	0.682%
267	14.634	14.630	14.639	VV	5534	27374	0.30%	0.012%
268	14.643	14.639	14.704	VV	5594	202261	2.25%	0.091%
269	14.737	14.704	14.769	VV	5256	189393	2.10%	0.085%
270	14.775	14.769	14.787	VV	4723	51428	0.57%	0.023%
271	14.791	14.787	14.812	VV	4685	67645	0.75%	0.030%
272	14.824	14.812	14.841	VV	4758	79579	0.88%	0.036%
273	14.848	14.841	14.862	VV	4558	56142	0.62%	0.025%
274	14.883	14.862	14.897	VV	6929	119874	1.33%	0.054%
275	14.923	14.897	14.964	VV	23871	464392	5.16%	0.209%
276	14.970	14.964	14.990	VV	6220	88127	0.98%	0.040%
277	14.995	14.990	15.020	VV	5113	86201	0.96%	0.039%
278	15.028	15.020	15.042	VV	4639	57809	0.64%	0.026%
279	15.075	15.042	15.107	VV	6366	195711	2.17%	0.088%
280	15.118	15.107	15.156	VV	4351	115377	1.28%	0.052%
281	15.160	15.156	15.166	VV	3785	22328	0.25%	0.010%
282	15.181	15.166	15.227	VV	3886	134030	1.49%	0.060%
283	15.266	15.227	15.317	VV	4105	196110	2.18%	0.088%
284	15.337	15.317	15.349	VV	3384	62524	0.69%	0.028%
285	15.393	15.349	15.402	VV	3808	113059	1.26%	0.051%
286	15.408	15.402	15.417	VV	3704	32121	0.36%	0.014%
287	15.434	15.417	15.440	VV	4060	50802	0.56%	0.023%
288	15.447	15.440	15.487	VV	4103	101236	1.12%	0.046%
289	15.493	15.487	15.504	VV	3261	30955	0.34%	0.014%
290	15.524	15.504	15.533	VV	3446	56592	0.63%	0.025%
291	15.567	15.533	15.600	VV	82220	1158932	12.87%	0.521%
292	15.606	15.600	15.661	VV	3444	108435	1.20%	0.049%
293	15.670	15.661	15.689	VV	2592	40652	0.45%	0.018%
294	15.727	15.689	15.757	VV	3266	108894	1.21%	0.049%
295	15.761	15.757	15.770	VV	2454	18805	0.21%	0.008%
296	15.780	15.770	15.794	VV	2462	33201	0.37%	0.015%
297	15.820	15.794	15.852	VV	2647	88221	0.98%	0.040%
298	15.903	15.852	15.910	VV	2757	89917	1.00%	0.040%
299	15.934	15.910	15.964	VV	4271	107575	1.19%	0.048%

Instrument :
FID_D
ClientSampleId :
WB-303-BOTMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/23/2024
Supervised By :Ankita Jodhani 10/23/2024

rteres

300	16.005	15.964	16.020	VV	549103	7824560	86.89%	3.518%
301	16.040	16.020	16.099	VV	668113	7919704	87	
302	16.120	16.099	16.154	VV	6969	144770	1	
303	16.175	16.154	16.235	VV	4087	146151	1	
304	16.257	16.235	16.309	VV	4631	127621	1	
305	16.321	16.309	16.339	VV	2198	37879	0	
306	16.382	16.339	16.455	VV	572492	7588338	84.27%	3.412%
307	16.509	16.455	16.540	VV	77404	1174234	13.04%	0.528%
308	16.552	16.540	16.639	VV	3576	108686	1.21%	0.049%
309	16.684	16.639	16.700	VV	1562	50240	0.56%	0.023%
310	16.711	16.700	16.727	VV	1638	21631	0.24%	0.010%
311	16.738	16.727	16.765	VV	1275	25128	0.28%	0.011%
312	16.804	16.765	16.848	VV	1946	67929	0.75%	0.031%
313	16.871	16.848	16.919	VV	2006	59740	0.66%	0.027%
314	16.955	16.919	17.004	VV	3003	75727	0.84%	0.034%
315	17.028	17.004	17.050	VV	1000	22845	0.25%	0.010%
316	17.073	17.050	17.094	VV	1000	21348	0.24%	0.010%
317	17.098	17.094	17.116	VV	798	9266	0.10%	0.004%
318	17.126	17.116	17.150	VV	638	10854	0.12%	0.005%
319	17.182	17.150	17.224	VV	991	27600	0.31%	0.012%
320	17.283	17.224	17.307	VV	1467	43197	0.48%	0.019%
321	17.320	17.307	17.331	VV	980	11766	0.13%	0.005%
322	17.393	17.331	17.444	VV	78044	1041143	11.56%	0.468%
323	17.481	17.444	17.549	VV	1631	43529	0.48%	0.020%
324	17.556	17.549	17.582	VV	352	4608	0.05%	0.002%
325	17.605	17.582	17.627	VV	548	8136	0.09%	0.004%
326	17.638	17.627	17.652	PV	174	1735	0.02%	0.001%
327	17.687	17.652	17.701	VV	744	10663	0.12%	0.005%
328	17.749	17.701	17.763	VV	561603	8033492	89.21%	3.612%
329	17.786	17.763	17.955	VV	553870	7597757	84.37%	3.416%
330	18.000	17.955	18.147	VV	501807	7303441	81.10%	3.284%
331	18.167	18.147	18.179	PV	416	3498	0.04%	0.002%

Sum of corrected areas: 222385460

Aromatic EPH 093024.M Wed Oct 23 08:00:31 2024

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

Manual Integration Report

Sequence:	FC100224AL	Instrument	FID_c

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

Manual Integration Report

Sequence:	FC102224AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164309BSD	FC067487.D	n-Octacosane (C28)	yogesh	10/23/2024 8:03:21 AM	Ankita	10/23/2024 10:01:04	Peak Integrated by Software
P4456-01	FC067488.D	1-chlorooctadecane (SURR)	yogesh	10/23/2024 8:03:23 AM	Ankita	10/23/2024 10:01:05	Peak Integrated by Software
P4460-03	FC067490.D	1-chlorooctadecane (SURR)	yogesh	10/23/2024 8:03:24 AM	Ankita	10/23/2024 10:01:07	Peak Integrated by Software
P4460-03D	FC067491.D	1-chlorooctadecane (SURR)	yogesh	10/23/2024 8:03:26 AM	Ankita	10/23/2024 10:01:08	Peak Integrated by Software
P4460-03MS	FC067492.D	1-chlorooctadecane (SURR)	yogesh	10/23/2024 8:03:28 AM	Ankita	10/23/2024 10:01:10	Peak Integrated by Software
P4460-03MS	FC067492.D	n-Dodecane (C12)	yogesh	10/23/2024 8:03:28 AM	Ankita	10/23/2024 10:01:10	Peak Integrated by Software
P4460-03MS	FC067492.D	n-Hexacosane (C26)	yogesh	10/23/2024 8:03:28 AM	Ankita	10/23/2024 10:01:10	Peak Integrated by Software
P4460-03MS	FC067492.D	n-Hexatriacontane (C36)	yogesh	10/23/2024 8:03:28 AM	Ankita	10/23/2024 10:01:10	Peak Integrated by Software
P4460-03MS	FC067492.D	n-Tetradecane (C14)	yogesh	10/23/2024 8:03:28 AM	Ankita	10/23/2024 10:01:10	Peak Integrated by Software
P4460-03MSD	FC067493.D	1-chlorooctadecane (SURR)	yogesh	10/23/2024 8:03:30 AM	Ankita	10/23/2024 10:01:11	Peak Integrated by Software
P4460-03MSD	FC067493.D	n-Heneicosane (C21)	yogesh	10/23/2024 8:03:30 AM	Ankita	10/23/2024 10:01:11	Peak Integrated by Software
P4460-03MSD	FC067493.D	n-Tetradecane (C14)	yogesh	10/23/2024 8:03:30 AM	Ankita	10/23/2024 10:01:11	Peak Integrated by Software
P4471-02	FC067495.D	1-chlorooctadecane (SURR)	yogesh	10/23/2024 11:25:14 AM	Ankita	10/24/2024 9:20:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC102224AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4456-01DL	FC067500.D	1-chlorooctadecane (SURR)	yogesh	10/24/2024 8:26:50 AM	Ankita	10/24/2024 9:20:13	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067503.D	n-Tetracontane (C40)	yogesh	10/24/2024 8:26:52 AM	Ankita	10/24/2024 9:20:15	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD093024AR	Instrument	FID_d

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

Manual Integration Report

Sequence:	FD102224AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD048547.D	benzo[b]fluoranthene (C30.41)	yogesh	10/23/2024 8:45:26 AM	Ankita	10/23/2024 10:01:32	Peak Integrated by Software
20 PPM AROMATIC HC	FD048547.D	Bnezo[k]fluoranthene (C30.14)	yogesh	10/23/2024 8:45:26 AM	Ankita	10/23/2024 10:01:32	Peak Integrated by Software
20 PPM AROMATIC HC	FD048547.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/23/2024 8:45:26 AM	Ankita	10/23/2024 10:01:32	Peak Integrated by Software
PB164309BS	FD048549.D	Fluoranthene (C21.85)	yogesh	10/23/2024 8:45:28 AM	Ankita	10/23/2024 10:01:34	Peak Integrated by Software
PB164309BSD	FD048550.D	Fluoranthene (C21.85)	yogesh	10/23/2024 8:45:29 AM	Ankita	10/23/2024 10:01:35	Peak Integrated by Software
P4456-01	FD048551.D	ortho-Terphenyl (SURR)	yogesh	10/23/2024 8:45:31 AM	Ankita	10/23/2024 10:01:36	Peak Integrated by Software
P4460-03MS	FD048555.D	Fluoranthene (C21.85)	yogesh	10/23/2024 8:45:32 AM	Ankita	10/23/2024 10:01:38	Peak Integrated by Software
P4460-03MSD	FD048556.D	Fluoranthene (C21.85)	yogesh	10/23/2024 8:45:34 AM	Ankita	10/23/2024 10:01:39	Peak Integrated by Software
P4460-03MSD	FD048556.D	Naphthalene (C11.7)	yogesh	10/23/2024 8:45:34 AM	Ankita	10/23/2024 10:01:39	Peak Integrated by Software
20 PPM AROMATIC HC	FD048560.D	benzo[b]fluoranthene (C30.41)	yogesh	10/23/2024 11:25:21 AM	Ankita	10/24/2024 9:20:32	Peak Integrated by Software
20 PPM AROMATIC HC	FD048560.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/23/2024 11:25:21 AM	Ankita	10/24/2024 9:20:32	Peak Integrated by Software
P4456-01DL	FD048563.D	ortho-Terphenyl (SURR)	yogesh	10/24/2024 8:27:15 AM	Ankita	10/24/2024 9:20:33	Peak Integrated by Software
20 PPM AROMATIC HC	FD048565.D	Dibenz[a,h]anthracene (C30.36)	yogesh	10/24/2024 8:27:16 AM	Ankita	10/24/2024 9:20:35	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD102224AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD048565.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	10/24/2024 8:27:16 AM	Ankita	10/24/2024 9:20:35	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100224AL

Review By	yogesh	Review On	10/1/2024 9:33:02 AM		
Supervise By	Ankita	Supervise On	10/1/2024 10:31:51 AM		
SubDirectory	FC100224AL	HP Acquire Method		HP Processing Method	FC100224AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067310.D	30 Sep 2024 09:18	YP/AJ	Ok
2	I.BLK	FC067311.D	30 Sep 2024 09:55	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067312.D	30 Sep 2024 10:32	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067313.D	30 Sep 2024 11:10	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067314.D	30 Sep 2024 11:48	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC067315.D	30 Sep 2024 12:47	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067316.D	30 Sep 2024 13:35	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC067317.D	30 Sep 2024 14:29	YP/AJ	Ok
9	I.BLK	FC067318.D	30 Sep 2024 15:06	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067319.D	30 Sep 2024 15:49	YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102224AL

Review By	yogesh	Review On	10/22/2024 1:46:45 PM		
Supervise By	Ankita	Supervise On	10/23/2024 10:01:20 AM		
SubDirectory	FC102224AL	HP Acquire Method		HP Processing Method	FC100224AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067482.D	22 Oct 2024 10:55	YP/AJ	Ok
2	I.BLK	FC067483.D	22 Oct 2024 11:32	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067484.D	22 Oct 2024 12:09	YP/AJ	Ok
4	PB164309BL	FC067485.D	23 Oct 2024 01:18	YP/AJ	Ok
5	PB164309BS	FC067486.D	23 Oct 2024 01:53	YP/AJ	Ok
6	PB164309BSD	FC067487.D	23 Oct 2024 02:29	YP/AJ	Ok,M
7	P4456-01	FC067488.D	23 Oct 2024 03:05	YP/AJ	Dilution
8	P4460-02	FC067489.D	23 Oct 2024 03:41	YP/AJ	Ok
9	P4460-03	FC067490.D	23 Oct 2024 04:16	YP/AJ	Dilution
10	P4460-03D	FC067491.D	23 Oct 2024 04:52	YP/AJ	Ok,M
11	P4460-03MS	FC067492.D	23 Oct 2024 05:28	YP/AJ	Ok,M
12	P4460-03MSD	FC067493.D	23 Oct 2024 06:04	YP/AJ	Ok,M
13	P4471-01	FC067494.D	23 Oct 2024 06:40	YP/AJ	Ok
14	P4471-02	FC067495.D	23 Oct 2024 07:17	YP/AJ	Ok,M
15	I.BLK	FC067496.D	23 Oct 2024 07:54	YP/AJ	Ok
16	20 PPM ALIPHATIC HC STD	FC067497.D	23 Oct 2024 08:30	YP/AJ	Ok
17	P4473-01	FC067498.D	23 Oct 2024 10:19	YP/AJ	Ok
18	P4474-01	FC067499.D	23 Oct 2024 10:56	YP/AJ	Ok
19	P4456-01DL	FC067500.D	23 Oct 2024 11:33	YP/AJ	Ok,M
20	P4460-03DL	FC067501.D	23 Oct 2024 12:09	YP/AJ	Ok
21	I.BLK	FC067502.D	23 Oct 2024 12:46	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102224AL

Review By	yogesh	Review On	10/22/2024 1:46:45 PM		
Supervise By	Ankita	Supervise On	10/23/2024 10:01:20 AM		
SubDirectory	FC102224AL	HP Acquire Method		HP Processing Method	FC100224AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	20 PPM ALIPHATIC HC STD	FC067503.D	23 Oct 2024 13:22	YP/AJ	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD093024AR

Review By	yogesh	Review On	9/30/2024 3:32:01 PM		
Supervise By	Ankita	Supervise On	10/1/2024 10:34:21 AM		
SubDirectory	FD093024AR	HP Acquire Method		HP Processing Method	FD093024AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048396.D	30 Sep 2024 09:18	YP/AJ	Ok
2	I.BLK	FD048397.D	30 Sep 2024 09:55	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048398.D	30 Sep 2024 10:32	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048399.D	30 Sep 2024 11:10	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048400.D	30 Sep 2024 11:48	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048401.D	30 Sep 2024 12:47	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD048402.D	30 Sep 2024 13:35	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD048403.D	30 Sep 2024 14:29	YP/AJ	Ok
9	I.BLK	FD048404.D	30 Sep 2024 15:06	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048405.D	30 Sep 2024 15:49	YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102224AR

Review By	yogesh	Review On	10/22/2024 1:47:57 PM		
Supervise By	Ankita	Supervise On	10/23/2024 10:01:56 AM		
SubDirectory	FD102224AR	HP Acquire Method		HP Processing Method	FD093024AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048545.D	22 Oct 2024 10:55	YP/AJ	Ok
2	I.BLK	FD048546.D	22 Oct 2024 11:32	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048547.D	22 Oct 2024 12:09	YP/AJ	Ok,M
4	PB164309BL	FD048548.D	23 Oct 2024 01:18	YP/AJ	Ok
5	PB164309BS	FD048549.D	23 Oct 2024 01:53	YP/AJ	Ok,M
6	PB164309BSD	FD048550.D	23 Oct 2024 02:29	YP/AJ	Ok,M
7	P4456-01	FD048551.D	23 Oct 2024 03:05	YP/AJ	Dilution
8	P4460-02	FD048552.D	23 Oct 2024 03:41	YP/AJ	Ok
9	P4460-03	FD048553.D	23 Oct 2024 04:16	YP/AJ	Ok
10	P4460-03D	FD048554.D	23 Oct 2024 04:52	YP/AJ	Ok
11	P4460-03MS	FD048555.D	23 Oct 2024 05:28	YP/AJ	Ok,M
12	P4460-03MSD	FD048556.D	23 Oct 2024 06:04	YP/AJ	Ok,M
13	P4471-01	FD048557.D	23 Oct 2024 06:40	YP/AJ	Ok
14	P4471-02	FD048558.D	23 Oct 2024 07:17	YP/AJ	Ok
15	I.BLK	FD048559.D	23 Oct 2024 07:54	YP/AJ	Ok
16	20 PPM AROMATIC HC STD	FD048560.D	23 Oct 2024 08:30	YP/AJ	Ok,M
17	P4473-01	FD048561.D	23 Oct 2024 10:19	YP/AJ	Ok
18	P4474-01	FD048562.D	23 Oct 2024 10:56	YP/AJ	Ok
19	P4456-01DL	FD048563.D	23 Oct 2024 11:33	YP/AJ	Ok,M
20	I.BLK	FD048564.D	23 Oct 2024 12:09	YP/AJ	Ok
21	20 PPM AROMATIC HC STD	FD048565.D	23 Oct 2024 12:46	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100224AL

Review By	yogesh	Review On	10/1/2024 9:33:02 AM		
Supervise By	Ankita	Supervise On	10/1/2024 10:31:51 AM		
SubDirectory	FC100224AL	HP Acquire Method		HP Processing Method	FC100224AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067310.D	30 Sep 2024 09:18		YP/AJ	Ok
2	I.BLK	I.BLK	FC067311.D	30 Sep 2024 09:55		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC067312.D	30 Sep 2024 10:32		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067313.D	30 Sep 2024 11:10		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067314.D	30 Sep 2024 11:48		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC067315.D	30 Sep 2024 12:47		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067316.D	30 Sep 2024 13:35		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067317.D	30 Sep 2024 14:29		YP/AJ	Ok
9	I.BLK	I.BLK	FC067318.D	30 Sep 2024 15:06		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067319.D	30 Sep 2024 15:49		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102224AL

Review By	yogesh	Review On	10/22/2024 1:46:45 PM		
Supervise By	Ankita	Supervise On	10/23/2024 10:01:20 AM		
SubDirectory	FC102224AL	HP Acquire Method		HP Processing Method	FC100224AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067482.D	22 Oct 2024 10:55		YP/AJ	Ok
2	I.BLK	I.BLK	FC067483.D	22 Oct 2024 11:32		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067484.D	22 Oct 2024 12:09		YP/AJ	Ok
4	PB164309BL	PB164309BL	FC067485.D	23 Oct 2024 01:18		YP/AJ	Ok
5	PB164309BS	PB164309BS	FC067486.D	23 Oct 2024 01:53		YP/AJ	Ok
6	PB164309BSD	PB164309BSD	FC067487.D	23 Oct 2024 02:29		YP/AJ	Ok,M
7	P4456-01	PAD-10182024	FC067488.D	23 Oct 2024 03:05	need 50x dilution	YP/AJ	Dilution
8	P4460-02	WB-303-TOP	FC067489.D	23 Oct 2024 03:41		YP/AJ	Ok
9	P4460-03	WB-303-BOT	FC067490.D	23 Oct 2024 04:16	need 5x dilution	YP/AJ	Dilution
10	P4460-03D	P4460-03D	FC067491.D	23 Oct 2024 04:52		YP/AJ	Ok,M
11	P4460-03MS	WB-303-BOTMS	FC067492.D	23 Oct 2024 05:28	FC067490.D	YP/AJ	Ok,M
12	P4460-03MSD	WB-303-BOTMSD	FC067493.D	23 Oct 2024 06:04	FC067490.D!FC067492.D	YP/AJ	Ok,M
13	P4471-01	B-180-SB01	FC067494.D	23 Oct 2024 06:40		YP/AJ	Ok
14	P4471-02	B-180-SB02	FC067495.D	23 Oct 2024 07:17		YP/AJ	Ok,M
15	I.BLK	I.BLK	FC067496.D	23 Oct 2024 07:54		YP/AJ	Ok
16	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067497.D	23 Oct 2024 08:30		YP/AJ	Ok
17	P4473-01	TS-1	FC067498.D	23 Oct 2024 10:19		YP/AJ	Ok
18	P4474-01	TS-2	FC067499.D	23 Oct 2024 10:56		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102224AL

Review By	yogesh	Review On	10/22/2024 1:46:45 PM		
Supervise By	Ankita	Supervise On	10/23/2024 10:01:20 AM		
SubDirectory	FC102224AL	HP Acquire Method		HP Processing Method	FC100224AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4456-01DL	PAD-10182024DL	FC067500.D	23 Oct 2024 11:33		YP/AJ	Ok,M
20	P4460-03DL	WB-303-BOTDL	FC067501.D	23 Oct 2024 12:09		YP/AJ	Ok
21	I.BLK	I.BLK	FC067502.D	23 Oct 2024 12:46		YP/AJ	Ok
22	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067503.D	23 Oct 2024 13:22		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD093024AR

Review By	yogesh	Review On	9/30/2024 3:32:01 PM		
Supervise By	Ankita	Supervise On	10/1/2024 10:34:21 AM		
SubDirectory	FD093024AR	HP Acquire Method		HP Processing Method	FD093024AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048396.D	30 Sep 2024 09:18		YP/AJ	Ok
2	I.BLK	I.BLK	FD048397.D	30 Sep 2024 09:55		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048398.D	30 Sep 2024 10:32		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048399.D	30 Sep 2024 11:10		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048400.D	30 Sep 2024 11:48		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048401.D	30 Sep 2024 12:47		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048402.D	30 Sep 2024 13:35		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048403.D	30 Sep 2024 14:29		YP/AJ	Ok
9	I.BLK	I.BLK	FD048404.D	30 Sep 2024 15:06		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048405.D	30 Sep 2024 15:49		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102224AR

Review By	yogesh	Review On	10/22/2024 1:47:57 PM		
Supervise By	Ankita	Supervise On	10/23/2024 10:01:56 AM		
SubDirectory	FD102224AR	HP Acquire Method		HP Processing Method	FD093024AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048545.D	22 Oct 2024 10:55		YP/AJ	Ok
2	I.BLK	I.BLK	FD048546.D	22 Oct 2024 11:32		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048547.D	22 Oct 2024 12:09		YP/AJ	Ok,M
4	PB164309BL	PB164309BL	FD048548.D	23 Oct 2024 01:18		YP/AJ	Ok
5	PB164309BS	PB164309BS	FD048549.D	23 Oct 2024 01:53		YP/AJ	Ok,M
6	PB164309BSD	PB164309BSD	FD048550.D	23 Oct 2024 02:29		YP/AJ	Ok,M
7	P4456-01	PAD-10182024	FD048551.D	23 Oct 2024 03:05	need 5x dilution	YP/AJ	Dilution
8	P4460-02	WB-303-TOP	FD048552.D	23 Oct 2024 03:41		YP/AJ	Ok
9	P4460-03	WB-303-BOT	FD048553.D	23 Oct 2024 04:16		YP/AJ	Ok
10	P4460-03D	P4460-03D	FD048554.D	23 Oct 2024 04:52		YP/AJ	Ok
11	P4460-03MS	WB-303-BOTMS	FD048555.D	23 Oct 2024 05:28	FD048553.D	YP/AJ	Ok,M
12	P4460-03MSD	WB-303-BOTMSD	FD048556.D	23 Oct 2024 06:04	FD048553.D!FD048555.D	YP/AJ	Ok,M
13	P4471-01	B-180-SB01	FD048557.D	23 Oct 2024 06:40		YP/AJ	Ok
14	P4471-02	B-180-SB02	FD048558.D	23 Oct 2024 07:17		YP/AJ	Ok
15	I.BLK	I.BLK	FD048559.D	23 Oct 2024 07:54		YP/AJ	Ok
16	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048560.D	23 Oct 2024 08:30		YP/AJ	Ok,M
17	P4473-01	TS-1	FD048561.D	23 Oct 2024 10:19		YP/AJ	Ok
18	P4474-01	TS-2	FD048562.D	23 Oct 2024 10:56		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102224AR

Review By	yogesh	Review On	10/22/2024 1:47:57 PM		
Supervise By	Ankita	Supervise On	10/23/2024 10:01:56 AM		
SubDirectory	FD102224AR	HP Acquire Method		HP Processing Method	FD093024AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4456-01DL	PAD-10182024DL	FD048563.D	23 Oct 2024 11:33		YP/AJ	Ok,M
20	I.BLK	I.BLK	FD048564.D	23 Oct 2024 12:09		YP/AJ	Ok
21	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048565.D	23 Oct 2024 12:46		YP/AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164309

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/22/2024
Matrix :	Solid			**Extraction Start Time :**	09:40
Weigh By:	EH	**Extraction By:**	RS	**Extraction End Date :**	10/22/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:55
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**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
Surrogate	1.0ML	100 PPM	PP23706
Fractionation Surrogate	1.0ML	100 PPM	PP23704
Spike Sol 1	1.0ML	100 PPM	PP23712
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	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Hexane	N/A	E3819
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	N/A	**Envap ID:**	NE VAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/22/24	RP (Ext. Lab)	Y-P'pet IPG.
17:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164309

Analytical Method: MNJDEP-EPH-7

Concentration Date: 10/22/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164309BL	PB164309BL	EPH	30.02	N/A	ritesh	Evelyn	2			U1-1
PB164309BS	PB164309BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB164309BSD	PB164309BSD	EPH	30.01	N/A	ritesh	Evelyn	2			3
P4456-01	PAD-10182024	EPH	30.04	N/A	ritesh	Evelyn	2	B	Concrete	4
P4460-02	WB-303-TOP	EPH	30.02	N/A	ritesh	Evelyn	2	E		5
P4460-03	WB-303-BOT	EPH	30.05	N/A	ritesh	Evelyn	2	E		6
P4460-03DUP	WB-303-BOTDUP	EPH	30.06	N/A	ritesh	Evelyn	2	E		U5-1
P4460-03MS	WB-303-BOTMS	EPH	30.08	N/A	ritesh	Evelyn	2	E		2
P4460-03MSD	WB-303-BOTMSD	EPH	30.05	N/A	ritesh	Evelyn	2	E		3
P4471-01	B-180-SB01	EPH	30.01	N/A	ritesh	Evelyn	2	E		4
P4471-02	B-180-SB02	EPH	30.06	N/A	ritesh	Evelyn	2	E		5
P4473-01	TS-1	EPH	30.03	N/A	ritesh	Evelyn	2	C		6
P4474-01	TS-2	EPH	30.05	N/A	ritesh	Evelyn	2	V		U6-1

* **Extracts relinquished on the same date as received.**

10/22/24

166209 9:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4456 **WorkList ID :** 184648 **Department :** Extraction **Date :** 10-22-2024 08:18:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4456-01	PAD-10182024	Solid	EPH	Cool 4 deg C	PSEG03	K51	10/18/2024	NJEPH
P4460-02	WB-303-TOP	Solid	EPH	Cool 4 deg C	PORT06	K51	10/18/2024	NJEPH
P4460-03	WB-303-BOT	Solid	EPH	Cool 4 deg C	PORT06	K51	10/18/2024	NJEPH
P4467-01	TP-1	Solid	EPH_NF	Cool 4 deg C	PSEG03	K41	10/21/2024	NJEPH
P4467-02	TP-1-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K41	10/21/2024	NJEPH
P4468-03	ETGI-329	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/21/2024	NJEPH
P4468-05	ETGI-345	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/21/2024	NJEPH
P4470-01	CL-01-102124	Solid	EPH_NF	Cool 4 deg C	PSEG05	K51	10/21/2024	NJEPH
P4470-02	CL-01-102124-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	K51	10/21/2024	NJEPH
P4471-01	B-180-SB01	Solid	EPH	Cool 4 deg C	PORT06	J61	10/19/2024	NJEPH
P4471-02	B-180-SB02	Solid	EPH	Cool 4 deg C	PORT06	J61	10/20/2024	NJEPH
P4472-01	BP-F-28	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/21/2024	NJEPH
P4472-03	BP-F-28-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/21/2024	NJEPH
P4472-05	BP-F-6	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/21/2024	NJEPH
P4472-07	BP-F-6-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	K51	10/21/2024	NJEPH

634 of 742

Date/Time 10/22/24 9:35
Raw Sample Received by: RJ (Ext Tech)
Raw Sample Relinquished by: CP

Date/Time 10/22/24 10:00
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Ext Tech)

P4471

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4473E **WorkList ID :** 184660 **Department :** Extraction **Date :** 10-22-2024 09:42:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4473-01	TS-1	Solid	EPH	Cool 4 deg C	YANN01	K61	10/18/2024	NJEPH
P4474-01	TS-2	Solid	EPH	Cool 4 deg C	YANN01	K61	10/18/2024	NJEPH

Date/Time 10/22/24 9:42
Raw Sample Received by: RJ (Ext Ice)
Raw Sample Relinquished by:

Date/Time 10/22/24 9:54
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Ext Ice)

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

LAB CHRONICLE

OrderID:	P4471	**OrderDate:**	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	**B-180-SB01**	**Solid**			**10/19/24**			**10/21/24**
			EPH	NJEPH		10/22/24	10/23/24	
P4471-02	**B-180-SB02**	**Solid**			**10/20/24**			**10/21/24**
			EPH	NJEPH		10/22/24	10/23/24	

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Hit Summary Sheet
SW-846

SDG No.: P4471 **Order ID:** P4471

Client: Portal Partners Tri-Venture **Project ID:** 314183

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-180-SB01								
P4471-01	B-180-SB01	SOIL	Aluminum	9310		2.68	5.57	mg/Kg
P4471-01	B-180-SB01	SOIL	Arsenic	2.05		0.32	1.11	mg/Kg
P4471-01	B-180-SB01	SOIL	Barium	119		0.71	5.57	mg/Kg
P4471-01	B-180-SB01	SOIL	Beryllium	0.53		0.013	0.33	mg/Kg
P4471-01	B-180-SB01	SOIL	Cadmium	1.07		0.018	0.33	mg/Kg
P4471-01	B-180-SB01	SOIL	Calcium	3830		3.12	111	mg/Kg
P4471-01	B-180-SB01	SOIL	Chromium	20.5		0.060	0.56	mg/Kg
P4471-01	B-180-SB01	SOIL	Cobalt	11.7		0.065	1.67	mg/Kg
P4471-01	B-180-SB01	SOIL	Copper	39.0		0.52	1.11	mg/Kg
P4471-01	B-180-SB01	SOIL	Iron	17200		2.99	5.57	mg/Kg
P4471-01	B-180-SB01	SOIL	Lead	46.2		0.17	0.67	mg/Kg
P4471-01	B-180-SB01	SOIL	Magnesium	5580		3.82	111	mg/Kg
P4471-01	B-180-SB01	SOIL	Manganese	179		0.079	1.11	mg/Kg
P4471-01	B-180-SB01	SOIL	Mercury	0.48		0.0060	0.015	mg/Kg
P4471-01	B-180-SB01	SOIL	Nickel	23.6		0.10	2.23	mg/Kg
P4471-01	B-180-SB01	SOIL	Potassium	5600		31.9	111	mg/Kg
P4471-01	B-180-SB01	SOIL	Silver	0.24	J	0.058	0.56	mg/Kg
P4471-01	B-180-SB01	SOIL	Sodium	154		40.2	111	mg/Kg
P4471-01	B-180-SB01	SOIL	Vanadium	29.1		0.30	2.23	mg/Kg
P4471-01	B-180-SB01	SOIL	Zinc	102		0.12	2.23	mg/Kg
Client ID : B-180-SB02								
P4471-02	B-180-SB02	SOIL	Aluminum	5750		4.26	8.84	mg/Kg
P4471-02	B-180-SB02	SOIL	Arsenic	0.88	J	0.51	1.77	mg/Kg
P4471-02	B-180-SB02	SOIL	Barium	6.66	J	1.13	8.84	mg/Kg
P4471-02	B-180-SB02	SOIL	Beryllium	0.32	J	0.021	0.53	mg/Kg
P4471-02	B-180-SB02	SOIL	Cadmium	0.18	J	0.028	0.53	mg/Kg
P4471-02	B-180-SB02	SOIL	Calcium	2020		4.95	177	mg/Kg
P4471-02	B-180-SB02	SOIL	Chromium	6.46		0.095	0.88	mg/Kg
P4471-02	B-180-SB02	SOIL	Cobalt	4.02		0.10	2.65	mg/Kg
P4471-02	B-180-SB02	SOIL	Copper	4.10		0.83	1.77	mg/Kg
P4471-02	B-180-SB02	SOIL	Iron	5320		4.75	8.84	mg/Kg
P4471-02	B-180-SB02	SOIL	Lead	4.08		0.27	1.06	mg/Kg
P4471-02	B-180-SB02	SOIL	Magnesium	1530		6.06	177	mg/Kg
P4471-02	B-180-SB02	SOIL	Manganese	27.9		0.13	1.77	mg/Kg
P4471-02	B-180-SB02	SOIL	Mercury	0.11		0.012	0.027	mg/Kg
P4471-02	B-180-SB02	SOIL	Nickel	8.73		0.16	3.53	mg/Kg
P4471-02	B-180-SB02	SOIL	Potassium	502		50.7	177	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4471 **Order ID:** P4471

Client: Portal Partners Tri-Venture **Project ID:** 314183

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4471-02	B-180-SB02	SOIL	Sodium	1370		63.8	177	mg/Kg
P4471-02	B-180-SB02	SOIL	Vanadium	6.18		0.48	3.53	mg/Kg
P4471-02	B-180-SB02	SOIL	Zinc	17.4		0.19	3.53	mg/Kg

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9310		1	2.68	5.57	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-36-0	Antimony	0.17	UN	1	0.17	2.78	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-38-2	Arsenic	2.05		1	0.32	1.11	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-39-3	Barium	119	N	1	0.71	5.57	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-41-7	Beryllium	0.53		1	0.013	0.33	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-43-9	Cadmium	1.07		1	0.018	0.33	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-70-2	Calcium	3830		1	3.12	111	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-47-3	Chromium	20.5		1	0.060	0.56	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-48-4	Cobalt	11.7		1	0.065	1.67	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-50-8	Copper	39.0		1	0.52	1.11	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7439-89-6	Iron	17200		1	2.99	5.57	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7439-92-1	Lead	46.2		1	0.17	0.67	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7439-95-4	Magnesium	5580		1	3.82	111	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7439-96-5	Manganese	179		1	0.079	1.11	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7439-97-6	Mercury	0.48		1	0.0060	0.015	mg/Kg	10/21/24 16:20	10/22/24 13:13	SW7471B	
7440-02-0	Nickel	23.6		1	0.10	2.23	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-09-7	Potassium	5600		1	31.9	111	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7782-49-2	Selenium	0.37	U	1	0.37	1.11	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-22-4	Silver	0.24	J	1	0.058	0.56	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-23-5	Sodium	154	N	1	40.2	111	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-28-0	Thallium	0.49	U	1	0.49	2.23	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-62-2	Vanadium	29.1		1	0.30	2.23	mg/Kg	10/22/24 10:30	10/24/24 18:20	SW6010	SW3050
7440-66-6	Zinc	102		1	0.12	2.23	mg/Kg	10/22/24 10:30	10/24/24 18:20	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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	49.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5750		1	4.26	8.84	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-36-0	Antimony	0.27	UN	1	0.27	4.42	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-38-2	Arsenic	0.88	J	1	0.51	1.77	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-39-3	Barium	6.66	JN	1	1.13	8.84	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-41-7	Beryllium	0.32	J	1	0.021	0.53	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-43-9	Cadmium	0.18	J	1	0.028	0.53	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-70-2	Calcium	2020		1	4.95	177	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-47-3	Chromium	6.46		1	0.095	0.88	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-48-4	Cobalt	4.02		1	0.10	2.65	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-50-8	Copper	4.10		1	0.83	1.77	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7439-89-6	Iron	5320		1	4.75	8.84	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7439-92-1	Lead	4.08		1	0.27	1.06	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7439-95-4	Magnesium	1530		1	6.06	177	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7439-96-5	Manganese	27.9		1	0.13	1.77	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7439-97-6	Mercury	0.11		1	0.012	0.027	mg/Kg	10/21/24 16:20	10/22/24 13:16	SW7471B	
7440-02-0	Nickel	8.73		1	0.16	3.53	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-09-7	Potassium	502		1	50.7	177	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7782-49-2	Selenium	0.58	U	1	0.58	1.77	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-22-4	Silver	0.092	U	1	0.092	0.88	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-23-5	Sodium	1370	N	1	63.8	177	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-28-0	Thallium	0.78	U	1	0.78	3.53	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-62-2	Vanadium	6.18		1	0.48	3.53	mg/Kg	10/22/24 10:30	10/24/24 18:24	SW6010	SW3050
7440-66-6	Zinc	17.4		1	0.19	3.53	mg/Kg	10/22/24 10:30	10/24/24 18:24	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
MDL = Method Detection Limit
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Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB47	Mercury	0	+/-0	U	0	CV	10/22/2024	11:57	LB133043

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB52	Mercury	0	+/-0	U	0	CV	10/22/2024	12:01	LB133043
CCB53	Mercury	0	+/-0	U	0	CV	10/22/2024	12:39	LB133043
CCB54	Mercury	0	+/-0	U	0	CV	10/22/2024	13:07	LB133043
CCB55	Mercury	0	+/-0	U	0	CV	10/22/2024	13:32	LB133043

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	13:34	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	13:34	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	13:34	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	13:34	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	13:34	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	13:34	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	13:34	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	13:34	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	13:34	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	13:34	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	13:34	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	13:34	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	13:34	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	13:34	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	13:34	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	13:34	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	13:34	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	13:34	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	13:34	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	13:34	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	13:34	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	13:34	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	14:11	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	14:11	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	14:11	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	14:11	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	14:11	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	14:11	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	14:11	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	14:11	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	14:11	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	14:11	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	14:11	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	14:11	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	14:11	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	14:11	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	14:11	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	14:11	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	14:11	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	14:11	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	14:11	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	14:11	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	14:11	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	14:11	LB133110
CCB02	Aluminum	100	+/-100	U	100	P	10/24/2024	14:57	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	14:57	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	14:57	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	14:57	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	14:57	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	14:57	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	14:57	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	14:57	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	14:57	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	14:57	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	14:57	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	14:57	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	14:57	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	14:57	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	14:57	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	14:57	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	14:57	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	14:57	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	14:57	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	14:57	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	14:57	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	14:57	LB133110
CCB03	Aluminum	100	+/-100	U	100	P	10/24/2024	15:12	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	15:12	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	15:12	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	15:12	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	15:12	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	15:12	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	15:12	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	15:12	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	15:12	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	15:12	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	15:12	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	15:12	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	15:12	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	15:12	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	15:12	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	15:12	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	15:12	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	15:12	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	15:12	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	15:12	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	15:12	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	15:12	LB133110
CCB04	Aluminum	100	+/-100	U	100	P	10/24/2024	16:02	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	16:02	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	16:02	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	16:02	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	16:02	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	16:02	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	16:02	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	16:02	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	16:02	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	16:02	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	16:02	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	16:02	LB133110

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	16:02	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	16:02	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	16:02	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	16:02	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	16:02	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	16:02	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	16:02	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	16:02	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	16:02	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	16:02	LB133110
CCB05	Aluminum	100	+/-100	U	100	P	10/24/2024	16:59	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	16:59	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	16:59	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	16:59	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	16:59	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	16:59	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	16:59	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	16:59	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	16:59	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	16:59	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	16:59	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	16:59	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	16:59	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	16:59	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	16:59	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	16:59	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	16:59	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	16:59	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	16:59	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	16:59	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	16:59	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	16:59	LB133110
CCB06	Aluminum	100	+/-100	U	100	P	10/24/2024	17:50	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	17:50	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	17:50	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	17:50	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	17:50	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	17:50	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	17:50	LB133110

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	17:50	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	17:50	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	17:50	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	17:50	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	17:50	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	17:50	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	17:50	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	17:50	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	17:50	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	17:50	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	17:50	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	17:50	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	17:50	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	17:50	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	17:50	LB133110
CCB07	Aluminum	100	+/-100	U	100	P	10/24/2024	18:41	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	18:41	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	18:41	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	18:41	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	18:41	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	18:41	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	18:41	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	18:41	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	18:41	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	18:41	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	18:41	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	18:41	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	18:41	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	18:41	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	18:41	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	18:41	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	18:41	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	18:41	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	18:41	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	18:41	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	18:41	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	18:41	LB133110
CCB08	Aluminum	100	+/-100	U	100	P	10/24/2024	19:45	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	19:45	LB133110

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	19:45	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	19:45	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	19:45	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	19:45	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	19:45	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	19:45	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	19:45	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	19:45	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	19:45	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	19:45	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	19:45	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	19:45	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	19:45	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	19:45	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	19:45	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	19:45	LB133110
	Sodium	908	+/-2000	J	2000	P	10/24/2024	19:45	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	19:45	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	19:45	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	19:45	LB133110
CCB09	Aluminum	100	+/-100	U	100	P	10/24/2024	20:36	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	20:36	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	20:36	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	20:36	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	20:36	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	20:36	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	20:36	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	20:36	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	20:36	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	20:36	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	20:36	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	20:36	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	20:36	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	20:36	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	20:36	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	20:36	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	20:36	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	20:36	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	20:36	LB133110

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	20:36	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	20:36	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	20:36	LB133110
CCB10	Aluminum	100	+/-100	U	100	P	10/24/2024	21:28	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	21:28	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	21:28	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	21:28	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	21:28	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	21:28	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	21:28	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	21:28	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	21:28	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	21:28	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	21:28	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	21:28	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	21:28	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	21:28	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	21:28	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	21:28	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	21:28	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	21:28	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	21:28	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	21:28	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	21:28	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	21:28	LB133110
CCB11	Aluminum	100	+/-100	U	100	P	10/24/2024	22:20	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	22:20	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	22:20	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	22:20	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	22:20	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	22:20	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	22:20	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	22:20	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	22:20	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	22:20	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	22:20	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	22:20	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	22:20	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	22:20	LB133110

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	22:20	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	22:20	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	22:20	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	22:20	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	22:20	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	22:20	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	22:20	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	22:20	LB133110
CCB12	Aluminum	100	+/-100	U	100	P	10/24/2024	23:13	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/24/2024	23:13	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/24/2024	23:13	LB133110
	Barium	100	+/-100	U	100	P	10/24/2024	23:13	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/24/2024	23:13	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/24/2024	23:13	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/24/2024	23:13	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/24/2024	23:13	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/24/2024	23:13	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/24/2024	23:13	LB133110
	Iron	100	+/-100	U	100	P	10/24/2024	23:13	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/24/2024	23:13	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/24/2024	23:13	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/24/2024	23:13	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/24/2024	23:13	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/24/2024	23:13	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/24/2024	23:13	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/24/2024	23:13	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/24/2024	23:13	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/24/2024	23:13	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/24/2024	23:13	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/24/2024	23:13	LB133110
CCB13	Aluminum	100	+/-100	U	100	P	10/25/2024	00:02	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/25/2024	00:02	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/25/2024	00:02	LB133110
	Barium	100	+/-100	U	100	P	10/25/2024	00:02	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/25/2024	00:02	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/25/2024	00:02	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/25/2024	00:02	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/25/2024	00:02	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/25/2024	00:02	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB13	Copper	20.0	+/-20.0	U	20.0	P	10/25/2024	00:02	LB133110
	Iron	100	+/-100	U	100	P	10/25/2024	00:02	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/25/2024	00:02	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/25/2024	00:02	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/25/2024	00:02	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/25/2024	00:02	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/25/2024	00:02	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/25/2024	00:02	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/25/2024	00:02	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/25/2024	00:02	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/25/2024	00:02	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/25/2024	00:02	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/25/2024	00:02	LB133110
CCB14	Aluminum	100	+/-100	U	100	P	10/25/2024	00:56	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/25/2024	00:56	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/25/2024	00:56	LB133110
	Barium	100	+/-100	U	100	P	10/25/2024	00:56	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/25/2024	00:56	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/25/2024	00:56	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/25/2024	00:56	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/25/2024	00:56	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/25/2024	00:56	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/25/2024	00:56	LB133110
	Iron	100	+/-100	U	100	P	10/25/2024	00:56	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/25/2024	00:56	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/25/2024	00:56	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/25/2024	00:56	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/25/2024	00:56	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/25/2024	00:56	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/25/2024	00:56	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/25/2024	00:56	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/25/2024	00:56	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/25/2024	00:56	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/25/2024	00:56	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/25/2024	00:56	LB133110
CCB15	Aluminum	100	+/-100	U	100	P	10/25/2024	01:50	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/25/2024	01:50	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/25/2024	01:50	LB133110
	Barium	100	+/-100	U	100	P	10/25/2024	01:50	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB15	Beryllium	6.00	+/-6.00	U	6.00	P	10/25/2024	01:50	LB133110
	Cadmium	6.00	+/-6.00	U	6.00	P	10/25/2024	01:50	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/25/2024	01:50	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/25/2024	01:50	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/25/2024	01:50	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/25/2024	01:50	LB133110
	Iron	100	+/-100	U	100	P	10/25/2024	01:50	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/25/2024	01:50	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/25/2024	01:50	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/25/2024	01:50	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/25/2024	01:50	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/25/2024	01:50	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/25/2024	01:50	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/25/2024	01:50	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/25/2024	01:50	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/25/2024	01:50	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/25/2024	01:50	LB133110
	Zinc	40.0	+/-40.0	U	40.0	P	10/25/2024	01:50	LB133110
CCB16	Aluminum	100	+/-100	U	100	P	10/25/2024	02:48	LB133110
	Antimony	50.0	+/-50.0	U	50.0	P	10/25/2024	02:48	LB133110
	Arsenic	20.0	+/-20.0	U	20.0	P	10/25/2024	02:48	LB133110
	Barium	100	+/-100	U	100	P	10/25/2024	02:48	LB133110
	Beryllium	6.00	+/-6.00	U	6.00	P	10/25/2024	02:48	LB133110
	Cadmium	0.30	+/-6.00	J	6.00	P	10/25/2024	02:48	LB133110
	Calcium	2000	+/-2000	U	2000	P	10/25/2024	02:48	LB133110
	Chromium	10.0	+/-10.0	U	10.0	P	10/25/2024	02:48	LB133110
	Cobalt	30.0	+/-30.0	U	30.0	P	10/25/2024	02:48	LB133110
	Copper	20.0	+/-20.0	U	20.0	P	10/25/2024	02:48	LB133110
	Iron	100	+/-100	U	100	P	10/25/2024	02:48	LB133110
	Lead	12.0	+/-12.0	U	12.0	P	10/25/2024	02:48	LB133110
	Magnesium	2000	+/-2000	U	2000	P	10/25/2024	02:48	LB133110
	Manganese	20.0	+/-20.0	U	20.0	P	10/25/2024	02:48	LB133110
	Nickel	40.0	+/-40.0	U	40.0	P	10/25/2024	02:48	LB133110
	Potassium	2000	+/-2000	U	2000	P	10/25/2024	02:48	LB133110
	Selenium	20.0	+/-20.0	U	20.0	P	10/25/2024	02:48	LB133110
	Silver	10.0	+/-10.0	U	10.0	P	10/25/2024	02:48	LB133110
	Sodium	2000	+/-2000	U	2000	P	10/25/2024	02:48	LB133110
	Thallium	40.0	+/-40.0	U	40.0	P	10/25/2024	02:48	LB133110
	Vanadium	40.0	+/-40.0	U	40.0	P	10/25/2024	02:48	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB16	Zinc	40.0	+/-40.0	U	40.0	P	10/25/2024	02:48	LB133110

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164322BL		**SOLID**		**Batch Number:**	**PB164322**		**Prep Date:**	**10/21/2024**	
	Mercury	0.012	<0.012	U	0.012	CV	10/22/2024	12:13	LB133043

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164317BL		**SOLID**		**Batch Number:**	**PB164317**		**Prep Date:**	**10/22/2024**	
	Aluminum	4.72	<4.72	U	4.72	P	10/24/2024	18:45	LB133110
	Antimony	2.36	<2.36	U	2.36	P	10/24/2024	18:45	LB133110
	Arsenic	0.94	<0.94	U	0.94	P	10/24/2024	18:45	LB133110
	Barium	4.72	<4.72	U	4.72	P	10/24/2024	18:45	LB133110
	Beryllium	0.28	<0.28	U	0.28	P	10/24/2024	18:45	LB133110
	Cadmium	0.28	<0.28	U	0.28	P	10/24/2024	18:45	LB133110
	Calcium	94.3	<94.3	U	94.3	P	10/24/2024	18:45	LB133110
	Chromium	0.47	<0.47	U	0.47	P	10/24/2024	18:45	LB133110
	Cobalt	1.42	<1.42	U	1.42	P	10/24/2024	18:45	LB133110
	Copper	0.94	<0.94	U	0.94	P	10/24/2024	18:45	LB133110
	Iron	4.72	<4.72	U	4.72	P	10/24/2024	18:45	LB133110
	Lead	0.57	<0.57	U	0.57	P	10/24/2024	18:45	LB133110
	Magnesium	94.3	<94.3	U	94.3	P	10/24/2024	18:45	LB133110
	Manganese	0.94	<0.94	U	0.94	P	10/24/2024	18:45	LB133110
	Nickel	1.89	<1.89	U	1.89	P	10/24/2024	18:45	LB133110
	Potassium	94.3	<94.3	U	94.3	P	10/24/2024	18:45	LB133110
	Selenium	0.94	<0.94	U	0.94	P	10/24/2024	18:45	LB133110
	Silver	0.47	<0.47	U	0.47	P	10/24/2024	18:45	LB133110
	Sodium	94.3	<94.3	U	94.3	P	10/24/2024	18:45	LB133110
	Thallium	1.89	<1.89	U	1.89	P	10/24/2024	18:45	LB133110
	Vanadium	1.89	<1.89	U	1.89	P	10/24/2024	18:45	LB133110
	Zinc	1.89	<1.89	U	1.89	P	10/24/2024	18:45	LB133110

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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
ICV47	Mercury	4.26	4.0	106	90 - 110	CV	10/22/2024	11:54	LB133043

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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
CCV52	Mercury	5.02	5.0	100	90 - 110	CV	10/22/2024	11:59	LB133043
CCV53	Mercury	5.17	5.0	103	90 - 110	CV	10/22/2024	12:36	LB133043
CCV54	Mercury	5.17	5.0	103	90 - 110	CV	10/22/2024	13:04	LB133043
CCV55	Mercury	5.32	5.0	106	90 - 110	CV	10/22/2024	13:29	LB133043

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	13:26	LB133110
	Antimony	1020	1000	102	90 - 110	P	10/24/2024	13:26	LB133110
	Arsenic	965	1000	96	90 - 110	P	10/24/2024	13:26	LB133110
	Barium	486	520	93	90 - 110	P	10/24/2024	13:26	LB133110
	Beryllium	483	510	95	90 - 110	P	10/24/2024	13:26	LB133110
	Cadmium	481	510	94	90 - 110	P	10/24/2024	13:26	LB133110
	Calcium	9650	10000	96	90 - 110	P	10/24/2024	13:26	LB133110
	Chromium	523	520	101	90 - 110	P	10/24/2024	13:26	LB133110
	Cobalt	520	520	100	90 - 110	P	10/24/2024	13:26	LB133110
	Copper	539	510	106	90 - 110	P	10/24/2024	13:26	LB133110
	Iron	10100	10000	101	90 - 110	P	10/24/2024	13:26	LB133110
	Lead	974	1000	97	90 - 110	P	10/24/2024	13:26	LB133110
	Magnesium	5440	6000	91	90 - 110	P	10/24/2024	13:26	LB133110
	Manganese	490	520	94	90 - 110	P	10/24/2024	13:26	LB133110
	Nickel	523	530	99	90 - 110	P	10/24/2024	13:26	LB133110
	Potassium	10200	9900	102	90 - 110	P	10/24/2024	13:26	LB133110
	Selenium	1000	1000	100	90 - 110	P	10/24/2024	13:26	LB133110
	Silver	264	250	106	90 - 110	P	10/24/2024	13:26	LB133110
	Sodium	9680	10000	97	90 - 110	P	10/24/2024	13:26	LB133110
	Thallium	996	1000	100	90 - 110	P	10/24/2024	13:26	LB133110
	Vanadium	467	500	93	90 - 110	P	10/24/2024	13:26	LB133110
	Zinc	1060	1000	106	90 - 110	P	10/24/2024	13:26	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	98.7	100	99	80 - 120	P	10/24/2024	13:30	LB133110
	Antimony	52.1	50.0	104	80 - 120	P	10/24/2024	13:30	LB133110
	Arsenic	19.0	20.0	95	80 - 120	P	10/24/2024	13:30	LB133110
	Barium	95.8	100	96	80 - 120	P	10/24/2024	13:30	LB133110
	Beryllium	5.72	6.0	95	80 - 120	P	10/24/2024	13:30	LB133110
	Cadmium	5.61	6.0	94	80 - 120	P	10/24/2024	13:30	LB133110
	Calcium	1950	2000	97	80 - 120	P	10/24/2024	13:30	LB133110
	Chromium	10.0	10.0	100	80 - 120	P	10/24/2024	13:30	LB133110
	Cobalt	30.0	30.0	100	80 - 120	P	10/24/2024	13:30	LB133110
	Copper	22.9	20.0	114	80 - 120	P	10/24/2024	13:30	LB133110
	Iron	106	100	106	80 - 120	P	10/24/2024	13:30	LB133110
	Lead	11.6	12.0	96	80 - 120	P	10/24/2024	13:30	LB133110
	Magnesium	1840	2000	92	80 - 120	P	10/24/2024	13:30	LB133110
	Manganese	20.0	20.0	100	80 - 120	P	10/24/2024	13:30	LB133110
	Nickel	39.5	40.0	99	80 - 120	P	10/24/2024	13:30	LB133110
	Potassium	2040	2000	102	80 - 120	P	10/24/2024	13:30	LB133110
	Selenium	19.0	20.0	95	80 - 120	P	10/24/2024	13:30	LB133110
	Silver	11.0	10.0	110	80 - 120	P	10/24/2024	13:30	LB133110
	Sodium	1910	2000	96	80 - 120	P	10/24/2024	13:30	LB133110
	Thallium	39.2	40.0	98	80 - 120	P	10/24/2024	13:30	LB133110
	Vanadium	35.8	40.0	89	80 - 120	P	10/24/2024	13:30	LB133110
	Zinc	45.9	40.0	115	80 - 120	P	10/24/2024	13:30	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	9660	10000	97	90 - 110	P	10/24/2024	14:06	LB133110
	Antimony	4980	5000	100	90 - 110	P	10/24/2024	14:06	LB133110
	Arsenic	4950	5000	99	90 - 110	P	10/24/2024	14:06	LB133110
	Barium	9460	10000	95	90 - 110	P	10/24/2024	14:06	LB133110
	Beryllium	238	250	95	90 - 110	P	10/24/2024	14:06	LB133110
	Cadmium	2440	2500	97	90 - 110	P	10/24/2024	14:06	LB133110
	Calcium	23800	25000	95	90 - 110	P	10/24/2024	14:06	LB133110
	Chromium	968	1000	97	90 - 110	P	10/24/2024	14:06	LB133110
	Cobalt	2440	2500	98	90 - 110	P	10/24/2024	14:06	LB133110
	Copper	1250	1250	100	90 - 110	P	10/24/2024	14:06	LB133110
	Iron	4960	5000	99	90 - 110	P	10/24/2024	14:06	LB133110
	Lead	4900	5000	98	90 - 110	P	10/24/2024	14:06	LB133110
	Magnesium	25700	25000	103	90 - 110	P	10/24/2024	14:06	LB133110
	Manganese	2350	2500	94	90 - 110	P	10/24/2024	14:06	LB133110
	Nickel	2450	2500	98	90 - 110	P	10/24/2024	14:06	LB133110
	Potassium	24900	25000	100	90 - 110	P	10/24/2024	14:06	LB133110
	Selenium	5000	5000	100	90 - 110	P	10/24/2024	14:06	LB133110
	Silver	1250	1250	100	90 - 110	P	10/24/2024	14:06	LB133110
	Sodium	24600	25000	98	90 - 110	P	10/24/2024	14:06	LB133110
	Thallium	4850	5000	97	90 - 110	P	10/24/2024	14:06	LB133110
	Vanadium	2330	2500	93	90 - 110	P	10/24/2024	14:06	LB133110
	Zinc	2520	2500	101	90 - 110	P	10/24/2024	14:06	LB133110
CCV02	Aluminum	9760	10000	98	90 - 110	P	10/24/2024	14:53	LB133110
	Antimony	4950	5000	99	90 - 110	P	10/24/2024	14:53	LB133110
	Arsenic	4890	5000	98	90 - 110	P	10/24/2024	14:53	LB133110
	Barium	9450	10000	94	90 - 110	P	10/24/2024	14:53	LB133110
	Beryllium	234	250	94	90 - 110	P	10/24/2024	14:53	LB133110
	Cadmium	2410	2500	96	90 - 110	P	10/24/2024	14:53	LB133110
	Calcium	23900	25000	96	90 - 110	P	10/24/2024	14:53	LB133110
	Chromium	959	1000	96	90 - 110	P	10/24/2024	14:53	LB133110
	Cobalt	2420	2500	97	90 - 110	P	10/24/2024	14:53	LB133110
	Copper	1240	1250	99	90 - 110	P	10/24/2024	14:53	LB133110
	Iron	4970	5000	99	90 - 110	P	10/24/2024	14:53	LB133110
	Lead	4860	5000	97	90 - 110	P	10/24/2024	14:53	LB133110

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	25600	25000	102	90 - 110	P	10/24/2024	14:53	LB133110
	Manganese	2340	2500	94	90 - 110	P	10/24/2024	14:53	LB133110
	Nickel	2430	2500	97	90 - 110	P	10/24/2024	14:53	LB133110
	Potassium	25000	25000	100	90 - 110	P	10/24/2024	14:53	LB133110
	Selenium	4950	5000	99	90 - 110	P	10/24/2024	14:53	LB133110
	Silver	1240	1250	99	90 - 110	P	10/24/2024	14:53	LB133110
	Sodium	24600	25000	98	90 - 110	P	10/24/2024	14:53	LB133110
	Thallium	4800	5000	96	90 - 110	P	10/24/2024	14:53	LB133110
	Vanadium	2320	2500	93	90 - 110	P	10/24/2024	14:53	LB133110
	Zinc	2510	2500	100	90 - 110	P	10/24/2024	14:53	LB133110
CCV03	Aluminum	9500	10000	95	90 - 110	P	10/24/2024	15:06	LB133110
	Antimony	4930	5000	99	90 - 110	P	10/24/2024	15:06	LB133110
	Arsenic	4880	5000	98	90 - 110	P	10/24/2024	15:06	LB133110
	Barium	9310	10000	93	90 - 110	P	10/24/2024	15:06	LB133110
	Beryllium	228	250	91	90 - 110	P	10/24/2024	15:06	LB133110
	Cadmium	2400	2500	96	90 - 110	P	10/24/2024	15:06	LB133110
	Calcium	23300	25000	93	90 - 110	P	10/24/2024	15:06	LB133110
	Chromium	961	1000	96	90 - 110	P	10/24/2024	15:06	LB133110
	Cobalt	2410	2500	96	90 - 110	P	10/24/2024	15:06	LB133110
	Copper	1230	1250	98	90 - 110	P	10/24/2024	15:06	LB133110
	Iron	5030	5000	101	90 - 110	P	10/24/2024	15:06	LB133110
	Lead	4830	5000	97	90 - 110	P	10/24/2024	15:06	LB133110
	Magnesium	25100	25000	100	90 - 110	P	10/24/2024	15:06	LB133110
	Manganese	2280	2500	91	90 - 110	P	10/24/2024	15:06	LB133110
	Nickel	2420	2500	97	90 - 110	P	10/24/2024	15:06	LB133110
	Potassium	25400	25000	102	90 - 110	P	10/24/2024	15:06	LB133110
	Selenium	4950	5000	99	90 - 110	P	10/24/2024	15:06	LB133110
	Silver	1240	1250	99	90 - 110	P	10/24/2024	15:06	LB133110
	Sodium	25200	25000	101	90 - 110	P	10/24/2024	15:06	LB133110
	Thallium	4880	5000	98	90 - 110	P	10/24/2024	15:06	LB133110
	Vanadium	2270	2500	91	90 - 110	P	10/24/2024	15:06	LB133110
	Zinc	2510	2500	100	90 - 110	P	10/24/2024	15:06	LB133110
CCV04	Aluminum	9870	10000	99	90 - 110	P	10/24/2024	15:58	LB133110
	Antimony	5100	5000	102	90 - 110	P	10/24/2024	15:58	LB133110

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	5050	5000	101	90 - 110	P	10/24/2024	15:58	LB133110
	Barium	9520	10000	95	90 - 110	P	10/24/2024	15:58	LB133110
	Beryllium	233	250	93	90 - 110	P	10/24/2024	15:58	LB133110
	Cadmium	2460	2500	98	90 - 110	P	10/24/2024	15:58	LB133110
	Calcium	23900	25000	96	90 - 110	P	10/24/2024	15:58	LB133110
	Chromium	966	1000	97	90 - 110	P	10/24/2024	15:58	LB133110
	Cobalt	2470	2500	99	90 - 110	P	10/24/2024	15:58	LB133110
	Copper	1270	1250	102	90 - 110	P	10/24/2024	15:58	LB133110
	Iron	4970	5000	100	90 - 110	P	10/24/2024	15:58	LB133110
	Lead	4960	5000	99	90 - 110	P	10/24/2024	15:58	LB133110
	Magnesium	22600	25000	90	90 - 110	P	10/24/2024	15:58	LB133110
	Manganese	2320	2500	93	90 - 110	P	10/24/2024	15:58	LB133110
	Nickel	2480	2500	99	90 - 110	P	10/24/2024	15:58	LB133110
	Potassium	25600	25000	102	90 - 110	P	10/24/2024	15:58	LB133110
	Selenium	5140	5000	103	90 - 110	P	10/24/2024	15:58	LB133110
	Silver	1260	1250	100	90 - 110	P	10/24/2024	15:58	LB133110
	Sodium	25300	25000	101	90 - 110	P	10/24/2024	15:58	LB133110
	Thallium	5000	5000	100	90 - 110	P	10/24/2024	15:58	LB133110
	Vanadium	2310	2500	92	90 - 110	P	10/24/2024	15:58	LB133110
	Zinc	2550	2500	102	90 - 110	P	10/24/2024	15:58	LB133110
CCV05	Aluminum	9590	10000	96	90 - 110	P	10/24/2024	16:55	LB133110
	Antimony	4920	5000	98	90 - 110	P	10/24/2024	16:55	LB133110
	Arsenic	4920	5000	98	90 - 110	P	10/24/2024	16:55	LB133110
	Barium	9440	10000	94	90 - 110	P	10/24/2024	16:55	LB133110
	Beryllium	236	250	94	90 - 110	P	10/24/2024	16:55	LB133110
	Cadmium	2400	2500	96	90 - 110	P	10/24/2024	16:55	LB133110
	Calcium	23400	25000	94	90 - 110	P	10/24/2024	16:55	LB133110
	Chromium	945	1000	94	90 - 110	P	10/24/2024	16:55	LB133110
	Cobalt	2410	2500	96	90 - 110	P	10/24/2024	16:55	LB133110
	Copper	1230	1250	98	90 - 110	P	10/24/2024	16:55	LB133110
	Iron	4690	5000	94	90 - 110	P	10/24/2024	16:55	LB133110
	Lead	4840	5000	97	90 - 110	P	10/24/2024	16:55	LB133110
	Magnesium	26700	25000	107	90 - 110	P	10/24/2024	16:55	LB133110
	Manganese	2360	2500	94	90 - 110	P	10/24/2024	16:55	LB133110

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	2420	2500	97	90 - 110	P	10/24/2024	16:55	LB133110
	Potassium	25500	25000	102	90 - 110	P	10/24/2024	16:55	LB133110
	Selenium	5040	5000	101	90 - 110	P	10/24/2024	16:55	LB133110
	Silver	1240	1250	99	90 - 110	P	10/24/2024	16:55	LB133110
	Sodium	24300	25000	97	90 - 110	P	10/24/2024	16:55	LB133110
	Thallium	5380	5000	108	90 - 110	P	10/24/2024	16:55	LB133110
	Vanadium	2570	2500	103	90 - 110	P	10/24/2024	16:55	LB133110
	Zinc	2470	2500	99	90 - 110	P	10/24/2024	16:55	LB133110
CCV06	Aluminum	9670	10000	97	90 - 110	P	10/24/2024	17:46	LB133110
	Antimony	5050	5000	101	90 - 110	P	10/24/2024	17:46	LB133110
	Arsenic	5050	5000	101	90 - 110	P	10/24/2024	17:46	LB133110
	Barium	9490	10000	95	90 - 110	P	10/24/2024	17:46	LB133110
	Beryllium	237	250	95	90 - 110	P	10/24/2024	17:46	LB133110
	Cadmium	2440	2500	98	90 - 110	P	10/24/2024	17:46	LB133110
	Calcium	23400	25000	94	90 - 110	P	10/24/2024	17:46	LB133110
	Chromium	944	1000	94	90 - 110	P	10/24/2024	17:46	LB133110
	Cobalt	2450	2500	98	90 - 110	P	10/24/2024	17:46	LB133110
	Copper	1260	1250	101	90 - 110	P	10/24/2024	17:46	LB133110
	Iron	4660	5000	93	90 - 110	P	10/24/2024	17:46	LB133110
	Lead	4920	5000	98	90 - 110	P	10/24/2024	17:46	LB133110
	Magnesium	24800	25000	99	90 - 110	P	10/24/2024	17:46	LB133110
	Manganese	2400	2500	96	90 - 110	P	10/24/2024	17:46	LB133110
	Nickel	2470	2500	99	90 - 110	P	10/24/2024	17:46	LB133110
	Potassium	25700	25000	103	90 - 110	P	10/24/2024	17:46	LB133110
	Selenium	5170	5000	103	90 - 110	P	10/24/2024	17:46	LB133110
	Silver	1240	1250	99	90 - 110	P	10/24/2024	17:46	LB133110
	Sodium	24700	25000	99	90 - 110	P	10/24/2024	17:46	LB133110
	Thallium	5400	5000	108	90 - 110	P	10/24/2024	17:46	LB133110
	Vanadium	2610	2500	104	90 - 110	P	10/24/2024	17:46	LB133110
	Zinc	2480	2500	99	90 - 110	P	10/24/2024	17:46	LB133110
CCV07	Aluminum	9420	10000	94	90 - 110	P	10/24/2024	18:37	LB133110
	Antimony	4950	5000	99	90 - 110	P	10/24/2024	18:37	LB133110
	Arsenic	4930	5000	99	90 - 110	P	10/24/2024	18:37	LB133110
	Barium	9240	10000	92	90 - 110	P	10/24/2024	18:37	LB133110

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	236	250	94	90 - 110	P	10/24/2024	18:37	LB133110
	Cadmium	2400	2500	96	90 - 110	P	10/24/2024	18:37	LB133110
	Calcium	23000	25000	92	90 - 110	P	10/24/2024	18:37	LB133110
	Chromium	935	1000	94	90 - 110	P	10/24/2024	18:37	LB133110
	Cobalt	2410	2500	96	90 - 110	P	10/24/2024	18:37	LB133110
	Copper	1230	1250	99	90 - 110	P	10/24/2024	18:37	LB133110
	Iron	4600	5000	92	90 - 110	P	10/24/2024	18:37	LB133110
	Lead	4840	5000	97	90 - 110	P	10/24/2024	18:37	LB133110
	Magnesium	24600	25000	98	90 - 110	P	10/24/2024	18:37	LB133110
	Manganese	2380	2500	95	90 - 110	P	10/24/2024	18:37	LB133110
	Nickel	2430	2500	97	90 - 110	P	10/24/2024	18:37	LB133110
	Potassium	25600	25000	102	90 - 110	P	10/24/2024	18:37	LB133110
	Selenium	5050	5000	101	90 - 110	P	10/24/2024	18:37	LB133110
	Silver	1230	1250	98	90 - 110	P	10/24/2024	18:37	LB133110
	Sodium	24400	25000	98	90 - 110	P	10/24/2024	18:37	LB133110
	Thallium	5340	5000	107	90 - 110	P	10/24/2024	18:37	LB133110
	Vanadium	2560	2500	102	90 - 110	P	10/24/2024	18:37	LB133110
	Zinc	2470	2500	99	90 - 110	P	10/24/2024	18:37	LB133110
CCV08	Aluminum	9530	10000	95	90 - 110	P	10/24/2024	19:32	LB133110
	Antimony	5020	5000	100	90 - 110	P	10/24/2024	19:32	LB133110
	Arsenic	4960	5000	99	90 - 110	P	10/24/2024	19:32	LB133110
	Barium	9320	10000	93	90 - 110	P	10/24/2024	19:32	LB133110
	Beryllium	245	250	98	90 - 110	P	10/24/2024	19:32	LB133110
	Cadmium	2400	2500	96	90 - 110	P	10/24/2024	19:32	LB133110
	Calcium	23200	25000	93	90 - 110	P	10/24/2024	19:32	LB133110
	Chromium	947	1000	95	90 - 110	P	10/24/2024	19:32	LB133110
	Cobalt	2420	2500	97	90 - 110	P	10/24/2024	19:32	LB133110
	Copper	1240	1250	99	90 - 110	P	10/24/2024	19:32	LB133110
	Iron	4760	5000	95	90 - 110	P	10/24/2024	19:32	LB133110
	Lead	4860	5000	97	90 - 110	P	10/24/2024	19:32	LB133110
	Magnesium	25000	25000	100	90 - 110	P	10/24/2024	19:32	LB133110
	Manganese	2440	2500	98	90 - 110	P	10/24/2024	19:32	LB133110
	Nickel	2430	2500	97	90 - 110	P	10/24/2024	19:32	LB133110
	Potassium	27200	25000	109	90 - 110	P	10/24/2024	19:32	LB133110

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	5120	5000	102	90 - 110	P	10/24/2024	19:32	LB133110
	Silver	1260	1250	101	90 - 110	P	10/24/2024	19:32	LB133110
	Sodium	25300	25000	101	90 - 110	P	10/24/2024	19:32	LB133110
	Thallium	5330	5000	107	90 - 110	P	10/24/2024	19:32	LB133110
	Vanadium	2610	2500	105	90 - 110	P	10/24/2024	19:32	LB133110
	Zinc	2530	2500	101	90 - 110	P	10/24/2024	19:32	LB133110
CCV09	Aluminum	9530	10000	95	90 - 110	P	10/24/2024	20:31	LB133110
	Antimony	4960	5000	99	90 - 110	P	10/24/2024	20:31	LB133110
	Arsenic	4950	5000	99	90 - 110	P	10/24/2024	20:31	LB133110
	Barium	9150	10000	92	90 - 110	P	10/24/2024	20:31	LB133110
	Beryllium	238	250	95	90 - 110	P	10/24/2024	20:31	LB133110
	Cadmium	2380	2500	95	90 - 110	P	10/24/2024	20:31	LB133110
	Calcium	22800	25000	91	90 - 110	P	10/24/2024	20:31	LB133110
	Chromium	920	1000	92	90 - 110	P	10/24/2024	20:31	LB133110
	Cobalt	2390	2500	96	90 - 110	P	10/24/2024	20:31	LB133110
	Copper	1230	1250	98	90 - 110	P	10/24/2024	20:31	LB133110
	Iron	4550	5000	91	90 - 110	P	10/24/2024	20:31	LB133110
	Lead	4810	5000	96	90 - 110	P	10/24/2024	20:31	LB133110
	Magnesium	24700	25000	99	90 - 110	P	10/24/2024	20:31	LB133110
	Manganese	2420	2500	97	90 - 110	P	10/24/2024	20:31	LB133110
	Nickel	2410	2500	96	90 - 110	P	10/24/2024	20:31	LB133110
	Potassium	25500	25000	102	90 - 110	P	10/24/2024	20:31	LB133110
	Selenium	5090	5000	102	90 - 110	P	10/24/2024	20:31	LB133110
	Silver	1220	1250	98	90 - 110	P	10/24/2024	20:31	LB133110
	Sodium	23000	25000	92	90 - 110	P	10/24/2024	20:31	LB133110
	Thallium	5280	5000	106	90 - 110	P	10/24/2024	20:31	LB133110
	Vanadium	2690	2500	108	90 - 110	P	10/24/2024	20:31	LB133110
	Zinc	2450	2500	98	90 - 110	P	10/24/2024	20:31	LB133110
CCV10	Aluminum	9590	10000	96	90 - 110	P	10/24/2024	21:22	LB133110
	Antimony	5110	5000	102	90 - 110	P	10/24/2024	21:22	LB133110
	Arsenic	5070	5000	101	90 - 110	P	10/24/2024	21:22	LB133110
	Barium	9340	10000	93	90 - 110	P	10/24/2024	21:22	LB133110
	Beryllium	241	250	96	90 - 110	P	10/24/2024	21:22	LB133110
	Cadmium	2460	2500	98	90 - 110	P	10/24/2024	21:22	LB133110

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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
CCV10	Calcium	23300	25000	93	90 - 110	P	10/24/2024	21:22	LB133110
	Chromium	943	1000	94	90 - 110	P	10/24/2024	21:22	LB133110
	Cobalt	2470	2500	99	90 - 110	P	10/24/2024	21:22	LB133110
	Copper	1260	1250	101	90 - 110	P	10/24/2024	21:22	LB133110
	Iron	4630	5000	93	90 - 110	P	10/24/2024	21:22	LB133110
	Lead	4950	5000	99	90 - 110	P	10/24/2024	21:22	LB133110
	Magnesium	25400	25000	102	90 - 110	P	10/24/2024	21:22	LB133110
	Manganese	2480	2500	99	90 - 110	P	10/24/2024	21:22	LB133110
	Nickel	2490	2500	99	90 - 110	P	10/24/2024	21:22	LB133110
	Potassium	26100	25000	104	90 - 110	P	10/24/2024	21:22	LB133110
	Selenium	5190	5000	104	90 - 110	P	10/24/2024	21:22	LB133110
	Silver	1240	1250	99	90 - 110	P	10/24/2024	21:22	LB133110
	Sodium	23800	25000	95	90 - 110	P	10/24/2024	21:22	LB133110
	Thallium	5340	5000	107	90 - 110	P	10/24/2024	21:22	LB133110
	Vanadium	2670	2500	107	90 - 110	P	10/24/2024	21:22	LB133110
	Zinc	2510	2500	100	90 - 110	P	10/24/2024	21:22	LB133110
CCV11	Aluminum	10300	10000	103	90 - 110	P	10/24/2024	22:15	LB133110
	Antimony	5360	5000	107	90 - 110	P	10/24/2024	22:15	LB133110
	Arsenic	5320	5000	106	90 - 110	P	10/24/2024	22:15	LB133110
	Barium	10100	10000	101	90 - 110	P	10/24/2024	22:15	LB133110
	Beryllium	256	250	102	90 - 110	P	10/24/2024	22:15	LB133110
	Cadmium	2570	2500	103	90 - 110	P	10/24/2024	22:15	LB133110
	Calcium	25000	25000	100	90 - 110	P	10/24/2024	22:15	LB133110
	Chromium	995	1000	100	90 - 110	P	10/24/2024	22:15	LB133110
	Cobalt	2590	2500	103	90 - 110	P	10/24/2024	22:15	LB133110
	Copper	1330	1250	106	90 - 110	P	10/24/2024	22:15	LB133110
	Iron	4890	5000	98	90 - 110	P	10/24/2024	22:15	LB133110
	Lead	5170	5000	103	90 - 110	P	10/24/2024	22:15	LB133110
	Magnesium	23500	25000	94	90 - 110	P	10/24/2024	22:15	LB133110
	Manganese	2410	2500	96	90 - 110	P	10/24/2024	22:15	LB133110
	Nickel	2610	2500	104	90 - 110	P	10/24/2024	22:15	LB133110
	Potassium	25100	25000	100	90 - 110	P	10/24/2024	22:15	LB133110
	Selenium	5440	5000	109	90 - 110	P	10/24/2024	22:15	LB133110
	Silver	1300	1250	104	90 - 110	P	10/24/2024	22:15	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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
CCV11	Sodium	23100	25000	93	90 - 110	P	10/24/2024	22:15	LB133110
	Thallium	5040	5000	101	90 - 110	P	10/24/2024	22:15	LB133110
	Vanadium	2400	2500	96	90 - 110	P	10/24/2024	22:15	LB133110
	Zinc	2640	2500	106	90 - 110	P	10/24/2024	22:15	LB133110
CCV12	Aluminum	9530	10000	95	90 - 110	P	10/24/2024	23:09	LB133110
	Antimony	5030	5000	101	90 - 110	P	10/24/2024	23:09	LB133110
	Arsenic	4970	5000	100	90 - 110	P	10/24/2024	23:09	LB133110
	Barium	9220	10000	92	90 - 110	P	10/24/2024	23:09	LB133110
	Beryllium	237	250	95	90 - 110	P	10/24/2024	23:09	LB133110
	Cadmium	2400	2500	96	90 - 110	P	10/24/2024	23:09	LB133110
	Calcium	23100	25000	92	90 - 110	P	10/24/2024	23:09	LB133110
	Chromium	921	1000	92	90 - 110	P	10/24/2024	23:09	LB133110
	Cobalt	2410	2500	96	90 - 110	P	10/24/2024	23:09	LB133110
	Copper	1230	1250	99	90 - 110	P	10/24/2024	23:09	LB133110
	Iron	4550	5000	91	90 - 110	P	10/24/2024	23:09	LB133110
	Lead	4840	5000	97	90 - 110	P	10/24/2024	23:09	LB133110
	Magnesium	25400	25000	102	90 - 110	P	10/24/2024	23:09	LB133110
	Manganese	2480	2500	99	90 - 110	P	10/24/2024	23:09	LB133110
	Nickel	2430	2500	97	90 - 110	P	10/24/2024	23:09	LB133110
	Potassium	25600	25000	102	90 - 110	P	10/24/2024	23:09	LB133110
	Selenium	5120	5000	102	90 - 110	P	10/24/2024	23:09	LB133110
	Silver	1220	1250	98	90 - 110	P	10/24/2024	23:09	LB133110
	Sodium	23400	25000	94	90 - 110	P	10/24/2024	23:09	LB133110
	Thallium	5340	5000	107	90 - 110	P	10/24/2024	23:09	LB133110
	Vanadium	2640	2500	106	90 - 110	P	10/24/2024	23:09	LB133110
	Zinc	2470	2500	99	90 - 110	P	10/24/2024	23:09	LB133110
CCV13	Aluminum	9320	10000	93	90 - 110	P	10/24/2024	23:58	LB133110
	Antimony	4910	5000	98	90 - 110	P	10/24/2024	23:58	LB133110
	Arsenic	4850	5000	97	90 - 110	P	10/24/2024	23:58	LB133110
	Barium	9180	10000	92	90 - 110	P	10/24/2024	23:58	LB133110
	Beryllium	228	250	91	90 - 110	P	10/24/2024	23:58	LB133110
	Cadmium	2300	2500	92	90 - 110	P	10/24/2024	23:58	LB133110
	Calcium	27200	25000	109	90 - 110	P	10/24/2024	23:58	LB133110
	Chromium	903	1000	90	90 - 110	P	10/24/2024	23:58	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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
CCV13	Cobalt	2320	2500	93	90 - 110	P	10/24/2024	23:58	LB133110
	Copper	1200	1250	96	90 - 110	P	10/24/2024	23:58	LB133110
	Iron	5460	5000	109	90 - 110	P	10/24/2024	23:58	LB133110
	Lead	4660	5000	93	90 - 110	P	10/24/2024	23:58	LB133110
	Magnesium	24500	25000	98	90 - 110	P	10/24/2024	23:58	LB133110
	Manganese	2670	2500	107	90 - 110	P	10/24/2024	23:58	LB133110
	Nickel	2340	2500	94	90 - 110	P	10/24/2024	23:58	LB133110
	Potassium	25300	25000	101	90 - 110	P	10/24/2024	23:58	LB133110
	Selenium	5010	5000	100	90 - 110	P	10/24/2024	23:58	LB133110
	Silver	1180	1250	95	90 - 110	P	10/24/2024	23:58	LB133110
	Sodium	23200	25000	93	90 - 110	P	10/24/2024	23:58	LB133110
	Thallium	5100	5000	102	90 - 110	P	10/24/2024	23:58	LB133110
	Vanadium	2670	2500	107	90 - 110	P	10/24/2024	23:58	LB133110
	Zinc	2400	2500	96	90 - 110	P	10/24/2024	23:58	LB133110
CCV14	Aluminum	9700	10000	97	90 - 110	P	10/25/2024	00:52	LB133110
	Antimony	5110	5000	102	90 - 110	P	10/25/2024	00:52	LB133110
	Arsenic	5070	5000	101	90 - 110	P	10/25/2024	00:52	LB133110
	Barium	9300	10000	93	90 - 110	P	10/25/2024	00:52	LB133110
	Beryllium	241	250	96	90 - 110	P	10/25/2024	00:52	LB133110
	Cadmium	2430	2500	97	90 - 110	P	10/25/2024	00:52	LB133110
	Calcium	23500	25000	94	90 - 110	P	10/25/2024	00:52	LB133110
	Chromium	927	1000	93	90 - 110	P	10/25/2024	00:52	LB133110
	Cobalt	2440	2500	98	90 - 110	P	10/25/2024	00:52	LB133110
	Copper	1260	1250	101	90 - 110	P	10/25/2024	00:52	LB133110
	Iron	4600	5000	92	90 - 110	P	10/25/2024	00:52	LB133110
	Lead	4900	5000	98	90 - 110	P	10/25/2024	00:52	LB133110
	Magnesium	25700	25000	103	90 - 110	P	10/25/2024	00:52	LB133110
	Manganese	2520	2500	101	90 - 110	P	10/25/2024	00:52	LB133110
	Nickel	2470	2500	99	90 - 110	P	10/25/2024	00:52	LB133110
	Potassium	25800	25000	103	90 - 110	P	10/25/2024	00:52	LB133110
	Selenium	5210	5000	104	90 - 110	P	10/25/2024	00:52	LB133110
	Silver	1230	1250	99	90 - 110	P	10/25/2024	00:52	LB133110
	Sodium	23200	25000	93	90 - 110	P	10/25/2024	00:52	LB133110
	Thallium	5410	5000	108	90 - 110	P	10/25/2024	00:52	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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
CCV14	Vanadium	2680	2500	107	90 - 110	P	10/25/2024	00:52	LB133110
	Zinc	2500	2500	100	90 - 110	P	10/25/2024	00:52	LB133110
CCV15	Aluminum	9430	10000	94	90 - 110	P	10/25/2024	01:45	LB133110
	Antimony	4920	5000	98	90 - 110	P	10/25/2024	01:45	LB133110
	Arsenic	4890	5000	98	90 - 110	P	10/25/2024	01:45	LB133110
	Barium	9100	10000	91	90 - 110	P	10/25/2024	01:45	LB133110
	Beryllium	238	250	95	90 - 110	P	10/25/2024	01:45	LB133110
	Cadmium	2390	2500	96	90 - 110	P	10/25/2024	01:45	LB133110
	Calcium	23000	25000	92	90 - 110	P	10/25/2024	01:45	LB133110
	Chromium	926	1000	93	90 - 110	P	10/25/2024	01:45	LB133110
	Cobalt	2390	2500	96	90 - 110	P	10/25/2024	01:45	LB133110
	Copper	1220	1250	98	90 - 110	P	10/25/2024	01:45	LB133110
	Iron	4510	5000	90	90 - 110	P	10/25/2024	01:45	LB133110
	Lead	4800	5000	96	90 - 110	P	10/25/2024	01:45	LB133110
	Magnesium	25400	25000	101	90 - 110	P	10/25/2024	01:45	LB133110
	Manganese	2470	2500	99	90 - 110	P	10/25/2024	01:45	LB133110
	Nickel	2420	2500	97	90 - 110	P	10/25/2024	01:45	LB133110
	Potassium	25200	25000	101	90 - 110	P	10/25/2024	01:45	LB133110
	Selenium	5000	5000	100	90 - 110	P	10/25/2024	01:45	LB133110
	Silver	1210	1250	97	90 - 110	P	10/25/2024	01:45	LB133110
	Sodium	22700	25000	91	90 - 110	P	10/25/2024	01:45	LB133110
	Thallium	5160	5000	103	90 - 110	P	10/25/2024	01:45	LB133110
	Vanadium	2640	2500	106	90 - 110	P	10/25/2024	01:45	LB133110
	Zinc	2440	2500	97	90 - 110	P	10/25/2024	01:45	LB133110
CCV16	Aluminum	9310	10000	93	90 - 110	P	10/25/2024	02:44	LB133110
	Antimony	4990	5000	100	90 - 110	P	10/25/2024	02:44	LB133110
	Arsenic	4970	5000	99	90 - 110	P	10/25/2024	02:44	LB133110
	Barium	9010	10000	90	90 - 110	P	10/25/2024	02:44	LB133110
	Beryllium	236	250	94	90 - 110	P	10/25/2024	02:44	LB133110
	Cadmium	2430	2500	97	90 - 110	P	10/25/2024	02:44	LB133110
	Calcium	22900	25000	91	90 - 110	P	10/25/2024	02:44	LB133110
	Chromium	913	1000	91	90 - 110	P	10/25/2024	02:44	LB133110
	Cobalt	2430	2500	97	90 - 110	P	10/25/2024	02:44	LB133110
	Copper	1230	1250	99	90 - 110	P	10/25/2024	02:44	LB133110

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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
CCV16	Iron	5000	5000	100	90 - 110	P	10/25/2024	02:44	LB133110
	Lead	4870	5000	97	90 - 110	P	10/25/2024	02:44	LB133110
	Magnesium	25400	25000	102	90 - 110	P	10/25/2024	02:44	LB133110
	Manganese	2720	2500	109	90 - 110	P	10/25/2024	02:44	LB133110
	Nickel	2460	2500	98	90 - 110	P	10/25/2024	02:44	LB133110
	Potassium	24700	25000	99	90 - 110	P	10/25/2024	02:44	LB133110
	Selenium	5070	5000	102	90 - 110	P	10/25/2024	02:44	LB133110
	Silver	1190	1250	96	90 - 110	P	10/25/2024	02:44	LB133110
	Sodium	22700	25000	91	90 - 110	P	10/25/2024	02:44	LB133110
	Thallium	5300	5000	106	90 - 110	P	10/25/2024	02:44	LB133110
	Vanadium	2740	2500	110	90 - 110	P	10/25/2024	02:44	LB133110
	Zinc	2410	2500	96	90 - 110	P	10/25/2024	02:44	LB133110

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	0.21	0.2	106	40 - 160	CV	10/22/2024	12:03	LB133043
CRI01	Aluminum	100	100	100	40 - 160	P	10/24/2024	13:38	LB133110
	Antimony	51.1	50.0	102	40 - 160	P	10/24/2024	13:38	LB133110
	Arsenic	19.7	20.0	98	40 - 160	P	10/24/2024	13:38	LB133110
	Barium	94.3	100	94	40 - 160	P	10/24/2024	13:38	LB133110
	Beryllium	5.58	6.0	93	40 - 160	P	10/24/2024	13:38	LB133110
	Cadmium	5.58	6.0	93	40 - 160	P	10/24/2024	13:38	LB133110
	Calcium	1920	2000	96	40 - 160	P	10/24/2024	13:38	LB133110
	Chromium	9.95	10.0	100	40 - 160	P	10/24/2024	13:38	LB133110
	Cobalt	29.3	30.0	98	40 - 160	P	10/24/2024	13:38	LB133110
	Copper	22.1	20.0	110	40 - 160	P	10/24/2024	13:38	LB133110
	Iron	102	100	102	40 - 160	P	10/24/2024	13:38	LB133110
	Lead	11.7	12.0	97	40 - 160	P	10/24/2024	13:38	LB133110
	Magnesium	1850	2000	93	40 - 160	P	10/24/2024	13:38	LB133110
	Manganese	19.3	20.0	96	40 - 160	P	10/24/2024	13:38	LB133110
	Nickel	38.8	40.0	97	40 - 160	P	10/24/2024	13:38	LB133110
	Potassium	1970	2000	98	40 - 160	P	10/24/2024	13:38	LB133110
	Selenium	17.8	20.0	89	40 - 160	P	10/24/2024	13:38	LB133110
	Silver	10.6	10.0	106	40 - 160	P	10/24/2024	13:38	LB133110
	Sodium	1860	2000	93	40 - 160	P	10/24/2024	13:38	LB133110
	Thallium	39.2	40.0	98	40 - 160	P	10/24/2024	13:38	LB133110
	Vanadium	34.7	40.0	87	40 - 160	P	10/24/2024	13:38	LB133110
	Zinc	44.4	40.0	111	40 - 160	P	10/24/2024	13:38	LB133110

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	245000	255000	96	216000	294000	10/24/2024	13:43	LB133110
	Antimony	0.022			-50	50	10/24/2024	13:43	LB133110
	Arsenic	4.95			-20	20	10/24/2024	13:43	LB133110
	Barium	3.29	6.0	55	-94	106	10/24/2024	13:43	LB133110
	Beryllium	1.29			-6	6	10/24/2024	13:43	LB133110
	Cadmium	3.37	1.0	337	-5	7	10/24/2024	13:43	LB133110
	Calcium	227000	245000	93	208000	282000	10/24/2024	13:43	LB133110
	Chromium	55.4	52.0	106	42	62	10/24/2024	13:43	LB133110
	Cobalt	2.27			-30	30	10/24/2024	13:43	LB133110
	Copper	8.59	2.0	430	-18	22	10/24/2024	13:43	LB133110
	Iron	101000	101000	100	85600	116500	10/24/2024	13:43	LB133110
	Lead	9.27			-12	12	10/24/2024	13:43	LB133110
	Magnesium	246000	255000	96	216000	294000	10/24/2024	13:43	LB133110
	Manganese	3.89	7.0	56	-13	27	10/24/2024	13:43	LB133110
	Nickel	2.59	2.0	130	-38	42	10/24/2024	13:43	LB133110
	Potassium	-36.7			0	0	10/24/2024	13:43	LB133110
	Selenium	-16.1			-20	20	10/24/2024	13:43	LB133110
	Silver	0.37			-10	10	10/24/2024	13:43	LB133110
	Sodium	4.15			0	0	10/24/2024	13:43	LB133110
	Thallium	3.67			-40	40	10/24/2024	13:43	LB133110
	Vanadium	5.91			-40	40	10/24/2024	13:43	LB133110
	Zinc	5.89			-40	40	10/24/2024	13:43	LB133110
ICSAB01	Aluminum	256000	247000	104	209000	285000	10/24/2024	13:54	LB133110
	Antimony	643	618	104	525	711	10/24/2024	13:54	LB133110
	Arsenic	111	104	107	88.4	120	10/24/2024	13:54	LB133110
	Barium	488	537	91	437	637	10/24/2024	13:54	LB133110
	Beryllium	482	495	97	420	570	10/24/2024	13:54	LB133110
	Cadmium	981	972	101	826	1120	10/24/2024	13:54	LB133110
	Calcium	232000	235000	99	199000	271000	10/24/2024	13:54	LB133110
	Chromium	565	542	104	460	624	10/24/2024	13:54	LB133110
	Cobalt	527	476	111	404	548	10/24/2024	13:54	LB133110
	Copper	518	511	101	434	588	10/24/2024	13:54	LB133110
	Iron	104000	99300	105	84400	114500	10/24/2024	13:54	LB133110
	Lead	57.7	49.0	118	37	61	10/24/2024	13:54	LB133110
	Magnesium	249000	248000	100	210000	286000	10/24/2024	13:54	LB133110
	Manganese	471	507	93	430	584	10/24/2024	13:54	LB133110
	Nickel	1040	954	109	810	1100	10/24/2024	13:54	LB133110
	Potassium	-31.8			0	0	10/24/2024	13:54	LB133110
	Selenium	35.0	46.0	76	26	66	10/24/2024	13:54	LB133110
	Silver	230	201	114	170	232	10/24/2024	13:54	LB133110
	Sodium	-3.02			0	0	10/24/2024	13:54	LB133110
	Thallium	99.3	108	92	68	148	10/24/2024	13:54	LB133110

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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	10/24/2024	13:54	LB133110
	Zinc	918	952	96	809	1095	10/24/2024	13:54	LB133110

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4471

contract: PORT06 **lab code:** CHEM **case no.:** P4471 **sas no.:** P4471

matrix: Solid **sample id:** P4443-01 **client id:** OG-315-HR-502-COMP-29MS

Percent Solids for Sample: 92 **Spiked ID:** P4443-01MS **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.46		0.14		0.27	118		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4471

contract: PORT06 **lab code:** CHEM **case no.:** P4471 **sas no.:** P4471

matrix: Solid **sample id:** P4443-01 **client id:** OG-315-HR-502-COMP-29MSD

Percent Solids for Sample: 92 **Spiked ID:** P4443-01MSD **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.47		0.14		0.28	114		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4471

contract: PORT06 **lab code:** CHEM **case no.:** P4471 **sas no.:** P4471

matrix: Solid **sample id:** P4470-01 **client id:** CL-01-102124MS

Percent Solids for Sample: 94.5 **Spiked ID:** P4470-01MS **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4760		4200		99.8	560		P
Antimony	mg/Kg	75 - 125	23.2		2.33	U	39.9	58	N	P
Arsenic	mg/Kg	75 - 125	32.7		0.98		39.9	80		P
Barium	mg/Kg	75 - 125	30.3		21.9		10.0	84		P
Beryllium	mg/Kg	75 - 125	7.98		0.30		10.0	77		P
Cadmium	mg/Kg	75 - 125	8.65		0.44		10.0	82		P
Calcium	mg/Kg	75 - 125	3700		7750		49.9	-8105		P
Chromium	mg/Kg	75 - 125	22.0		6.34		20.0	78		P
Cobalt	mg/Kg	75 - 125	14.1		4.76		10.0	93		P
Copper	mg/Kg	75 - 125	28.7		16.7		15.0	80		P
Iron	mg/Kg	75 - 125	10300		8350		150	1303		P
Lead	mg/Kg	75 - 125	46.9		5.72		49.9	82		P
Magnesium	mg/Kg	75 - 125	2590		5080		99.8	-2490		P
Manganese	mg/Kg	75 - 125	192		158		10.0	341		P
Nickel	mg/Kg	75 - 125	31.8		8.67		25.0	93		P
Potassium	mg/Kg	75 - 125	1010		541		500	93		P
Selenium	mg/Kg	75 - 125	76.9		0.93	U	99.8	77		P
Silver	mg/Kg	75 - 125	3.73		0.085	J	3.7	99		P
Sodium	mg/Kg	75 - 125	662		465		150	131	N	P
Thallium	mg/Kg	75 - 125	89.0		1.86	U	99.8	89		P
Vanadium	mg/Kg	75 - 125	30.4		15.8		15.0	97		P
Zinc	mg/Kg	75 - 125	26.3		17.5		10.0	88		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4471

contract: PORT06 **lab code:** CHEM **case no.:** P4471 **sas no.:** P4471

matrix: Solid **sample id:** P4470-01 **client id:** CL-01-102124MSD

Percent Solids for Sample: 94.5 **Spiked ID:** P4470-01MSD **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4490		4200		98.0	295		P
Antimony	mg/Kg	75 - 125	22.7		2.33	U	39.2	58	N	P
Arsenic	mg/Kg	75 - 125	32.0		0.98		39.2	79		P
Barium	mg/Kg	75 - 125	28.9		21.9		9.8	72	N	P
Beryllium	mg/Kg	75 - 125	7.63		0.30		9.8	75		P
Cadmium	mg/Kg	75 - 125	8.64		0.44		9.8	84		P
Calcium	mg/Kg	75 - 125	3490		7750		49.0	-8681		P
Chromium	mg/Kg	75 - 125	21.9		6.34		19.6	79		P
Cobalt	mg/Kg	75 - 125	14.0		4.76		9.8	94		P
Copper	mg/Kg	75 - 125	28.4		16.7		14.7	80		P
Iron	mg/Kg	75 - 125	10100		8350		150	1149		P
Lead	mg/Kg	75 - 125	46.5		5.72		49.0	83		P
Magnesium	mg/Kg	75 - 125	2460		5080		98.0	-2676		P
Manganese	mg/Kg	75 - 125	182		158		9.8	246		P
Nickel	mg/Kg	75 - 125	31.6		8.67		24.5	94		P
Potassium	mg/Kg	75 - 125	989		541		490	91		P
Selenium	mg/Kg	75 - 125	75.1		0.93	U	98.0	77		P
Silver	mg/Kg	75 - 125	3.64		0.085	J	3.7	96		P
Sodium	mg/Kg	75 - 125	544		465		150	53	N	P
Thallium	mg/Kg	75 - 125	89.4		1.86	U	98.0	91		P
Vanadium	mg/Kg	75 - 125	28.8		15.8		14.7	89		P
Zinc	mg/Kg	75 - 125	25.5		17.5		9.8	81		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Matrix: Solid **Level:** LOW **Client ID:** CL-01-102124A

Sample ID: P4470-01 **Spiked ID:** P4470-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	21.3		2.33	U	37.3	57		P
Barium	mg/Kg	75 - 125	27.4		21.9		9.30	59		P
Sodium	mg/Kg	75 - 125	492		465		140	20		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Matrix: Solid **Sample ID:** P4443-01 **Client ID:** OG-315-HR-502-COMP-29DUP

Percent Solids for Sample: 92 **Duplicate ID** P4443-01DUP **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.14		0.14		1		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.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Matrix: Solid **Sample ID:** P4443-01MS **Client ID:** OG-315-HR-502-COMP-29MSD

Percent Solids for Sample: 92 **Duplicate ID** P4443-01MSD **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.46		0.47		1		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.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Matrix: Solid **Sample ID:** P4470-01 **Client ID:** CL-01-102124DUP

Percent Solids for Sample: 94.5 **Duplicate ID** P4470-01DUP **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4200		4030		4		P
Antimony	mg/Kg	20	2.33	U	2.21	U			P
Arsenic	mg/Kg	20	0.98		0.92		6		P
Barium	mg/Kg	20	21.9		21.0		4		P
Beryllium	mg/Kg	20	0.30		0.29		4		P
Cadmium	mg/Kg	20	0.44		0.46		3		P
Calcium	mg/Kg	20	7750		7410		4		P
Chromium	mg/Kg	20	6.34		6.00		6		P
Cobalt	mg/Kg	20	4.76		4.60		3		P
Copper	mg/Kg	20	16.7		16.3		2		P
Iron	mg/Kg	20	8350		7770		7		P
Lead	mg/Kg	20	5.72		5.51		4		P
Magnesium	mg/Kg	20	5080		4900		4		P
Manganese	mg/Kg	20	158		153		3		P
Nickel	mg/Kg	20	8.67		8.37		4		P
Potassium	mg/Kg	20	541		506		7		P
Selenium	mg/Kg	20	0.93	U	0.89	U			P
Silver	mg/Kg	20	0.085	J	0.055	J	43		P
Sodium	mg/Kg	20	465		433		7		P
Thallium	mg/Kg	20	1.86	U	1.77	U			P
Vanadium	mg/Kg	20	15.8		15.3		3		P
Zinc	mg/Kg	20	17.5		16.5		6		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.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Matrix: Solid **Sample ID:** P4470-01MS **Client ID:** CL-01-102124MSD

Percent Solids for Sample: 94.5 **Duplicate ID** P4470-01MSD **Percent Solids for Spike Sample:** 94.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4760		4490		6		P
Antimony	mg/Kg	20	23.2		22.7		2		P
Arsenic	mg/Kg	20	32.7		32.0		2		P
Barium	mg/Kg	20	30.3		28.9		5		P
Beryllium	mg/Kg	20	7.98		7.63		4		P
Cadmium	mg/Kg	20	8.65		8.64		0		P
Calcium	mg/Kg	20	3700		3490		6		P
Chromium	mg/Kg	20	22.0		21.9		0		P
Cobalt	mg/Kg	20	14.1		14.0		1		P
Copper	mg/Kg	20	28.7		28.4		1		P
Iron	mg/Kg	20	10300		10100		2		P
Lead	mg/Kg	20	46.9		46.5		1		P
Magnesium	mg/Kg	20	2590		2460		5		P
Manganese	mg/Kg	20	192		182		5		P
Nickel	mg/Kg	20	31.8		31.6		1		P
Potassium	mg/Kg	20	1010		989		2		P
Selenium	mg/Kg	20	76.9		75.1		2		P
Silver	mg/Kg	20	3.73		3.64		2		P
Sodium	mg/Kg	20	662		544		20		P
Thallium	mg/Kg	20	89.0		89.4		0		P
Vanadium	mg/Kg	20	30.4		28.8		5		P
Zinc	mg/Kg	20	26.3		25.5		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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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164317BS							
Aluminum	mg/Kg	94.3	89.0		94	80 - 120	P
Antimony	mg/Kg	37.7	37.2		99	80 - 120	P
Arsenic	mg/Kg	37.7	35.2		93	80 - 120	P
Barium	mg/Kg	9.4	8.59		91	80 - 120	P
Beryllium	mg/Kg	9.4	9.14		97	80 - 120	P
Cadmium	mg/Kg	9.4	8.53		91	80 - 120	P
Calcium	mg/Kg	47.2	56.2	J	119	80 - 120	P
Chromium	mg/Kg	18.9	18.7		99	80 - 120	P
Cobalt	mg/Kg	9.4	9.21		98	80 - 120	P
Copper	mg/Kg	14.2	14.6		103	80 - 120	P
Iron	mg/Kg	140	165		118	80 - 120	P
Lead	mg/Kg	47.2	43.7		93	80 - 120	P
Magnesium	mg/Kg	94.3	97.6		104	80 - 120	P
Manganese	mg/Kg	9.4	10.8		115	80 - 120	P
Nickel	mg/Kg	23.6	23.4		99	80 - 120	P
Potassium	mg/Kg	470	485		103	80 - 120	P
Selenium	mg/Kg	94.3	90.7		96	80 - 120	P
Silver	mg/Kg	3.5	3.61		103	80 - 120	P
Sodium	mg/Kg	140	134		96	80 - 120	P
Thallium	mg/Kg	94.3	98.1		104	80 - 120	P
Vanadium	mg/Kg	14.2	15.6		110	80 - 120	P
Zinc	mg/Kg	9.4	9.81		104	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164322BS							
Mercury	mg/Kg	0.27	0.29		106	80 - 124	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

OG-315-HR-502-COMP-29L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133043 **Lab Sample ID :** P4443-01L **SDG No.:** P4471

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	0.14		0.11		27		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

CL-01-102124L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133110 **Lab Sample ID :** P4470-01L **SDG No.:** P4471

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	4200		4730		13		P
Antimony	2.33	U	11.7	U			P
Arsenic	0.98		1.43	J	46		P
Barium	21.9		24.9		14		P
Beryllium	0.30		0.38	J	25		P
Cadmium	0.44		0.24	J	46		P
Calcium	7750		9040		17		P
Chromium	6.34		7.47		18		P
Cobalt	4.76		4.98	J	5		P
Copper	16.7		20.6		23		P
Iron	8350		9440		13		P
Lead	5.72		6.15		8		P
Magnesium	5080		5760		13		P
Manganese	158		189		20		P
Nickel	8.67		9.15	J	6		P
Potassium	541		579		7		P
Selenium	0.93	U	4.66	U			P
Silver	0.085	J	2.33	U	100.0		P
Sodium	465		491		6		P
Thallium	1.86	U	9.32	U			P
Vanadium	15.8		18.3		16		P
Zinc	17.5		20.0		14		P

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4471 **Sas no.:** P4471 **Sdg no.:** P4471

Instrument id number: **Method:** **Run number:** LB133043

Start date: 10/22/2024 **End date:** 10/22/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1134	HG
S0.2	S0.2	1	1137	HG
S2.5	S2.5	1	1139	HG
S5	S5	1	1141	HG
S7.5	S7.5	1	1144	HG
S10	S10	1	1151	HG
ICV47	ICV47	1	1154	HG
ICB47	ICB47	1	1157	HG
CCV52	CCV52	1	1159	HG
CCB52	CCB52	1	1201	HG
CRA	CRA	1	1203	HG
PB164322BL	PB164322BL	1	1213	HG
PB164322BS	PB164322BS	1	1215	HG
P4443-01DUP	OG-315-HR-502-COMP-29DUP	1	1232	HG
P4443-01MS	OG-315-HR-502-COMP-29MS	1	1234	HG
CCV53	CCV53	1	1236	HG
CCB53	CCB53	1	1239	HG
P4443-01MSD	OG-315-HR-502-COMP-29MSI	1	1241	HG
CCV54	CCV54	1	1304	HG
CCB54	CCB54	1	1307	HG
P4471-01	B-180-SB01	1	1313	HG
P4471-02	B-180-SB02	1	1316	HG
P4443-01L	OG-315-HR-502-COMP-29L	5	1323	HG
CCV55	CCV55	1	1329	HG
CCB55	CCB55	1	1332	HG

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4471 **Sas no.:** P4471 **Sdg no.:** P4471

Instrument id number: **Method:** **Run number:** LB133110

Start date: 10/24/2024 **End date:** 10/25/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1214	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	1218	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	1223	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	1227	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	1231	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	1235	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	1326	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	1330	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	1334	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	1338	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	1343	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	1354	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	1406	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	1411	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	1453	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	1457	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	1506	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	1512	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	1558	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	1602	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	1655	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	1659	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1746	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	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4470-01DUP	CL-01-102124DUP	1	1800	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4470-01L	CL-01-102124L	5	1804	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4471-01	B-180-SB01	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4471-02	B-180-SB02	1	1824	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	1837	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	1841	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164317BL	PB164317BL	1	1845	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	1932	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	1945	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	2031	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	2036	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2122	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	2128	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2215	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2220	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV12	CCV12	1	2309	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB12	CCB12	1	2313	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.:** P4471 **Sas no.:** P4471 **Sdg no.:** P4471

Instrument id number: **Method:** **Run number:** LB133110

Start date: 10/24/2024 **End date:** 10/25/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
P4470-01MS	CL-01-102124MS	1	2321	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4470-01MSD	CL-01-102124MSD	1	2325	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4470-01A	CL-01-102124A	1	2329	Ba,Na,Sb
PB164317BS	PB164317BS	1	2333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV13	CCV13	1	2358	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB13	CCB13	1	0002	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV14	CCV14	1	0052	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB14	CCB14	1	0056	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV15	CCV15	1	0145	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB15	CCB15	1	0150	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV16	CCV16	1	0244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB16	CCB16	1	0248	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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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

Alliance TECHNICAL GROUP
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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4471 **SAS No.:** P4471

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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LAB CHRONICLE

OrderID:	P4471	**OrderDate:**	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	**B-180-SB01**	**SOIL**			**10/19/24**			**10/21/24**
			Mercury	7471B		10/21/24	10/22/24	
			Metals ICP-TAL	6010D		10/22/24	10/24/24	
P4471-02	**B-180-SB02**	**SOIL**			**10/20/24**			**10/21/24**
			Mercury	7471B		10/21/24	10/22/24	
			Metals ICP-TAL	6010D		10/22/24	10/24/24	

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4471 **SAS No.:** P4471

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164317**						
P4470-01DUP	CL-01-102124DUP	DUP	SOLID	10/22/2024	2.39	100.0	94.50
P4470-01MS	CL-01-102124MS	MS	SOLID	10/22/2024	2.12	100.0	94.50
P4470-01MSD	CL-01-102124MSD	MSD	SOLID	10/22/2024	2.16	100.0	94.50
P4471-01	B-180-SB01	SAM	SOLID	10/22/2024	2.17	100.0	82.80
P4471-02	B-180-SB02	SAM	SOLID	10/22/2024	2.30	100.0	49.20
PB164317BL	PB164317BL	MB	SOLID	10/22/2024	2.12	100.0	100.00
PB164317BS	PB164317BS	LCS	SOLID	10/22/2024	2.12	100.0	100.00

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Fax : 908 789 8922

Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4471 **SAS No.:** P4471

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164322**						
P4443-01DUP	OG-315-HR-502-COMP-29DUP	DUP	SOLID	10/21/2024	0.56	35.0	92.00
P4443-01MS	OG-315-HR-502-COMP-29MS	MS	SOLID	10/21/2024	0.57	35.0	92.00
P4443-01MSD	OG-315-HR-502-COMP-29MSD	MSD	SOLID	10/21/2024	0.55	35.0	92.00
P4471-01	B-180-SB01	SAM	SOLID	10/21/2024	0.58	35.0	82.80
P4471-02	B-180-SB02	SAM	SOLID	10/21/2024	0.52	35.0	49.20
PB164322BL	PB164322BL	MB	SOLID	10/21/2024	0.57	35.0	100.00
PB164322BS	PB164322BS	LCS	SOLID	10/21/2024	0.52	35.0	100.00

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133043

Review By	jaswal	Review On	10/23/2024 11:18:07 PM
Supervise By	mohan	Supervise On	10/23/2024 11:20:31 PM

STD. NAME	STD REF.#
ICAL Standard	MP82839,MP82841,MP82842,MP82843,MP82844,MP82845
ICV Standard	MP82846
CCV Standard	MP82848
ICSA Standard	
CRI Standard	MP82850
LCS Standard	
Chk Standard	MP82847,MP82849,MP82851,MP82864

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/22/24 11:34		Mohan	OK
2	S0.2	S0.2	CAL2	10/22/24 11:37		Mohan	OK
3	S2.5	S2.5	CAL3	10/22/24 11:39		Mohan	OK
4	S5	S5	CAL4	10/22/24 11:41		Mohan	OK
5	S7.5	S7.5	CAL5	10/22/24 11:44		Mohan	OK
6	S10	S10	CAL6	10/22/24 11:51		Mohan	OK
7	ICV47	ICV47	ICV	10/22/24 11:54		Mohan	OK
8	ICB47	ICB47	ICB	10/22/24 11:57		Mohan	OK
9	CCV52	CCV52	CCV	10/22/24 11:59		Mohan	OK
10	CCB52	CCB52	CCB	10/22/24 12:01		Mohan	OK
11	CRA	CRA	CRDL	10/22/24 12:03		Mohan	OK
12	HighStd	HighStd	HIGH STD	10/22/24 12:06		Mohan	OK
13	ChkStd	ChkStd	SAM	10/22/24 12:08		Mohan	OK
14	PB164322BL	PB164322BL	MB	10/22/24 12:13		Mohan	OK
15	PB164322BS	PB164322BS	LCS	10/22/24 12:15		Mohan	OK
16	P3390-01	LOD-MDL-SOIL-01-Q	SAM	10/22/24 12:20		Mohan	OK
17	P3390-02	LOQ-SOIL-02-QT3-20	LCS	10/22/24 12:22	True Value - 0.014 = Recovery - 107%	Mohan	OK
18	P4443-01	OG-315-HR-502-COM	SAM	10/22/24 12:30		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133043

Review By	jaswal	Review On	10/23/2024 11:18:07 PM
Supervise By	mohan	Supervise On	10/23/2024 11:20:31 PM

STD. NAME	STD REF.#
ICAL Standard	MP82839,MP82841,MP82842,MP82843,MP82844,MP82845
ICV Standard	MP82846
CCV Standard	MP82848
ICSA Standard	
CRI Standard	MP82850
LCS Standard	
Chk Standard	MP82847,MP82849,MP82851,MP82864

19	P4443-01DUP	OG-315-HR-502-COM	DUP	10/22/24 12:32		Mohan	OK
20	P4443-01MS	OG-315-HR-502-COM	MS	10/22/24 12:34		Mohan	OK
21	CCV53	CCV53	CCV	10/22/24 12:36		Mohan	OK
22	CCB53	CCB53	CCB	10/22/24 12:39		Mohan	OK
23	P4443-01MSD	OG-315-HR-502-COM	MSD	10/22/24 12:41		Mohan	OK
24	P4443-06	OG-315-HR-502-COM	SAM	10/22/24 12:43		Mohan	OK
25	P4452-01	ETGI-285	SAM	10/22/24 12:46		Mohan	OK
26	P4455-01	SU-4-101824	SAM	10/22/24 12:48		Mohan	OK
27	P4458-01	280517	SAM	10/22/24 12:50		Mohan	OK
28	P4460-02	WB-303-TOP	SAM	10/22/24 12:53	Hg High	Mohan	Dilution
29	P4460-03	WB-303-BOT	SAM	10/22/24 12:55		Mohan	OK
30	P4467-01	TP-1	SAM	10/22/24 12:57		Mohan	OK
31	P4468-01	ETGI-331	SAM	10/22/24 13:00		Mohan	OK
32	P4468-03	ETGI-329	SAM	10/22/24 13:02		Mohan	OK
33	CCV54	CCV54	CCV	10/22/24 13:04		Mohan	OK
34	CCB54	CCB54	CCB	10/22/24 13:07		Mohan	OK
35	P4468-05	ETGI-345	SAM	10/22/24 13:09		Mohan	OK
36	P4470-01	CL-01-102124	SAM	10/22/24 13:11		Mohan	OK
37	P4471-01	B-180-SB01	SAM	10/22/24 13:13		Mohan	OK
38	P4471-02	B-180-SB02	SAM	10/22/24 13:16		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133043

Review By	jaswal	Review On	10/23/2024 11:18:07 PM
Supervise By	mohan	Supervise On	10/23/2024 11:20:31 PM

STD. NAME	STD REF.#
ICAL Standard	MP82839,MP82841,MP82842,MP82843,MP82844,MP82845
ICV Standard	MP82846
CCV Standard	MP82848
ICSA Standard	
CRI Standard	MP82850
LCS Standard	
Chk Standard	MP82847,MP82849,MP82851,MP82864

39	P4472-01	BP-F-28	SAM	10/22/24 13:18		Mohan	OK
40	P4472-05	BP-F-6	SAM	10/22/24 13:20		Mohan	OK
41	P4443-01L	OG-315-HR-502-COM	SD	10/22/24 13:23		Mohan	OK
42	P4443-01A	OG-315-HR-502-COM	PS	10/22/24 13:25		Mohan	OK
43	P4460-02DL	WB-303-TOPDL	SAM	10/22/24 13:27	10X for Hg	Mohan	Confirms
44	CCV55	CCV55	CCV	10/22/24 13:29		Mohan	OK
45	CCB55	CCB55	CCB	10/22/24 13:32		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	10/24/24 12:14		Kareem	OK
2	S1	S1	CAL2	10/24/24 12:18		Kareem	OK
3	S2	S2	CAL3	10/24/24 12:23		Kareem	OK
4	S3	S3	CAL4	10/24/24 12:27		Kareem	OK
5	S4	S4	CAL5	10/24/24 12:31		Kareem	OK
6	S5	S5	CAL6	10/24/24 12:35		Kareem	OK
7	ICV01	ICV01	ICV	10/24/24 13:26		Kareem	OK
8	LLICV01	LLICV01	LLICV	10/24/24 13:30		Kareem	OK
9	ICB01	ICB01	ICB	10/24/24 13:34		Kareem	OK
10	CRI01	CRI01	CRDL	10/24/24 13:38		Kareem	OK
11	ICSA01	ICSA01	ICSA	10/24/24 13:43		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	10/24/24 13:54		Kareem	OK
13	ICSADL	ICSADL	ICSA	10/24/24 13:58		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	10/24/24 14:02		Kareem	OK
15	CCV01	CCV01	CCV	10/24/24 14:06		Kareem	OK
16	CCB01	CCB01	CCB	10/24/24 14:11		Kareem	OK
17	P4460-03	WB-303-BOT	SAM	10/24/24 14:15	NOT USE	Kareem	Not Ok
18	P4460-03DUP	WB-303-BOTDUP	DUP	10/24/24 14:19	NOT USE	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

19	P4460-03L	WB-303-BOTL	SD	10/24/24 14:23	NOT USE	Kareem	Not Ok
20	P4460-03MS	WB-303-BOTMS	MS	10/24/24 14:28	NOT USE	Kareem	Not Ok
21	P4460-03MSD	WB-303-BOTMSD	MSD	10/24/24 14:32	NOT USE	Kareem	Not Ok
22	P4460-03A	WB-303-BOTA	PS	10/24/24 14:36	NOT USE	Kareem	Not Ok
23	P4473-01	TS-1	SAM	10/24/24 14:40		Kareem	OK
24	P4474-01	TS-2	SAM	10/24/24 14:44		Kareem	OK
25	P4486-01	EO-03-102224	SAM	10/24/24 14:49		Kareem	OK
26	CCV02	CCV02	CCV	10/24/24 14:53		Kareem	OK
27	CCB02	CCB02	CCB	10/24/24 14:57		Kareem	OK
28	P4489-01	RT-2675	SAM	10/24/24 15:01		Kareem	OK
29	CCV03	CCV03	CCV	10/24/24 15:06		Kareem	OK
30	CCB03	CCB03	CCB	10/24/24 15:12		Kareem	OK
31	P4485-01	D20241001-01-04	SAM	10/24/24 15:16		Kareem	OK
32	P4486-01DUP	EO-03-102224DUP	DUP	10/24/24 15:21		Kareem	OK
33	P4486-01L	EO-03-102224L	SD	10/24/24 15:25		Kareem	OK
34	P4486-01MS	EO-03-102224MS	MS	10/24/24 15:29	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
35	P4486-01MSD	EO-03-102224MSD	MSD	10/24/24 15:33	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

36	P4486-01A	EO-03-102224A	PS	10/24/24 15:37	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
37	P4487-01	BP-B5	SAM	10/24/24 15:41		Kareem	OK
38	P4487-05	BP-F27	SAM	10/24/24 15:45		Kareem	OK
39	PB164320BL	PB164320BL	MB	10/24/24 15:49		Kareem	OK
40	PB164320BS	PB164320BS	LCS	10/24/24 15:54	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
41	CCV04	CCV04	CCV	10/24/24 15:58		Kareem	OK
42	CCB04	CCB04	CCB	10/24/24 16:02		Kareem	OK
43	LR1	LR1	HIGH STD	10/24/24 16:08		Kareem	OK
44	LR2	LR2	HIGH STD	10/24/24 16:13		Kareem	OK
45	P4467-04	TP-1	SAM	10/24/24 16:19		Kareem	OK
46	P4468-02	ETGI-331	SAM	10/24/24 16:24		Kareem	OK
47	P4468-04	ETGI-329	SAM	10/24/24 16:28		Kareem	OK
48	P4468-06	ETGI-345	SAM	10/24/24 16:33		Kareem	OK
49	P4472-04	BP-F-28	SAM	10/24/24 16:37		Kareem	OK
50	P4472-08	BP-F-6	SAM	10/24/24 16:42		Kareem	OK
51	P4472-08DUP	BP-F-6DUP	DUP	10/24/24 16:46		Kareem	OK
52	P4472-08L	BP-F-6L	SD	10/24/24 16:50		Kareem	OK
53	CCV05	CCV05	CCV	10/24/24 16:55		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

54	CCB05	CCB05	CCB	10/24/24 16:59		Kareem	OK
55	P4472-08MS	BP-F-6MS	MS	10/24/24 17:03		Kareem	OK
56	P4472-08MSD	BP-F-6MSD	MSD	10/24/24 17:08		Kareem	OK
57	P4472-08A	BP-F-6A	PS	10/24/24 17:12	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
58	PB164301TB	PB164301TB	MB	10/24/24 17:16		Kareem	OK
59	PB164319BL	PB164319BL	MB	10/24/24 17:21		Kareem	OK
60	PB164319BS	PB164319BS	LCS	10/24/24 17:25	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
61	P4467-01	TP-1	SAM	10/24/24 17:29		Kareem	OK
62	P4468-01	ETGI-331	SAM	10/24/24 17:33		Kareem	OK
63	P4468-03	ETGI-329	SAM	10/24/24 17:37		Kareem	OK
64	P4468-05	ETGI-345	SAM	10/24/24 17:41		Kareem	OK
65	CCV06	CCV06	CCV	10/24/24 17:46		Kareem	OK
66	CCB06	CCB06	CCB	10/24/24 17:50		Kareem	OK
67	P4470-01	CL-01-102124	SAM	10/24/24 17:56		Kareem	OK
68	P4470-01DUP	CL-01-102124DUP	DUP	10/24/24 18:00		Kareem	OK
69	P4470-01L	CL-01-102124L	SD	10/24/24 18:04		Kareem	OK
70	P4471-01	B-180-SB01	SAM	10/24/24 18:20		Kareem	OK
71	P4471-02	B-180-SB02	SAM	10/24/24 18:24		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

72	P4472-01	BP-F-28	SAM	10/24/24 18:28		Kareem	OK
73	P4472-05	BP-F-6	SAM	10/24/24 18:32		Kareem	OK
74	CCV07	CCV07	CCV	10/24/24 18:37		Kareem	OK
75	CCB07	CCB07	CCB	10/24/24 18:41		Kareem	OK
76	PB164317BL	PB164317BL	MB	10/24/24 18:45		Kareem	OK
77	P4423-02	COMP	SAM	10/24/24 18:55		Kareem	OK
78	P4460-06	WB-303-SW	SAM	10/24/24 19:00	Na (Oversaturated)	Kareem	Dilution
79	P4460-06DUP	WB-303-SWDUP	DUP	10/24/24 19:04	Na (Oversaturated)	Kareem	Dilution
80	P4460-06L	WB-303-SWL	SD	10/24/24 19:09	Na high	Kareem	Dilution
81	P4460-06MS	WB-303-SWMS	MS	10/24/24 19:14	Na (Oversaturated), 0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	Dilution
82	P4460-06MSD	WB-303-SWMSD	MSD	10/24/24 19:19	Na (Oversaturated), 0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	Dilution
83	P4460-06A	WB-303-SWA	PS	10/24/24 19:23	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
84	P4485-03	D20241001-02-03	SAM	10/24/24 19:28		Kareem	OK
85	CCV08	CCV08	CCV	10/24/24 19:32		Kareem	OK
86	CCB08	CCB08	CCB	10/24/24 19:45		Kareem	OK
87	PB164347BL	PB164347BL	MB	10/24/24 19:49		Kareem	OK
88	PB164347BSRE	PB164347BSRE	LCS	10/24/24 19:53	NOT USE	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

89	P4508-01	TP-3	SAM	10/24/24 19:57		Kareem	OK
90	P4508-05	BP-F23	SAM	10/24/24 20:01		Kareem	OK
91	P4508-09	BP-F22	SAM	10/24/24 20:06		Kareem	OK
92	P4509-01	AU-06-10232024	SAM	10/24/24 20:11		Kareem	OK
93	P4509-01DUP	AU-06-10232024DUP	DUP	10/24/24 20:15		Kareem	OK
94	P4509-01L	AU-06-10232024L	SD	10/24/24 20:19		Kareem	OK
95	P4509-01MS	AU-06-10232024MS	MS	10/24/24 20:23		Kareem	OK
96	P4509-01MSD	AU-06-10232024MSD	MSD	10/24/24 20:27		Kareem	OK
97	CCV09	CCV09	CCV	10/24/24 20:31		Kareem	OK
98	CCB09	CCB09	CCB	10/24/24 20:36		Kareem	OK
99	P4509-01A	AU-06-10232024A	PS	10/24/24 20:40	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
100	P4512-03	VNJ-212	SAM	10/24/24 20:44		Kareem	OK
101	P4515-01	CHVB0783	SAM	10/24/24 20:48		Kareem	OK
102	P4517-01	NASSAU-ST-CO	SAM	10/24/24 20:52		Kareem	OK
103	P4517-03	S.JEFFERSON-CO-1	SAM	10/24/24 20:57		Kareem	OK
104	P4517-05	S.JEFFERSON-CO-2	SAM	10/24/24 21:01		Kareem	OK
105	P4517-07	FOREST-ST-CO	SAM	10/24/24 21:05		Kareem	OK
106	PB164376BL	PB164376BL	MB	10/24/24 21:10		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

107	PB164376BS	PB164376BS	LCS	10/24/24 21:14	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
108	P3426-01	927-K1-WS-073124	SAM	10/24/24 21:18		Kareem	OK
109	CCV10	CCV10	CCV	10/24/24 21:22		Kareem	OK
110	CCB10	CCB10	CCB	10/24/24 21:28		Kareem	OK
111	P3426-02	927-K1-WS-073124-F	SAM	10/24/24 21:32		Kareem	OK
112	P3429-01	926-K1-WS-073124	SAM	10/24/24 21:36		Kareem	OK
113	P3429-02	931-K1-WS-073124	SAM	10/24/24 21:41		Kareem	OK
114	P3429-03	925-K1-WS-073124	SAM	10/24/24 21:45		Kareem	OK
115	P3451-01	921-J-WS-080124	SAM	10/24/24 21:49		Kareem	OK
116	P3457-01	924-K1-WS-080224	SAM	10/24/24 21:54		Kareem	OK
117	P3457-02	932-K1-WS-080224	SAM	10/24/24 21:58		Kareem	OK
118	P3467-01	919-J-WS-080224	SAM	10/24/24 22:03		Kareem	OK
119	P3596-01	918-J-WS-081324	SAM	10/24/24 22:07		Kareem	OK
120	P3596-02	918-J-WS-081324-FD	SAM	10/24/24 22:11		Kareem	OK
121	CCV11	CCV11	CCV	10/24/24 22:15		Kareem	OK
122	CCB11	CCB11	CCB	10/24/24 22:20		Kareem	OK
123	P3609-01	915-J-WS-081424	SAM	10/24/24 22:26		Kareem	OK
124	P3609-02	920-J-WS-081424	SAM	10/24/24 22:30		Kareem	OK
125	P3645-01	914-J-WS-081524	SAM	10/24/24 22:34		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

126	P3645-02	916-J-WS-081524	SAM	10/24/24 22:39		Kareem	OK
127	P3657-01	917-J-WS-081624	SAM	10/24/24 22:43		Kareem	OK
128	PB164372BL	PB164372BL	MB	10/24/24 22:47		Kareem	OK
129	PB164299TB	PB164299TB	MB	10/24/24 22:56		Kareem	OK
130	PB164299BL	PB164299BL	MB	10/24/24 23:00		Kareem	OK
131	PB164299BS	PB164299BS	LCS	10/24/24 23:05	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
132	CCV12	CCV12	CCV	10/24/24 23:09		Kareem	OK
133	CCB12	CCB12	CCB	10/24/24 23:13		Kareem	OK
134	PB164347BS	PB164347BS	LCS	10/24/24 23:17	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
135	P4470-01MS	CL-01-102124MS	MS	10/24/24 23:21	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
136	P4470-01MSD	CL-01-102124MSD	MSD	10/24/24 23:25	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
137	P4470-01A	CL-01-102124A	PS	10/24/24 23:29	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
138	PB164317BS	PB164317BS	LCS	10/24/24 23:33	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
139	PB164289BL	PB164289BL	MB	10/24/24 23:37		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

140	PB164289BS	PB164289BS	LCS	10/24/24 23:41	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
141	P3645-01DUP	914-J-WS-081524DUI	DUP	10/24/24 23:45		Kareem	OK
142	P3645-01L	914-J-WS-081524L	SD	10/24/24 23:50		Kareem	OK
143	P3645-01MS	914-J-WS-081524MS	MS	10/24/24 23:54	Si high	Kareem	Dilution
144	CCV13	CCV13	CCV	10/24/24 23:58		Kareem	OK
145	CCB13	CCB13	CCB	10/25/24 00:02		Kareem	OK
146	P3645-01MSD	914-J-WS-081524MS	MSD	10/25/24 00:10	Si high	Kareem	Dilution
147	P3645-01A	914-J-WS-081524A	PS	10/25/24 00:14	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
148	P4485-02	D20241001-01-04	SAM	10/25/24 00:18		Kareem	OK
149	P4485-02DUP	D20241001-01-04DUI	DUP	10/25/24 00:22		Kareem	OK
150	P4485-02L	D20241001-01-04L	SD	10/25/24 00:26		Kareem	OK
151	P4485-02MS	D20241001-01-04MS	MS	10/25/24 00:31	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
152	P4485-02MSD	D20241001-01-04MS	MSD	10/25/24 00:35	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
153	P4485-02A	D20241001-01-04A	PS	10/25/24 00:39	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
154	P4487-04	BP-B5	SAM	10/25/24 00:43		Kareem	OK
155	P4487-08	BP-B27	SAM	10/25/24 00:48		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

156	CCV14	CCV14	CCV	10/25/24 00:52		Kareem	OK
157	CCB14	CCB14	CCB	10/25/24 00:56		Kareem	OK
158	P4488-09DL	HCC-1DL	SAM	10/25/24 01:01	Straight 5x Dilution for all elements	Kareem	OK
159	P4488-10	HCC-2	SAM	10/25/24 01:06		Kareem	OK
160	P4508-04	TP-3	SAM	10/25/24 01:10		Kareem	OK
161	P4508-08	BP-F23	SAM	10/25/24 01:15		Kareem	OK
162	P4508-12	BP-F22	SAM	10/25/24 01:19		Kareem	OK
163	P4511-02	267	SAM	10/25/24 01:23		Kareem	OK
164	P4513-01	D3683	SAM	10/25/24 01:28		Kareem	OK
165	P4513-02	D3694	SAM	10/25/24 01:32		Kareem	OK
166	P4513-03	D3695	SAM	10/25/24 01:37		Kareem	OK
167	P4515-02	CHVB0783	SAM	10/25/24 01:41		Kareem	OK
168	CCV15	CCV15	CCV	10/25/24 01:45		Kareem	OK
169	CCB15	CCB15	CCB	10/25/24 01:50		Kareem	OK
170	PB164372BS	PB164372BS	LCS	10/25/24 01:54	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
171	P4516-01	72-11986	SAM	10/25/24 01:58		Kareem	OK
172	P4517-02	NASSAU-ST-CO	SAM	10/25/24 02:03		Kareem	OK
173	P4517-04	S.JEFFERSON-CO-1	SAM	10/25/24 02:07		Kareem	OK
174	P4517-06	S.JEFFERSON-CO-2	SAM	10/25/24 02:11		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133110

Review By	Review On
Supervise By	Supervise On

STD. NAME	STD REF.#
ICAL Standard	
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	

175	P4517-08	FOREST-ST-CO	SAM	10/25/24 02:16		Kareem	OK
176	PB164335TB	PB164335TB	MB	10/25/24 02:20		Kareem	OK
177	PB164377BL	PB164377BL	MB	10/25/24 02:25		Kareem	OK
178	PB164377BS	PB164377BS	LCS	10/25/24 02:29	0.1 ml of m6010 and m6001 were added to 10ml of sample	Kareem	OK
179	CCV16	CCV16	CCV	10/25/24 02:44		Kareem	OK
180	CCB16	CCB16	CCB	10/25/24 02:48		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164317

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: 10/22/2024 **Time :** 10:30 **Temp :** 95 °C

End Digest Date: 10/22/2024 **Time :** 12:35 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #5

Dig Technician Signature: jgp

Supervisor Signature:

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6000
LFS-2	1.00	M6009
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	MP81119
CONC: HNO3	5.00	M6093
30% H2O2	3.00	M5634
CONC: HCL	10.00	M6040
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: 95 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/22/24 12:45	jgp / Met dig	Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164317

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4467-01	TP-1	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	1
P4468-01	ETGI-331	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	2
P4468-03	ETGI-329	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	3
P4468-05	ETGI-345	N/A	2.35	100	Brown	Yellow	Medium	N/A	N/A	4
P4470-01	CL-01-102124	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	5
P4470-01MS	CL-01-102124MS	N/A	2.12	100	Brown	Yellow	Medium	N/A	M6000,M6009	7
P4470-01MSD	CL-01-102124MSD	N/A	2.16	100	Brown	Yellow	Medium	N/A	M6000,M6009	8
P4470-01DUP	CL-01-102124DUP	N/A	2.39	100	Brown	Yellow	Medium	N/A	N/A	6
P4471-01	B-180-SB01	N/A	2.17	100	Brown	Yellow	Medium	N/A	N/A	9
P4471-02	B-180-SB02	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	10
P4472-01	BP-F-28	N/A	2.18	100	Brown	Yellow	Medium	N/A	N/A	11
P4472-05	BP-F-6	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	12
PB164317BL	PBS317	N/A	2.12	100	Colorless	Colorless	Fine	N/A	N/A	13
PB164317BS	LCS317	N/A	2.12	100	Colorless	Colorless	Fine	N/A	M6000,M6009	14

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164322

SOP ID : M7471B-Mercury-18

SDG No : N/A

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #3

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 10/21/2024 **Time :** 16:20 **Temp :** 94 °C

End Digest Date: 10/21/2024 **Time :** 16:50 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP82846
CCV	30mL	MP82848
CRA	30mL	MP82850
Blank Spike	0.48mL	MP82838
Matrix Spike	0.48mL	MP82838

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP828352
KMnO4 (5%)	4.5mL	MP82652
Hydroxylamine HCL (12%)	2.0mL	MP82654
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	MP82839
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP82841
2.5 ppb	S2.5	30mL	MP82842
5.0 ppb	S5.0	30mL	MP82843
7.5 ppb	S7.5	30mL	MP82844
10.0 ppb	S10.0	30mL	MP82845
ICV	ICV	30mL	MP82846
ICB	ICB	30mL	MP82847
CCV	CCV	30mL	MP82848
CCB	CCB	30mL	MP82849
CRI	CRI	30mL	MP82850
CHK STD	CHK STD	30mL	MP82851

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24 @ 17:44	MB - Dig. Lab	MB - Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164322

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P3390-01	LOD-MDL-SOIL-01-QT3-2024	0.50	35	NA	N/A	3-1
P3390-02	LOQ-SOIL-02-QT3-2024	0.50	35	NA	N/A	2
P4443-01	OG-315-HR-502-COMP-29	0.58	35	NA	N/A	3
P4443-01DUP	OG-315-HR-502-COMP-29DUP	0.56	35	NA	N/A	4
P4443-01MS	OG-315-HR-502-COMP-29MS	0.57	35	NA	MP82828	5
P4443-01MSD	OG-315-HR-502-COMP-29MSD	0.55	35	NA	MP82828	6
P4443-06	OG-315-HR-502-COMP-30	0.54	35	NA	N/A	7
P4452-01	ETGI-285	0.60	35	NA	N/A	8
P4455-01	SU-4-101824	0.52	35	NA	N/A	9
P4458-01	280517	0.51	35	NA	N/A	10
P4460-02	WB-303-TOP	0.50	35	NA	N/A	11
P4460-03	WB-303-BOT	0.55	35	NA	N/A	12
P4467-01	TP-1	0.56	35	NA	N/A	13
P4468-01	ETGI-331	0.50	35	NA	N/A	14
P4468-03	ETGI-329	0.60	35	NA	N/A	15
P4468-05	ETGI-345	0.58	35	NA	N/A	16
P4470-01	CL-01-102124	0.51	35	NA	N/A	17
P4471-01	B-180-SB01	0.58	35	NA	N/A	18
P4471-02	B-180-SB02	0.52	35	NA	N/A	19
P4472-01	BP-F-28	0.60	35	NA	N/A	20
P4472-05	BP-F-6	0.60	35	NA	N/A	21
PB164322BL	PBS322	0.57	35	NA	N/A	22
PB164322BS	LCS322	0.52	35	NA	MP82828	23

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24 14:00
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
		% Solid:	82.8

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.094	U	1	0.094	0.48	mg/Kg	10/22/24 09:00	10/22/24 13:08	7196A
Trivalent Chromium	20.5		1	0.60	0.60	mg/Kg		10/24/24 18:20	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:	10/20/24 12:45
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
		% Solid:	49.2

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.16	U	1	0.16	0.80	mg/Kg	10/22/24 09:00	10/22/24 13:09	7196A
Trivalent Chromium	6.46		1	1.02	1.02	mg/Kg		10/24/24 18:24	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

QC RESULT SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4471
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133044

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	10/22/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	10/22/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	10/22/2024
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	10/22/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4471
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133044

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	10/22/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/22/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/22/2024
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	10/22/2024

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** P4471

Project: Amtrak Sawtooth Bridges 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB164266BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	10/22/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4471
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4460-03
Client ID: WB-303-BOTMS
Percent Solids for Spike Sample: 80.1

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	1450		0.098	U	1600	40	91		10/22/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4471
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4460-03
Client ID: WB-303-BOTMS
Percent Solids for Spike Sample: 80.1

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	46.7		0.098	U	49.9	2	94		10/22/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4471
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4460-03
Client ID: WB-303-BOTMS
Percent Solids for Spike Sample: 80.1

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	38.6		0.098	U	49.9	2	77		10/22/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4471
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4460-03
Client ID: WB-303-BOTDUP
Percent Solids for Spike Sample: 80.1

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.098	U	0.098	U	1	0		10/22/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4471
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB133044

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB164266BS								
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	10/22/2024

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133044

Review By	rubina	Review On	10/22/2024 1:21:12 PM
Supervise By	Iwona	Supervise On	10/24/2024 9:43:11 AM
SubDirectory	LB133044	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	WP110246,WP107791,WP107796,WP108645

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/22/24 12:40		rubina	OK
2	CAL2	CAL2	CAL	10/22/24 12:41		rubina	OK
3	CAL3	CAL3	CAL	10/22/24 12:42		rubina	OK
4	CAL4	CAL4	CAL	10/22/24 12:43		rubina	OK
5	CAL5	CAL5	CAL	10/22/24 12:44		rubina	OK
6	CAL6	CAL6	CAL	10/22/24 12:45		rubina	OK
7	CAL7	CAL7	CAL	10/22/24 12:46		rubina	OK
8	ICV	ICV	ICV	10/22/24 12:47		rubina	OK
9	ICB	ICB	ICB	10/22/24 12:48		rubina	OK
10	CCV1	CCV1	CCV	10/22/24 12:49		rubina	OK
11	CCB1	CCB1	CCB	10/22/24 12:50		rubina	OK
12	RL Check	RL Check	SAM	10/22/24 12:51		rubina	OK
13	PB164266BL	PB164266BL	MB	10/22/24 12:52		rubina	OK
14	PB164266BS	PB164266BS	LCS	10/22/24 12:53		rubina	OK
15	P4443-01	OG-315-HR-502-COM	SAM	10/22/24 12:54		rubina	OK
16	P4443-06	OG-315-HR-502-COM	SAM	10/22/24 12:55		rubina	OK
17	P4458-01	280517	SAM	10/22/24 12:56		rubina	OK
18	P4460-02	WB-303-TOP	SAM	10/22/24 12:57		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133044

Review By	rubina	Review On	10/22/2024 1:21:12 PM
Supervise By	Iwona	Supervise On	10/24/2024 9:43:11 AM
SubDirectory	LB133044	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	WP110246,WP107791,WP107796,WP108645

19	P4460-03	WB-303-BOT	SAM	10/22/24 12:58		rubina	OK
20	P4460-03DUP	WB-303-BOTDUP	DUP	10/22/24 12:59		rubina	OK
21	P4460-03MSPre	WB-303-BOTMS	MS	10/22/24 13:00		rubina	OK
22	P4460-03MS2Ins	WB-303-BOTMS	MS	10/22/24 13:01		rubina	OK
23	CCV2	CCV2	CCV	10/22/24 13:02		rubina	OK
24	CCB2	CCB2	CCB	10/22/24 13:03		rubina	OK
25	P4460-03MS3Post	WB-303-BOTMS	MS	10/22/24 13:04		rubina	OK
26	P4467-01	TP-1	SAM	10/22/24 13:05		rubina	OK
27	P4468-03	ETGI-329	SAM	10/22/24 13:06		rubina	OK
28	P4468-05	ETGI-345	SAM	10/22/24 13:07		rubina	OK
29	P4471-01	B-180-SB01	SAM	10/22/24 13:08		rubina	OK
30	P4471-02	B-180-SB02	SAM	10/22/24 13:09		rubina	OK
31	P4472-01	BP-F-28	SAM	10/22/24 13:10		rubina	OK
32	P4472-05	BP-F-6	SAM	10/22/24 13:11		rubina	OK
33	CCV3	CCV3	CCV	10/22/24 13:12		rubina	OK
34	CCB3	CCB3	CCB	10/22/24 13:13		rubina	OK

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

LAB CHRONICLE

OrderID:	P4471	**OrderDate:**	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	**B-180-SB01**	**SOIL**			**10/19/24 14:00**			**10/21/24**
			Hexavalent Chromium	7196A		10/22/24	10/22/24 13:08	
			Trivalent Chromium	6010D			10/24/24 18:20	
P4471-02	**B-180-SB02**	**SOIL**			**10/20/24 12:45**			**10/21/24**
			Hexavalent Chromium	7196A		10/22/24	10/22/24 13:09	
			Trivalent Chromium	6010D			10/24/24 18:24	

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164266

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A B C D E F

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Start Digest Date: 10/22/2024 **Time :** 09:00 **Temp :** 90 °C

Matrix : SOIL

End Digest Date: 10/22/2024 **Time :** 10:00 **Temp :** 94 °C

Pippete ID : WC

il batch 10/22/2024 10:15 90c JRM
10/22/2024 11:15 95c JRM

Balance ID : WC SC-4

Hood ID : HOOD#3 **Digestion tube ID :** M6054 **Block Thermometer ID :** WC-Block#1

Block ID : WC S-2, WC S-1 **Filter paper ID :** 400213 **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** WC pH meter-1 **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP108658
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP108658
LCSS	1.0ML	WP108659
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3001
PHOSPHATE BUFFER	0.5ML	WP108008
HEX. DIGESTION SOLN.	50.0ML	WP110092
5M HNO3	5-7ML	WP107796
5N H2SO4	1-3ML	WP107791
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	WP110336
CAL3	CAL3	0.5ML	WP110336
CAL4	CAL4	1ML	WP110336
CAL5	CAL5	0.2ML	WP108658
CAL6	CAL6	1ML	WP108658
CAL7	CAL7	2.0ML	WP108658
ICV	ICV	1ML	WP108659
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP108658
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments: 10/22/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164266

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4443-01	OG-315-HR-502-COMP-29	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4443-06	OG-315-HR-502-COMP-30	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4458-01	280517	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4460-02	WB-303-TOP	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4460-03	WB-303-BOT	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4460-03DUP	WB-303-BOTDUP	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4460-03MSPre	WB-303-BOTMSPRE	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4460-03MS2Ins	WB-303-BOTMS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4460-03MS3Post	WB-303-BOTMS3POST	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4467-01	TP-1	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4468-03	ETGI-329	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4468-05	ETGI-345	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4471-01	B-180-SB01	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4471-02	B-180-SB02	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
P4472-01	BP-F-28	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
P4472-05	BP-F-6	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164266BL	PBS266	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164266BS	LCS266	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P4471
COC Number 2042049

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: GANNETT FLEMING
ADDRESS: 1010 ADAMS AVENUE
CITY AUDOBON STATE: NJ ZIP: 19403
ATTENTION: JOE KRUPANSKY
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: AMTRAK'S REPLACEMENT OF SAWTOOTH BRIDGES
PROJECT NO.: 9500000878 LOCATION: KEARNY, NJ
PROJECT MANAGER: JOE KRUPANSKY
e-mail: QAQC@bemsys.com
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: CHEMTECH PO#:
ADDRESS: 284 SHEFFIELD ST
CITY MOUNTAINSIDE STATE: NJ ZIP: 07092
ATTENTION: SAMANTHA BEABLEY 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 DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT BEM EDD
- ☐ Level 4 (QC + Full Raw Data)
- ☑ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

ANALYSIS

1 TCL VOC+10
2 TCL PAH
3 PCBs
4 TAL METALS
5 EPH
6 CR (VI)
7 CR (III)
8
9

PRESERVATIVES

A

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-180-SB01	S		✓	10/19/24	200	4 VIALS 1 8 02	X	X	X	X	X	X	X			5
2.	B-180-SB02	S		✓	10/20/24	1245	4 VIALS 1 8 02	X	X	X	X	X	X	X			7
3.	TB100824	W			10/08/24	10/08/24	2	X									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	10/21/24 1240	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 23.0 °C
Comments: Fr. Cont #1

Page ____ of ____
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

To: jkrupansky@gfnet.com
Subject: P4471

Good afternoon,

Just informing you P4471 samples were received out of temp.

Best Regards,

Yazmeen Gomez
Sr. Project Manager, CHEMTECH Laboratory
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4471 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 10/21/2024 1:01:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 10/21/2024 12:40:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff : 10/21/2024 2:10:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4471-01	B-180-SB01	Solid	10/19/2024	14:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4471-02	B-180-SB02	Solid	10/20/2024	12:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4471-03	TB100824	Water	10/08/2024	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 10/24/24

Received By :
Date / Time : 10/25/24
Storage Area : VOA Refridgerator Room