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 : P4718

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group LLC

Client : Portal Partners Tri-Venture

Project Location : NJ

Project Number : 9500000878

Laboratory Sample ID(s) : P4718

Sampling Date(s) : 11/04/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,1030,1311,1311 ZHE, 6010D, 7196A, 7470A, 7471B, 8081B, 8082A, 8151A ,8260-Low, 8260D, 8270E, 9012B, 9034, 9045D, 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 : P4718

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
P4718-01	WB-307-SB01
P4718-02	WB-307-SB02
P4718-03	WB-307-SB02
P4718-04	WB-307-SW
P4718-05	TB-11042024

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 : N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:45 pm, Nov 21, 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 # P4718
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, 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 8260-Low,8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82N103024W.M) for Methyl Acetate, Acetone, Chloroethane, Chloromethane these compounds are passing on Linear Regression while, 1,4-Dichlorobenzene this compound is passing on Quadratic Regression.

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The Continuous Calibration File ID VY020221.D met the requirements except for Acetone and Styrene are failing high and associate sample having hit of acetone but below CRQL therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
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 <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:45 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP VOA.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

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 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 .
The Tuning criteria met requirements.

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

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

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:46 pm, Nov 21, 2024

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, 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 dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

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

The MS {P4718-02MS} with File ID: BF140272.D recoveries met the requirements for all compounds except for Atrazine[143%], Hexachlorocyclopentadiene[198%] these compounds did not meet the NJDKQP criteria and in-house criteria, due to matrix interference.

The MSD {P4718-02MSD} with File ID: BF140273.D recoveries met the acceptable requirements except for Atrazine[138%], Hexachlorocyclopentadiene[188%] due to matrix interference.

The RPD for {PB164846BSD} with File ID: BF140447.D met criteria except for 3,3-Dichlorobenzidine[22%], 4-Chloroaniline[37%], Atrazine[33%] and Benzaldehyde[200%] due to difference in results of BS and BSD.

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The Blank Spike for {PB164702BS} with File ID: BF140263.D met requirements for all samples except for 3-Nitroaniline[56%], 4-Chloroaniline[43%], Benzaldehyde[19%] these compounds did not meet the NJDKQP criteria but met the in-house criteria , while Hexachlorocyclopentadiene [200%] this compound did not meet the NJDKQP criteria and in-house criteria, are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {PB164846BS} with File ID: BF140446.D met requirements for all samples except for 3-Nitroaniline[67%], 4-Chloroaniline[65%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene [170%] this compound did not meet the NJDKQP criteria and in-house criteria, failing high but no positive hit in associate sample therefore no corrective action taken and Benzaldehyde [0%] this compound did not meet the NJDKQP criteria and in-house criteria, failing low but associate CCAL passing therefore no corrective action taken.

The Blank Spike Duplicate for {PB164846BSD} with File ID: BF140447.D met requirements for all samples except for 3,3-Dichlorobenzidine[62%], 3-Nitroaniline[57%], 4-Chloroaniline[45%], Benzaldehyde[14%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene [180%] this compound did not meet the NJDKQP criteria and in-house criteria, failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The % RSD is greater than 20% in the Initial Calibration (8270-BF110524.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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

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

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Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:53 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_E using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for
TP-14MS [2-Fluorophenol - 117%],
TP-14MSD [2,4,6-Tribromophenol - 112%, 2-Fluorophenol - 117%],
PB164694TB [2-Fluorophenol - 118%, Phenol-d6 - 111%],
PB164765BL [2,4,6-Tribromophenol - 122%] and
PB164765BS [2-Fluorophenol - 116%], these surrogate 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 MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .

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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 .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:53 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: PCB

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, 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_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank 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 soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

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By Nimisha Pandya, QA/QC Supervisor at 1:54 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Pesticide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

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:

F. Manual Integration Comments:

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Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:54 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Herbicide.

C. Analytical Techniques:
The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for WB-307-SB02 [2,4-DCAA(2) - 63%], WB-307-SB02MS [2,4-DCAA(2) - 56%], WB-307-SB02MSD [2 and4-DCAA(2) - 56%],PB164694TB [2,4-DCAA(2) - 57%],these compounds did not meet the NJDKQP criteria but met the in-house 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 .

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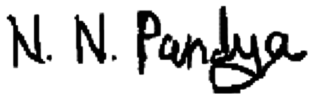
E. Additional Comments:

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

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

Signature 

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:54 pm, Nov 21, 2024

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

CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: EPH

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for EPH.

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .

The RPD for {P4718-01MSD} with File ID: FD048679.D met criteria except for Aromatic C12-C16[28.9%] due to difference in results of MS-MSD.

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

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E. Additional Comments:
The soil samples results are based on a dry weight basis.

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

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

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:55 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Metals ICP-TAL,Mercury.

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
Sample WB-307-SW was diluted due to high concentrations for Sodium.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (MIXED-DEMOMS) analysis met criteria for all samples except for Potassium and Sodium due to Chemical interference during Digestion Process. The Matrix Spike (WB-307-SWMS) analysis met criteria for all samples except for Aluminum, Antimony, Arsenic, Selenium, Silver and Zinc due to Chemical interference during Digestion Process.
The Matrix Spike Duplicate (MIXED-DEMOMSD) analysis met criteria for all samples except for Potassium and Sodium due to Chemical interference during Digestion Process.
The Matrix Spike Duplicate (WB-307-SWMSD) analysis met criteria for all samples except for Aluminum, Antimony, Arsenic, Selenium, Silver and Zinc 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 (WB-307-SWL) met criteria for all samples except for Aluminum Potassium and Zinc due to sample matrix interference.

E. Additional Comments:

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Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:55 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for TCLP Mercury,TCLP ICP Metals.

C. Analytical Techniques:
The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate (WB-307-SB02MSD) analysis met criteria for all samples except for Barium 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 the acceptable requirements.

E. Additional Comments:

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

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:55 pm, Nov 21, 2024

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: Hexavalent Chromium,Corrosivity,Trivalent Chromium,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium,Corrosivity,Trivalent Chromium,Ignitability,Reactive Cyanide,Reactive Sulfide.

C. Analytical Techniques:
The analysis of Ignitability was based on method 1030, The analysis of Trivalent Chromium was based on method 6010D, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034 and The analysis of Corrosivity was based on method 9045D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for WB-307-SB02 of Corrosivity as sample was receive out of holding time.
The Blank Spike met requirements for all samples.
The Duplicate (WC-3(0-6)DUP) analysis met criteria for all samples except for Reactive Cyanide due to results are below reporting limit.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

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

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 1:55 pm, Nov 21, 2024

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 #: P4718

	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:** 11/21/2024

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WB-307-SB01**							
P4718-01	WB-307-SB01	SOIL	Acetone	7.50	J	5.40	21.5	ug/Kg
P4718-01	WB-307-SB01	SOIL	Carbon Disulfide	3.50	J	1.10	4.30	ug/Kg
P4718-01	WB-307-SB01	SOIL	Methylene Chloride	4.30	J	2.90	8.60	ug/Kg
			Total Voc :	15.3				
			Total Concentration:	15.3				
Client ID:	**WB-307-SB02**							
P4718-02	WB-307-SB02	SOIL	Acetone	5.90	J	5.10	20.2	ug/Kg
P4718-02	WB-307-SB02	SOIL	Methylene Chloride	3.80	J	2.80	8.10	ug/Kg
			Total Voc :	9.70				
			Total Concentration:	9.70				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.40	U	1.40	4.30	ug/Kg
74-87-3	Chloromethane	1.00	U	1.00	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	4.30	ug/Kg
74-83-9	Bromomethane	0.89	U	0.89	4.30	ug/Kg
75-00-3	Chloroethane	0.87	U	0.87	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	0.78	U	0.78	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.92	U	0.92	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	0.67	U	0.67	4.30	ug/Kg
67-64-1	Acetone	7.50	J	5.40	21.5	ug/Kg
75-15-0	Carbon Disulfide	3.50	J	1.10	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.30	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.30	ug/Kg
75-09-2	Methylene Chloride	4.30	J	2.90	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.72	U	0.72	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.54	U	0.54	4.30	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	4.30	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.75	U	0.75	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.52	U	0.52	4.30	ug/Kg
74-97-5	Bromochloromethane	2.10	U	2.10	4.30	ug/Kg
67-66-3	Chloroform	0.58	U	0.58	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.67	U	0.67	4.30	ug/Kg
108-87-2	Methylcyclohexane	0.75	U	0.75	4.30	ug/Kg
71-43-2	Benzene	0.62	U	0.62	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.52	U	0.52	4.30	ug/Kg
79-01-6	Trichloroethene	0.64	U	0.64	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.57	U	0.57	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.48	U	0.48	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.70	U	3.70	21.5	ug/Kg
108-88-3	Toluene	0.58	U	0.58	4.30	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.72	U	0.72	4.30	ug/Kg
591-78-6	2-Hexanone	4.10	U	4.10	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.56	U	0.56	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	0.68	U	0.68	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.76	U	0.76	4.30	ug/Kg
108-90-7	Chlorobenzene	0.64	U	0.64	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	8.60	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	4.30	ug/Kg
100-42-5	Styrene	0.52	U	0.52	4.30	ug/Kg
75-25-2	Bromoform	0.70	U	0.70	4.30	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	0.95	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.64	U	0.64	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.69	U	0.69	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.51	U	0.51	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.68	U	0.68	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.67	U	0.67	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.7		70 (50) - 130 (163)	121%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (54) - 130 (147)	105%	SPK: 50
2037-26-5	Toluene-d8	49.3		70 (58) - 130 (134)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (29) - 130 (146)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	415000	8.615			
3114-55-4	Chlorobenzene-d5	375000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78
Sample Wt/Vol:	7.46 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
VY020233.D	1		11/08/24 15:12	VY110824

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.6
Sample Wt/Vol:	7.96 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
VY020234.D	1		11/08/24 15:35	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.30	U	1.30	4.00	ug/Kg
74-87-3	Chloromethane	0.94	U	0.94	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	4.00	ug/Kg
74-83-9	Bromomethane	0.83	U	0.83	4.00	ug/Kg
75-00-3	Chloroethane	0.82	U	0.82	4.00	ug/Kg
75-69-4	Trichlorofluoromethane	0.74	U	0.74	4.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.87	U	0.87	4.00	ug/Kg
75-35-4	1,1-Dichloroethene	0.63	U	0.63	4.00	ug/Kg
67-64-1	Acetone	5.90	J	5.10	20.2	ug/Kg
75-15-0	Carbon Disulfide	1.00	U	1.00	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.54	U	0.54	4.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	4.00	ug/Kg
75-09-2	Methylene Chloride	3.80	J	2.80	8.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.68	U	0.68	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.51	U	0.51	4.00	ug/Kg
110-82-7	Cyclohexane	0.56	U	0.56	4.00	ug/Kg
78-93-3	2-Butanone	4.60	U	4.60	20.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.70	U	0.70	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.49	U	0.49	4.00	ug/Kg
74-97-5	Bromochloromethane	2.00	U	2.00	4.00	ug/Kg
67-66-3	Chloroform	0.54	U	0.54	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	4.00	ug/Kg
108-87-2	Methylcyclohexane	0.70	U	0.70	4.00	ug/Kg
71-43-2	Benzene	0.58	U	0.58	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.49	U	0.49	4.00	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.53	U	0.53	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.45	U	0.45	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.50	U	3.50	20.2	ug/Kg
108-88-3	Toluene	0.54	U	0.54	4.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.6
Sample Wt/Vol:	7.96 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
VY020234.D	1		11/08/24 15:35	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	4.00	ug/Kg
591-78-6	2-Hexanone	3.90	U	3.90	20.2	ug/Kg
124-48-1	Dibromochloromethane	0.53	U	0.53	4.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.64	U	0.64	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.72	U	0.72	4.00	ug/Kg
108-90-7	Chlorobenzene	0.60	U	0.60	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.10	ug/Kg
95-47-6	o-Xylene	0.57	U	0.57	4.00	ug/Kg
100-42-5	Styrene	0.49	U	0.49	4.00	ug/Kg
75-25-2	Bromoform	0.66	U	0.66	4.00	ug/Kg
98-82-8	Isopropylbenzene	0.54	U	0.54	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.89	U	0.89	4.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.60	U	0.60	4.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.65	U	0.65	4.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.48	U	0.48	4.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.30	U	1.30	4.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.64	U	0.64	4.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	0.63	U	0.63	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	63.1		70 (50) - 130 (163)	126%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (54) - 130 (147)	104%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		70 (29) - 130 (146)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	428000	8.615			
3114-55-4	Chlorobenzene-d5	399000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.6
Sample Wt/Vol:	7.96 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
VY020234.D	1		11/08/24 15:35	VY110824

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	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
VN084853.D	1		11/14/24 15:47	VN111424

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	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
VN084853.D	1		11/14/24 15:47	VN111424

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	47.8		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	46.2		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		70 (77) - 130 (121)	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	8.218			
540-36-3	1,4-Difluorobenzene	345000	9.094			
3114-55-4	Chlorobenzene-d5	300000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	136000	13.788			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	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
VN084853.D	1		11/14/24 15:47	VN111424

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084851.D	1		11/14/24 14:59	VN111424

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084851.D	1		11/14/24 14:59	VN111424

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	48.2		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		70 (75) - 130 (124)	94%	SPK: 50
2037-26-5	Toluene-d8	46.0		70 (86) - 130 (113)	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	193000	8.218			
540-36-3	1,4-Difluorobenzene	336000	9.1			
3114-55-4	Chlorobenzene-d5	289000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.788			

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	TB-11042024	SDG No.:	P4718
Lab Sample ID:	P4718-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084851.D	1		11/14/24 14:59	VN111424

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

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Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4718-01	WB-307-SB01	1,2-Dichloroethane-d4	50	60.7	121	70 (50)	130 (163)
		Dibromofluoromethane	50	52.3	105	70 (54)	130 (147)
		Toluene-d8	50	49.3	99	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.0	94	70 (29)	130 (146)
P4718-02	WB-307-SB02	1,2-Dichloroethane-d4	50	63.1	126	70 (50)	130 (163)
		Dibromofluoromethane	50	51.8	104	70 (54)	130 (147)
		Toluene-d8	50	49.0	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	47.5	95	70 (29)	130 (146)
VY1108SBL01	VY1108SBL01	1,2-Dichloroethane-d4	50	55.5	111	70 (50)	130 (163)
		Dibromofluoromethane	50	50.6	101	70 (54)	130 (147)
		Toluene-d8	50	48.3	97	70 (58)	130 (134)
		4-Bromofluorobenzene	50	44.7	89	70 (29)	130 (146)
VY1108SBS01	VY1108SBS01	1,2-Dichloroethane-d4	50	50.8	102	70 (50)	130 (163)
		Dibromofluoromethane	50	49.9	100	70 (54)	130 (147)
		Toluene-d8	50	49.1	98	70 (58)	130 (134)
		4-Bromofluorobenzene	50	50.0	100	70 (29)	130 (146)
VY1108SBSD01	VY1108SBSD01	1,2-Dichloroethane-d4	50	57.8	116	70 (50)	130 (163)
		Dibromofluoromethane	50	55.4	111	70 (54)	130 (147)
		Toluene-d8	50	54.3	109	70 (58)	130 (134)
		4-Bromofluorobenzene	50	55.5	111	70 (29)	130 (146)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4718-04	WB-307-SW	1,2-Dichloroethane-d4	50	47.8	96	70 (74)	130 (125)
		Dibromofluoromethane	50	48.1	96	70 (75)	130 (124)
		Toluene-d8	50	46.2	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.2	92	70 (77)	130 (121)
P4718-05	TB-11042024	1,2-Dichloroethane-d4	50	48.2	96	70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94	70 (75)	130 (124)
		Toluene-d8	50	46.0	92	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.1	94	70 (77)	130 (121)
VN1114WBL01	VN1114WBL01	1,2-Dichloroethane-d4	50	51.0	102	70 (74)	130 (125)
		Dibromofluoromethane	50	52.0	104	70 (75)	130 (124)
		Toluene-d8	50	46.3	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.0	94	70 (77)	130 (121)
VN1114WBS02	VN1114WBS02	1,2-Dichloroethane-d4	50	46.6	93	70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102	70 (75)	130 (124)
		Toluene-d8	50	49.0	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.6	99	70 (77)	130 (121)
VN1114WBSD0	VN1114WBSD02	1,2-Dichloroethane-d4	50	49.6	99	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	102	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.4	103	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084846.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1114WBS02	Dichlorodifluoromethane	20	19.4	ug/L	97			40 (69)	160 (116)	
	Chloromethane	20	16.3	ug/L	81			40 (65)	160 (116)	
	Vinyl chloride	20	21.6	ug/L	108			70 (65)	130 (117)	
	Bromomethane	20	20.5	ug/L	103			40 (58)	160 (125)	
	Chloroethane	20	21.5	ug/L	108			40 (56)	160 (128)	
	Trichlorofluoromethane	20	19.9	ug/L	100			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/L	104			70 (80)	130 (112)	
	1,1-Dichloroethene	20	18.8	ug/L	94			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	17.3	ug/L	86			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.4	ug/L	102			70 (78)	130 (114)	
	Methyl Acetate	20	15.1	ug/L	76			70 (67)	130 (125)	
	Methylene Chloride	20	19.1	ug/L	96			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	19.0	ug/L	95			70 (75)	130 (108)	
	1,1-Dichloroethane	20	20.2	ug/L	101			70 (78)	130 (112)	
	Cyclohexane	20	19.1	ug/L	96			70 (75)	130 (110)	
	2-Butanone	100	98.4	ug/L	98			40 (65)	160 (122)	
	Carbon Tetrachloride	20	22.2	ug/L	111			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			70 (77)	130 (110)	
	Bromochloromethane	20	20.5	ug/L	103			70 (70)	130 (124)	
	Chloroform	20	20.2	ug/L	101			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	20.6	ug/L	103			70 (80)	130 (108)	
	Methylcyclohexane	20	22.5	ug/L	113			70 (72)	130 (115)	
	Benzene	20	20.6	ug/L	103			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.7	ug/L	104			70 (80)	130 (115)	
	Trichloroethene	20	21.2	ug/L	106			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.0	ug/L	105			70 (83)	130 (111)	
	Bromodichloromethane	20	20.5	ug/L	103			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	21.6	ug/L	108			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.6	ug/L	108			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	21.6	ug/L	108			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.1	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	
	Chlorobenzene	20	21.1	ug/L	106			70 (82)	130 (109)	
	Ethyl Benzene	20	21.4	ug/L	107			70 (83)	130 (109)	
	m/p-Xylenes	40	43.2	ug/L	108			70 (82)	130 (110)	
	o-Xylene	20	22.6	ug/L	113			70 (83)	130 (109)	
	Styrene	20	22.0	ug/L	110			70 (80)	130 (111)	
	Bromoform	20	20.9	ug/L	104			70 (79)	130 (109)	
	Isopropylbenzene	20	21.3	ug/L	106			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	19.3	ug/L	97			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.3	ug/L	102			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	19.3	ug/L	97			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084846.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1114WBS02	1,2-Dibromo-3-Chloropropane	20	18.0	ug/L	90			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	18.6	ug/L	93			70 (76)	130 (114)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084847.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1114WBSD02	Dichlorodifluoromethane	20	18.7	ug/L	94	3		40 (69)	160 (116)	20 (20)
	Chloromethane	20	16.7	ug/L	84	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	21.2	ug/L	106	2		70 (65)	130 (117)	20 (20)
	Bromomethane	20	20.8	ug/L	104	1		40 (58)	160 (125)	20 (20)
	Chloroethane	20	22.1	ug/L	111	3		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	19.5	ug/L	98	2		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100	4		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.5	ug/L	98	4		70 (74)	130 (110)	20 (20)
	Acetone	100	110	ug/L	110	10		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	17.2	ug/L	86	0		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.8	ug/L	109	7		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	16.8	ug/L	84	10		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	20.0	ug/L	100	4		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.1	ug/L	96	1		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.4	ug/L	102	1		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	18.7	ug/L	94	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	12		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	21.3	ug/L	106	5		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.4	ug/L	102	2		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.4	ug/L	112	8		70 (70)	130 (124)	20 (20)
	Chloroform	20	20.7	ug/L	104	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	20.8	ug/L	104	1		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	21.8	ug/L	109	4		70 (72)	130 (115)	20 (20)
	Benzene	20	20.3	ug/L	102	1		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.3	ug/L	106	2		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.8	ug/L	104	2		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	21.2	ug/L	106	1		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	21.1	ug/L	106	3		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		40 (74)	160 (118)	20 (20)
	Toluene	20	21.8	ug/L	109	1		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.6	ug/L	103	0		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	2		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	21.2	ug/L	106	2		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	22.2	ug/L	111	3		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.5	ug/L	108	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	21.9	ug/L	110	1		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	21.1	ug/L	106	0		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	21.4	ug/L	107	0		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	43.6	ug/L	109	1		70 (82)	130 (110)	20 (20)
	o-Xylene	20	22.2	ug/L	111	2		70 (83)	130 (109)	20 (20)
	Styrene	20	21.7	ug/L	109	1		70 (80)	130 (111)	20 (20)
	Bromoform	20	21.6	ug/L	108	4		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	21.8	ug/L	109	3		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104	7		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	19.4	ug/L	97	1		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.8	ug/L	104	2		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	19.4	ug/L	97	0		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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VN084847.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1114WBSD02	1,2-Dibromo-3-Chloropropane	20	19.0	ug/L	95	5		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	18.4	ug/L	92	2		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	18.0	ug/L	90	3		70 (76)	130 (114)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020223.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1108SBS01	Dichlorodifluoromethane	20	17.2	ug/Kg	86			40 (64)	160 (136)	
	Chloromethane	20	18.6	ug/Kg	93			40 (70)	160 (130)	
	Vinyl chloride	20	19.3	ug/Kg	97			70 (72)	130 (129)	
	Bromomethane	20	20.2	ug/Kg	101			40 (58)	160 (141)	
	Chloroethane	20	19.9	ug/Kg	100			40 (69)	160 (130)	
	Trichlorofluoromethane	20	21.4	ug/Kg	107			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			70 (79)	130 (121)	
	Acetone	100	100	ug/Kg	100			40 (60)	160 (131)	
	Carbon disulfide	20	17.1	ug/Kg	86			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	21.8	ug/Kg	109			70 (77)	130 (129)	
	Methyl Acetate	20	20.8	ug/Kg	104			70 (69)	130 (149)	
	Methylene Chloride	20	18.5	ug/Kg	93			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	20.1	ug/Kg	101			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.6	ug/Kg	103			70 (82)	130 (123)	
	Cyclohexane	20	18.5	ug/Kg	93			70 (76)	130 (122)	
	2-Butanone	100	100	ug/Kg	100			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.1	ug/Kg	101			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			70 (82)	130 (123)	
	Bromochloromethane	20	19.9	ug/Kg	100			70 (80)	130 (127)	
	Chloroform	20	21.1	ug/Kg	106			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106			70 (80)	130 (126)	
	Methylcyclohexane	20	18.5	ug/Kg	93			70 (77)	130 (123)	
	Benzene	20	19.8	ug/Kg	99			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			70 (81)	130 (126)	
	Trichloroethene	20	19.7	ug/Kg	99			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.5	ug/Kg	103			70 (83)	130 (122)	
	Bromodichloromethane	20	20.7	ug/Kg	104			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			40 (70)	160 (135)	
	Toluene	20	19.9	ug/Kg	100			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.5	ug/Kg	103			70 (82)	130 (125)	
	2-Hexanone	100	100	ug/Kg	100			40 (66)	160 (138)	
	Dibromochloromethane	20	20.7	ug/Kg	104			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.4	ug/Kg	102			70 (80)	130 (125)	
	Tetrachloroethene	20	20.5	ug/Kg	103			70 (83)	130 (125)	
	Chlorobenzene	20	20.1	ug/Kg	101			70 (84)	130 (122)	
	Ethyl Benzene	20	19.8	ug/Kg	99			70 (82)	130 (124)	
	m/p-Xylenes	40	40.6	ug/Kg	102			70 (83)	130 (124)	
	o-Xylene	20	20.0	ug/Kg	100			70 (83)	130 (123)	
	Styrene	20	20.7	ug/Kg	104			70 (82)	130 (124)	
	Bromoform	20	21.4	ug/Kg	107			70 (75)	130 (127)	
	Isopropylbenzene	20	20.6	ug/Kg	103			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/Kg	104			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.8	ug/Kg	104			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			70 (83)	130 (124)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020223.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1108SBS01	1,2-Dibromo-3-Chloropropane	20	21.5	ug/Kg	108			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	19.8	ug/Kg	99			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.2	ug/Kg	96			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1108SBSD01	Dichlorodifluoromethane	20	19.9	ug/Kg	100	15		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.8	ug/Kg	99	6		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	20.4	ug/Kg	102	5		70 (72)	130 (129)	30 (20)
	Bromomethane	20	21.2	ug/Kg	106	5		40 (58)	160 (141)	30 (20)
	Chloroethane	20	21.2	ug/Kg	106	6		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	22.6	ug/Kg	113	5		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108	5		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	21.1	ug/Kg	106	5		70 (79)	130 (121)	30 (20)
	Acetone	100	110	ug/Kg	110	10		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.0	ug/Kg	90	5		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	23.6	ug/Kg	118	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	24.5	ug/Kg	123	17		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.4	ug/Kg	102	9		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	20.3	ug/Kg	102	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	21.5	ug/Kg	108	5		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	19.1	ug/Kg	96	3		70 (76)	130 (122)	30 (20)
	2-Butanone	100	120	ug/Kg	120	18		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	21.0	ug/Kg	105	4		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106	3		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	17.7	ug/Kg	89	12		70 (80)	130 (127)	30 (20)
	Chloroform	20	21.9	ug/Kg	110	4		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108	2		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.7	ug/Kg	99	6		70 (77)	130 (123)	30 (20)
	Benzene	20	20.8	ug/Kg	104	5		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	22.5	ug/Kg	113	10		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	21.1	ug/Kg	106	7		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	21.9	ug/Kg	110	7		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	22.2	ug/Kg	111	7		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	18		40 (70)	160 (135)	30 (20)
	Toluene	20	21.4	ug/Kg	107	7		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	22.1	ug/Kg	111	10		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	21.7	ug/Kg	109	7		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	22.9	ug/Kg	115	11		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	120	ug/Kg	120	18		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	22.8	ug/Kg	114	9		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	22.5	ug/Kg	113	10		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	21.4	ug/Kg	107	4		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	21.5	ug/Kg	108	7		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	21.2	ug/Kg	106	7		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	42.5	ug/Kg	106	4		70 (83)	130 (124)	30 (20)
	o-Xylene	20	21.5	ug/Kg	108	8		70 (83)	130 (123)	30 (20)
	Styrene	20	21.8	ug/Kg	109	5		70 (82)	130 (124)	30 (20)
	Bromoform	20	23.6	ug/Kg	118	10		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	21.6	ug/Kg	108	5		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	22.7	ug/Kg	114	9		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	21.6	ug/Kg	108	4		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	21.2	ug/Kg	106	3		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	22.0	ug/Kg	110	7		70 (83)	130 (124)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY020224.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY1108SBSD01	1,2-Dibromo-3-Chloropropane	20	23.4	ug/Kg	117	8		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.9	ug/Kg	104	5		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	20.4	ug/Kg	102	6		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1114WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084844.D Lab Sample ID: VN1114WBL01

Date Analyzed: 11/14/2024 Time Analyzed: 10:52

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
VN1114WBS02	VN1114WBS02	VN084846.D	11/14/2024
VN1114WBSD02	VN1114WBSD02	VN084847.D	11/14/2024
TB-11042024	P4718-05	VN084851.D	11/14/2024
WB-307-SW	P4718-04	VN084853.D	11/14/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1108SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020222.D Lab Sample ID: VY1108SBL01

Date Analyzed: 11/08/2024 Time Analyzed: 10:40

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
VY1108SBS01	VY1108SBS01	VY020223.D	11/08/2024
VY1108SBSD01	VY1108SBSD01	VY020224.D	11/08/2024
WB-307-SB01	P4718-01	VY020233.D	11/08/2024
WB-307-SB02	P4718-02	VY020234.D	11/08/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084569.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 10:42

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	19.5
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	70.1 (95.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN084570.D	10/30/2024	11:46
VSTDICCC050	VSTDICCC050	VN084571.D	10/30/2024	12:09
VSTDICC020	VSTDICC020	VN084572.D	10/30/2024	12:33
VSTDICC010	VSTDICC010	VN084573.D	10/30/2024	12:57
VSTDICC005	VSTDICC005	VN084574.D	10/30/2024	13:21
VSTDICC001	VSTDICC001	VN084575.D	10/30/2024	13:45

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084841.D BFB Injection Date: 11/14/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:53

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	17.9
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.4
175	5.0 - 9.0% of mass 174	5.6 (7.5) 1
176	95.0 - 101.0% of mass 174	73.3 (98.5) 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	VN084842.D	11/14/2024	09:54
VN1114WBL01	VN1114WBL01	VN084844.D	11/14/2024	10:52
VN1114WBS02	VN1114WBS02	VN084846.D	11/14/2024	12:50
VN1114WBSD02	VN1114WBSD02	VN084847.D	11/14/2024	13:24
TB-11042024	P4718-05	VN084851.D	11/14/2024	14:59
WB-307-SW	P4718-04	VN084853.D	11/14/2024	15:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020074.D BFB Injection Date: 10/30/2024

Instrument ID: MSVOA_Y BFB Injection Time: 12:07

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
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY020075.D	10/30/2024	12:39
VSTDICC010	VSTDICC010	VY020076.D	10/30/2024	13:02
VSTDICC020	VSTDICC020	VY020077.D	10/30/2024	13:24
VSTDICCC050	VSTDICCC050	VY020078.D	10/30/2024	14:06
VSTDICC100	VSTDICC100	VY020079.D	10/30/2024	14:29
VSTDICC150	VSTDICC150	VY020080.D	10/30/2024	14:52

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020220.D BFB Injection Date: 11/08/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:45

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	23
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	72.6 (98.4) 1
177	5.0 - 9.0% of mass 176	4.8 (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	VY020221.D	11/08/2024	09:33
VY1108SBL01	VY1108SBL01	VY020222.D	11/08/2024	10:40
VY1108SBS01	VY1108SBS01	VY020223.D	11/08/2024	11:19
VY1108SBSD01	VY1108SBSD01	VY020224.D	11/08/2024	11:41
WB-307-SB01	P4718-01	VY020233.D	11/08/2024	15:12
WB-307-SB02	P4718-02	VY020234.D	11/08/2024	15:35

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084842.D Date Analyzed: 11/14/2024

Instrument ID: MSVOA_N Time Analyzed: 09:54

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	192160	8.22	316615	9.09	272995	11.87
UPPER LIMIT	384320	8.718	633230	9.594	545990	12.365
LOWER LIMIT	96080	7.718	158308	8.594	136498	11.365
EPA SAMPLE NO.						
WB-307-SW	203676	8.22	345476	9.09	299825	11.87
TB-11042024	193262	8.22	335586	9.10	288886	11.87
VN1114WBL01	203029	8.22	340637	9.09	293869	11.86
VN1114WBS02	169550	8.22	270058	9.09	234639	11.87
VN1114WBSD02	161141	8.22	263729	9.10	229436	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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VN084842.D Date Analyzed: 11/14/2024

Instrument ID: MSVOA_N Time Analyzed: 09:54

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

	IS4 AREA #	RT #				
12 HOUR STD	137639	13.788				
UPPER LIMIT	275278	14.288				
LOWER LIMIT	68819.5	13.288				
EPA SAMPLE NO.						
WB-307-SW	136300	13.79				
TB-11042024	136820	13.79				
VN1114WBL01	131669	13.79				
VN1114WBS02	118912	13.79				
VN1114WBSD02	112382	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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020221.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:33

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	282936	7.71	514187	8.62	441792	11.42
UPPER LIMIT	565872	8.213	1028370	9.116	883584	11.92
LOWER LIMIT	141468	7.213	257094	8.116	220896	10.92
EPA SAMPLE NO.						
WB-307-SB01	200375	7.71	415302	8.62	374550	11.41
WB-307-SB02	200262	7.71	428332	8.62	399084	11.41
VY1108SBL01	212436	7.71	452508	8.62	403401	11.42
VY1108SBS01	263593	7.71	480169	8.62	412478	11.41
VY1108SBSD01	271139	7.71	485080	8.62	417238	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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VY020221.D Date Analyzed: 11/08/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:33

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

	IS4 AREA #	RT #				
12 HOUR STD	208354	13.353				
UPPER LIMIT	416708	13.853				
LOWER LIMIT	104177	12.853				
EPA SAMPLE NO.						
WB-307-SB01	128433	13.35				
WB-307-SB02	136217	13.35				
VY1108SBL01	137264	13.35				
VY1108SBS01	187903	13.35				
VY1108SBSD01	193395	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:	VN1114WBL01	SDG No.:	P4718
Lab Sample ID:	VN1114WBL01	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
VN084844.D	1		11/14/24 10:52	VN111424

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:	VN1114WBL01	SDG No.:	P4718
Lab Sample ID:	VN1114WBL01	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
VN084844.D	1		11/14/24 10:52	VN111424

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	50.9		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	46.3		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	8.218			
540-36-3	1,4-Difluorobenzene	341000	9.094			
3114-55-4	Chlorobenzene-d5	294000	11.859			
3855-82-1	1,4-Dichlorobenzene-d4	132000	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:	VN1114WBL01	SDG No.:	P4718
Lab Sample ID:	VN1114WBL01	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
VN084844.D	1		11/14/24 10:52	VN111424

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:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	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
VY020222.D	1		11/08/24 10:40	VY110824

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:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	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
VY020222.D	1		11/08/24 10:40	VY110824

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	55.5		70 (50) - 130 (163)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		70 (54) - 130 (147)	101%	SPK: 50
2037-26-5	Toluene-d8	48.3		70 (58) - 130 (134)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		70 (29) - 130 (146)	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	212000	7.713			
540-36-3	1,4-Difluorobenzene	453000	8.616			
3114-55-4	Chlorobenzene-d5	403000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VY1108SBL01	SDG No.:	P4718
Lab Sample ID:	VY1108SBL01	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
VY020222.D	1		11/08/24 10:40	VY110824

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:	VN1114WBS02	SDG No.:	P4718
Lab Sample ID:	VN1114WBS02	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
VN084846.D	1		11/14/24 12:50	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.4		0.21	1.00	ug/L
74-87-3	Chloromethane	16.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.6		0.34	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	5.00	ug/L
75-00-3	Chloroethane	21.5		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.26	1.00	ug/L
67-64-1	Acetone	100		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.4		0.16	1.00	ug/L
79-20-9	Methyl Acetate	15.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.1		1.60	5.00	ug/L
78-93-3	2-Butanone	98.4		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	22.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.18	1.00	ug/L
67-66-3	Chloroform	20.2		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.6		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	22.5		0.19	1.00	ug/L
71-43-2	Benzene	20.6		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.2		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.0		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.5		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	21.6		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:	VN1114WBS02	SDG No.:	P4718
Lab Sample ID:	VN1114WBS02	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
VN084846.D	1		11/14/24 12:50	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.5		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.1		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.2		0.31	2.00	ug/L
95-47-6	o-Xylene	22.6		0.14	1.00	ug/L
100-42-5	Styrene	22.0		0.16	1.00	ug/L
75-25-2	Bromoform	20.9		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.3		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.3		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		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	18.6		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	49.0		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	170000	8.218			
540-36-3	1,4-Difluorobenzene	270000	9.094			
3114-55-4	Chlorobenzene-d5	235000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	119000	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:	VN1114WBS02	SDG No.:	P4718
Lab Sample ID:	VN1114WBS02	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
VN084846.D	1		11/14/24 12:50	VN111424

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:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	17.2		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.6		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	5.00	ug/Kg
74-83-9	Bromomethane	20.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	19.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.4		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		0.78	5.00	ug/Kg
67-64-1	Acetone	100		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.1		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	20.8		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.1		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	100		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.5		0.87	5.00	ug/Kg
71-43-2	Benzene	19.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.7		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		4.40	25.0	ug/Kg
108-88-3	Toluene	19.9		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:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.5		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	100		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.7		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.4		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.5		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.40	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.70	5.00	ug/Kg
100-42-5	Styrene	20.7		0.60	5.00	ug/Kg
75-25-2	Bromoform	21.4		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.6		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.8		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.6		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	21.5		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.8		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.2		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.8		70 (50) - 130 (163)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (54) - 130 (147)	100%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (58) - 130 (134)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (29) - 130 (146)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	264000	7.707			
540-36-3	1,4-Difluorobenzene	480000	8.615			
3114-55-4	Chlorobenzene-d5	412000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	188000	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:	VY1108SBS01	SDG No.:	P4718
Lab Sample ID:	VY1108SBS01	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
VY020223.D	1		11/08/24 11:19	VY110824

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:	VN1114WBSD02	SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02	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
VN084847.D	1		11/14/24 13:24	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		0.21	1.00	ug/L
74-87-3	Chloromethane	16.7		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	21.2		0.34	1.00	ug/L
74-83-9	Bromomethane	20.8		1.40	5.00	ug/L
75-00-3	Chloroethane	22.1		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.5		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.26	1.00	ug/L
67-64-1	Acetone	110		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	17.2		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.8		0.16	1.00	ug/L
79-20-9	Methyl Acetate	16.8		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.0		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.4		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.3		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	22.4		0.18	1.00	ug/L
67-66-3	Chloroform	20.7		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.8		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	21.8		0.19	1.00	ug/L
71-43-2	Benzene	20.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	21.1		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.8		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:	VN1114WBSD02	SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02	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
VN084847.D	1		11/14/24 13:24	VN111424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.6		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	22.2		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.5		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.9		0.25	1.00	ug/L
108-90-7	Chlorobenzene	21.1		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	21.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.6		0.31	2.00	ug/L
95-47-6	o-Xylene	22.2		0.14	1.00	ug/L
100-42-5	Styrene	21.7		0.16	1.00	ug/L
75-25-2	Bromoform	21.6		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	21.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.8		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.4		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.0		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	161000	8.218			
540-36-3	1,4-Difluorobenzene	264000	9.1			
3114-55-4	Chlorobenzene-d5	229000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	112000	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:	VN1114WBSD02	SDG No.:	P4718
Lab Sample ID:	VN1114WBSD02	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
VN084847.D	1		11/14/24 13:24	VN111424

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:	VY1108SBSD01	SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01	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
VY020224.D	1		11/08/24 11:41	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.9		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.8		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.4		0.77	5.00	ug/Kg
74-83-9	Bromomethane	21.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	21.2		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.6		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		0.78	5.00	ug/Kg
67-64-1	Acetone	110		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.0		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	23.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	24.5		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	20.4		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.3		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.5		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	21.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.1		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	17.7		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	21.5		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	20.8		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.5		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	21.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.9		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	120		4.40	25.0	ug/Kg
108-88-3	Toluene	21.4		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:	VY1108SBSD01	SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01	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
VY020224.D	1		11/08/24 11:41	VY110824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	22.1		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	21.7		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.9		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	120		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	22.8		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	22.5		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.4		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	21.5		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.2		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.5		1.40	10.0	ug/Kg
95-47-6	o-Xylene	21.5		0.70	5.00	ug/Kg
100-42-5	Styrene	21.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	23.6		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	22.7		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.6		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.2		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.0		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	23.4		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.9		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	20.4		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.8		70 (50) - 130 (163)	116%	SPK: 50
1868-53-7	Dibromofluoromethane	55.4		70 (54) - 130 (147)	111%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (58) - 130 (134)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		70 (29) - 130 (146)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	271000	7.707			
540-36-3	1,4-Difluorobenzene	485000	8.616			
3114-55-4	Chlorobenzene-d5	417000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	193000	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:	VY1108SBSD01	SDG No.:	P4718
Lab Sample ID:	VY1108SBSD01	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
VY020224.D	1		11/08/24 11:41	VY110824

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.571	0.552	0.552	0.598	0.594	0.581	0.575	3.4
Chloromethane	0.658	0.672	0.725	0.871	0.995	1.789	0.952	45.2
Vinyl Chloride	0.613	0.605	0.623	0.636	0.651	0.581	0.618	4
Bromomethane	0.292	0.296	0.310	0.336	0.405		0.328	14.2
Chloroethane	0.378	0.376	0.413	0.426	0.475	0.863	0.488	38.3
Trichlorofluoromethane	0.971	0.959	1.017	1.022	1.070	1.071	1.018	4.7
1,1,2-Trichlorotrifluoroethane	0.566	0.557	0.571	0.585	0.588	0.586	0.575	2.2
1,1-Dichloroethene	0.548	0.538	0.560	0.575	0.552	0.644	0.569	6.8
Acetone	0.209	0.204	0.213	0.223	0.241	0.338	0.238	21.3
Carbon Disulfide	1.604	1.603	1.700	1.714	1.784	2.117	1.753	10.9
Methyl tert-butyl Ether	1.773	1.758	1.802	1.779	1.786	1.572	1.745	4.9
Methyl Acetate	0.731	0.749	0.954	1.044	1.266	2.291	1.172	49.7
Methylene Chloride	0.604	0.602	0.633	0.658	0.714	0.600	0.635	7.1
trans-1,2-Dichloroethene	0.565	0.563	0.596	0.600	0.584	0.601	0.585	2.9
1,1-Dichloroethane	1.067	1.066	1.114	1.127	1.203	1.033	1.102	5.5
Cyclohexane	0.956	0.938	0.956	1.043	1.093		0.997	6.8
2-Butanone	0.316	0.315	0.348	0.338	0.370	0.334	0.337	6.1
Carbon Tetrachloride	0.530	0.514	0.532	0.548	0.537	0.488	0.525	4
cis-1,2-Dichloroethene	0.675	0.662	0.697	0.685	0.705	0.673	0.683	2.4
Bromochloromethane	0.483	0.511	0.388	0.415	0.408	0.429	0.439	10.8
Chloroform	1.099	1.086	1.142	1.154	1.222	1.025	1.121	6
1,1,1-Trichloroethane	1.000	0.991	1.046	1.073	1.032	0.980	1.021	3.5
Methylcyclohexane	0.546	0.509	0.495	0.487	0.458	0.371	0.478	12.5
Benzene	1.494	1.448	1.509	1.507	1.546	1.540	1.507	2.4
1,2-Dichloroethane	0.488	0.494	0.493	0.492	0.503	0.459	0.488	3.1
Trichloroethene	0.339	0.335	0.345	0.338	0.341	0.387	0.348	5.7
1,2-Dichloropropane	0.356	0.348	0.358	0.357	0.373	0.330	0.354	4
Bromodichloromethane	0.528	0.521	0.526	0.522	0.529	0.530	0.526	0.7
4-Methyl-2-Pentanone	0.424	0.423	0.416	0.417	0.412	0.344	0.406	7.6
Toluene	0.923	0.899	0.919	0.902	0.891	0.757	0.882	7.1

* 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.

Alliance TECHNICAL GROUP
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:46 13:45

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

LAB FILE ID: RRF100 = VN084570.D RRF050 = VN084571.D RRF020 = VN084572.D
RRF010 = VN084573.D RRF005 = VN084574.D RRF001 = VN084575.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD
t-1,3-Dichloropropene	0.552	0.543	0.538	0.532	0.547	0.555	0.544	1.6
cis-1,3-Dichloropropene	0.592	0.581	0.582	0.569	0.584	0.548	0.576	2.7
1,1,2-Trichloroethane	0.336	0.329	0.334	0.342	0.342	0.309	0.332	3.7
2-Hexanone	0.314	0.312	0.301	0.297	0.294	0.256	0.296	7.1
Dibromochloromethane	0.404	0.394	0.391	0.393	0.377	0.312	0.378	8.9
1,2-Dibromoethane	0.340	0.333	0.341	0.335	0.355	0.336	0.340	2.4
Tetrachloroethene	0.326	0.313	0.333	0.347	0.351	0.325	0.333	4.3
Chlorobenzene	1.068	1.061	1.149	1.123	1.165	1.146	1.119	3.9
Ethyl Benzene	1.957	1.891	1.928	1.880	1.849	1.697	1.867	4.9
m/p-Xylenes	0.737	0.728	0.737	0.701	0.683	0.654	0.707	4.8
o-Xylene	0.703	0.690	0.701	0.679	0.645	0.550	0.661	8.9
Styrene	1.223	1.205	1.206	1.144	1.093	1.050	1.154	6.1
Bromoform	0.287	0.295	0.298	0.289	0.302	0.286	0.293	2.3
Isopropylbenzene	3.558	3.570	3.701	3.605	3.402	3.188	3.504	5.2
1,1,2,2-Tetrachloroethane	1.052	1.073	1.163	1.190	1.317	1.222	1.170	8.4
1,3-Dichlorobenzene	1.642	1.668	1.770	1.802	1.884	2.264	1.838	12.3
1,4-Dichlorobenzene	1.646	1.674	1.782	1.867	1.879	2.773	1.937	21.7
1,2-Dichlorobenzene	1.601	1.618	1.748	1.732	1.879	2.021	1.766	9.1
1,2-Dibromo-3-Chloropropane	0.204	0.217	0.229	0.226	0.274	0.272	0.237	12.3
1,2,4-Trichlorobenzene	0.852	0.865	0.895	0.881	0.956	1.353	0.967	19.9
1,2,3-Trichlorobenzene	0.832	0.841	0.953	0.877	0.939	1.189	0.939	14.1
1,2-Dichloroethane-d4	0.689	0.721	0.708	0.722	0.771		0.722	4.2
Dibromofluoromethane	0.334	0.344	0.326	0.336	0.353		0.338	3.1
Toluene-d8	1.267	1.303	1.216	1.231	1.217		1.247	3
4-Bromofluorobenzene	0.481	0.493	0.450	0.451	0.454		0.466	4.3

* 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.

Alliance TECHNICAL GROUP
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.507	0.488	0.482	0.381	0.456	0.463	0.463	9.5
Chloromethane	0.831	0.835	0.791	0.683	0.731	0.728	0.767	8.1
Vinyl Chloride	0.867	0.874	0.835	0.754	0.809	0.799	0.823	5.5
Bromomethane	0.631	0.574	0.545	0.480	0.521	0.528	0.546	9.5
Chloroethane	0.562	0.555	0.546	0.486	0.527	0.511	0.531	5.5
Trichlorofluoromethane	1.025	1.018	1.037	0.927	1.012	1.014	1.005	3.9
1,1,2-Trichlorotrifluoroethane	0.597	0.584	0.567	0.509	0.561	0.565	0.564	5.3
1,1-Dichloroethene	0.534	0.578	0.536	0.493	0.543	0.552	0.540	5.1
Acetone	0.134	0.138	0.138	0.140	0.165	0.155	0.145	8.5
Carbon Disulfide	1.790	1.835	1.806	1.674	1.832	1.837	1.796	3.5
Methyl tert-butyl Ether	1.229	1.344	1.376	1.241	1.483	1.471	1.357	8
Methyl Acetate	0.314	0.357	0.351	0.317	0.362	0.342	0.340	6
Methylene Chloride	0.807	0.716	0.641	0.555	0.597	0.597	0.652	14.3
trans-1,2-Dichloroethene	0.611	0.618	0.613	0.564	0.616	0.628	0.609	3.7
1,1-Dichloroethane	1.155	1.209	1.189	1.070	1.194	1.200	1.170	4.5
Cyclohexane	1.284	1.206	1.138	0.986	1.093	1.088	1.132	9.1
2-Butanone	0.187	0.197	0.192	0.179	0.219	0.206	0.197	7.3
Carbon Tetrachloride	0.467	0.491	0.499	0.462	0.519	0.524	0.494	5.2
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
Bromochloromethane	0.572	0.562	0.527	0.505	0.553	0.567	0.548	4.8
Chloroform	1.141	1.170	1.186	1.068	1.196	1.203	1.161	4.3
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Methylcyclohexane	0.603	0.602	0.631	0.578	0.665	0.661	0.623	5.6
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
1,2-Dichloroethane	0.379	0.391	0.402	0.365	0.425	0.418	0.397	5.8
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
1,2-Dichloropropane	0.323	0.331	0.357	0.320	0.363	0.364	0.343	6
Bromodichloromethane	0.459	0.476	0.487	0.451	0.526	0.522	0.487	6.4
4-Methyl-2-Pentanone	0.190	0.223	0.238	0.219	0.269	0.252	0.232	11.9
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1

* 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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Calibration Time(s): 12:39 14:52

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

LAB FILE ID: RRF005 = VY020075.D RRF010 = VY020076.D RRF020 = VY020077.D
RRF050 = VY020078.D RRF100 = VY020079.D RRF150 = VY020080.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.369	0.400	0.436	0.401	0.486	0.487	0.430	11.3
cis-1,3-Dichloropropene	0.446	0.485	0.518	0.484	0.573	0.573	0.513	10
1,1,2-Trichloroethane	0.206	0.225	0.235	0.216	0.257	0.248	0.231	8.4
2-Hexanone	0.131	0.161	0.168	0.158	0.198	0.182	0.166	13.7
Dibromochloromethane	0.256	0.281	0.300	0.273	0.332	0.326	0.295	10.3
1,2-Dibromoethane	0.203	0.214	0.215	0.196	0.233	0.228	0.215	6.7
Tetrachloroethene	0.326	0.316	0.344	0.307	0.344	0.343	0.330	4.8
Chlorobenzene	1.024	1.044	1.094	0.993	1.114	1.124	1.065	5
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Styrene	0.985	1.080	1.154	1.093	1.259	1.273	1.141	9.8
Bromoform	0.151	0.162	0.173	0.165	0.202	0.195	0.175	11.4
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3
1,1,2,2-Tetrachloroethane	0.716	0.707	0.698	0.624	0.727	0.719	0.699	5.4
1,3-Dichlorobenzene	1.659	1.521	1.680	1.509	1.703	1.774	1.641	6.4
1,4-Dichlorobenzene	1.680	1.604	1.653	1.487	1.666	1.716	1.634	5
1,2-Dichlorobenzene	1.391	1.384	1.460	1.310	1.483	1.530	1.426	5.6
1,2-Dibromo-3-Chloropropane	0.107	0.104	0.106	0.092	0.114	0.112	0.106	7.6
1,2,4-Trichlorobenzene	0.652	0.708	0.784	0.693	0.865	0.895	0.766	12.8
1,2,3-Trichlorobenzene	0.578	0.606	0.653	0.575	0.737	0.754	0.650	12.1
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5

* 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.

Alliance TECHNICAL GROUP
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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date/Time: 11/14/2024 09:54

Lab File ID: VN084842.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.575	0.573		-0.35	20
Chloromethane	0.952	0.649	0.1	-31.83	20
Vinyl Chloride	0.618	0.704		13.92	20
Bromomethane	0.328	0.344		4.88	20
Chloroethane	0.488	0.457		-6.35	20
Trichlorofluoromethane	1.018	1.101		8.15	20
1,1,2-Trichlorotrifluoroethane	0.575	0.605		5.22	20
1,1-Dichloroethene	0.569	0.578		1.58	20
Acetone	0.238	0.224		-5.88	20
Carbon Disulfide	1.753	1.595		-9.01	20
Methyl tert-butyl Ether	1.745	1.942		11.29	20
Methyl Acetate	1.172	0.687		-41.38	20
Methylene Chloride	0.635	0.652		2.68	20
trans-1,2-Dichloroethene	0.585	0.598		2.22	20
1,1-Dichloroethane	1.102	1.128	0.1	2.36	20
Cyclohexane	0.997	0.993		-0.4	20
2-Butanone	0.337	0.338		0.3	20
Carbon Tetrachloride	0.525	0.586		11.62	20
cis-1,2-Dichloroethene	0.683	0.720		5.42	20
Bromochloromethane	0.439	0.442		0.68	20
Chloroform	1.121	1.197		6.78	20
1,1,1-Trichloroethane	1.021	1.100		7.74	20
Methylcyclohexane	0.478	0.569		19.04	20
Benzene	1.507	1.597		5.97	20
1,2-Dichloroethane	0.488	0.528		8.2	20
Trichloroethene	0.348	0.361		3.74	20
1,2-Dichloropropane	0.354	0.387		9.32	20
Bromodichloromethane	0.526	0.568		7.99	20
4-Methyl-2-Pentanone	0.406	0.431		6.16	20
Toluene	0.882	0.979		11	20
t-1,3-Dichloropropene	0.544	0.568		4.41	20
cis-1,3-Dichloropropene	0.576	0.622		7.99	20
1,1,2-Trichloroethane	0.332	0.352		6.02	20
2-Hexanone	0.296	0.328		10.81	20
Dibromochloromethane	0.378	0.419		10.85	20
1,2-Dibromoethane	0.340	0.354		4.12	20
Tetrachloroethene	0.333	0.364		9.31	20
Chlorobenzene	1.119	1.180	0.3	5.45	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_N Calibration Date/Time: 11/14/2024 09:54

Lab File ID: VN084842.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.867	2.143		14.78	20
m/p-Xylenes	0.707	0.810		14.57	20
o-Xylene	0.661	0.781		18.15	20
Styrene	1.154	1.325		14.82	20
Bromoform	0.293	0.325	0.1	10.92	20
Isopropylbenzene	3.504	3.958		12.96	20
1,1,2,2-Tetrachloroethane	1.170	1.145	0.3	-2.14	20
1,3-Dichlorobenzene	1.838	1.791		-2.56	20
1,4-Dichlorobenzene	1.937	1.765		-8.88	20
1,2-Dichlorobenzene	1.766	1.712		-3.06	20
1,2-Dibromo-3-Chloropropane	0.237	0.214		-9.7	20
1,2,4-Trichlorobenzene	0.967	0.881		-8.89	20
1,2,3-Trichlorobenzene	0.939	0.866		-7.77	20
1,2-Dichloroethane-d4	0.722	0.657		-9	20
Dibromofluoromethane	0.338	0.320		-5.32	20
Toluene-d8	1.247	1.188		-4.73	20
4-Bromofluorobenzene	0.466	0.459		-1.5	20

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.463	0.412		-11.02	20
Chloromethane	0.767	0.758	0.1	-1.17	20
Vinyl Chloride	0.823	0.902		9.6	20
Bromomethane	0.546	0.575		5.31	20
Chloroethane	0.531	0.600		12.99	20
Trichlorofluoromethane	1.005	1.166		16.02	20
1,1,2-Trichlorotrifluoroethane	0.564	0.638		13.12	20
1,1-Dichloroethene	0.540	0.596		10.37	20
Acetone	0.145	0.177		22.07	20
Carbon Disulfide	1.796	1.901		5.85	20
Methyl tert-butyl Ether	1.357	1.510		11.27	20
Methyl Acetate	0.340	0.345		1.47	20
Methylene Chloride	0.652	0.630		-3.37	20
trans-1,2-Dichloroethene	0.609	0.682		11.99	20
1,1-Dichloroethane	1.170	1.333	0.1	13.93	20
Cyclohexane	1.132	1.185		4.68	20
2-Butanone	0.197	0.214		8.63	20
Carbon Tetrachloride	0.494	0.582		17.81	20
cis-1,2-Dichloroethene	0.700	0.800		14.29	20
Bromochloromethane	0.548	0.552		0.73	20
Chloroform	1.161	1.349		16.19	20
1,1,1-Trichloroethane	1.013	1.203		18.76	20
Methylcyclohexane	0.623	0.708		13.64	20
Benzene	1.433	1.608		12.21	20
1,2-Dichloroethane	0.397	0.432		8.82	20
Trichloroethene	0.332	0.376		13.25	20
1,2-Dichloropropane	0.343	0.385		12.24	20
Bromodichloromethane	0.487	0.557		14.37	20
4-Methyl-2-Pentanone	0.232	0.242		4.31	20
Toluene	0.884	1.030		16.52	20
t-1,3-Dichloropropene	0.430	0.481		11.86	20
cis-1,3-Dichloropropene	0.513	0.573		11.7	20
1,1,2-Trichloroethane	0.231	0.255		10.39	20
2-Hexanone	0.166	0.179		7.83	20
Dibromochloromethane	0.295	0.334		13.22	20
1,2-Dibromoethane	0.215	0.231		7.44	20
Tetrachloroethene	0.330	0.386		16.97	20
Chlorobenzene	1.065	1.227	0.3	15.21	20

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

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_Y Calibration Date/Time: 11/08/2024 09:33

Lab File ID: VY020221.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.992	2.350		17.97	20
m/p-Xylenes	0.729	0.859		17.83	20
o-Xylene	0.690	0.808		17.1	20
Styrene	1.141	1.371		20.16	20
Bromoform	0.175	0.201	0.1	14.86	20
Isopropylbenzene	3.994	4.721		18.2	20
1,1,2,2-Tetrachloroethane	0.699	0.726	0.3	3.86	20
1,3-Dichlorobenzene	1.641	1.877		14.38	20
1,4-Dichlorobenzene	1.634	1.830		11.99	20
1,2-Dichlorobenzene	1.426	1.635		14.66	20
1,2-Dibromo-3-Chloropropane	0.106	0.107		0.94	20
1,2,4-Trichlorobenzene	0.766	0.872		13.84	20
1,2,3-Trichlorobenzene	0.650	0.716		10.15	20
1,2-Dichloroethane-d4	0.624	0.603		-3.37	20
Dibromofluoromethane	0.318	0.309		-2.83	20
Toluene-d8	1.265	1.242		-1.82	20
4-Bromofluorobenzene	0.411	0.414		0.73	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\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Time: Nov 08 22:19:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

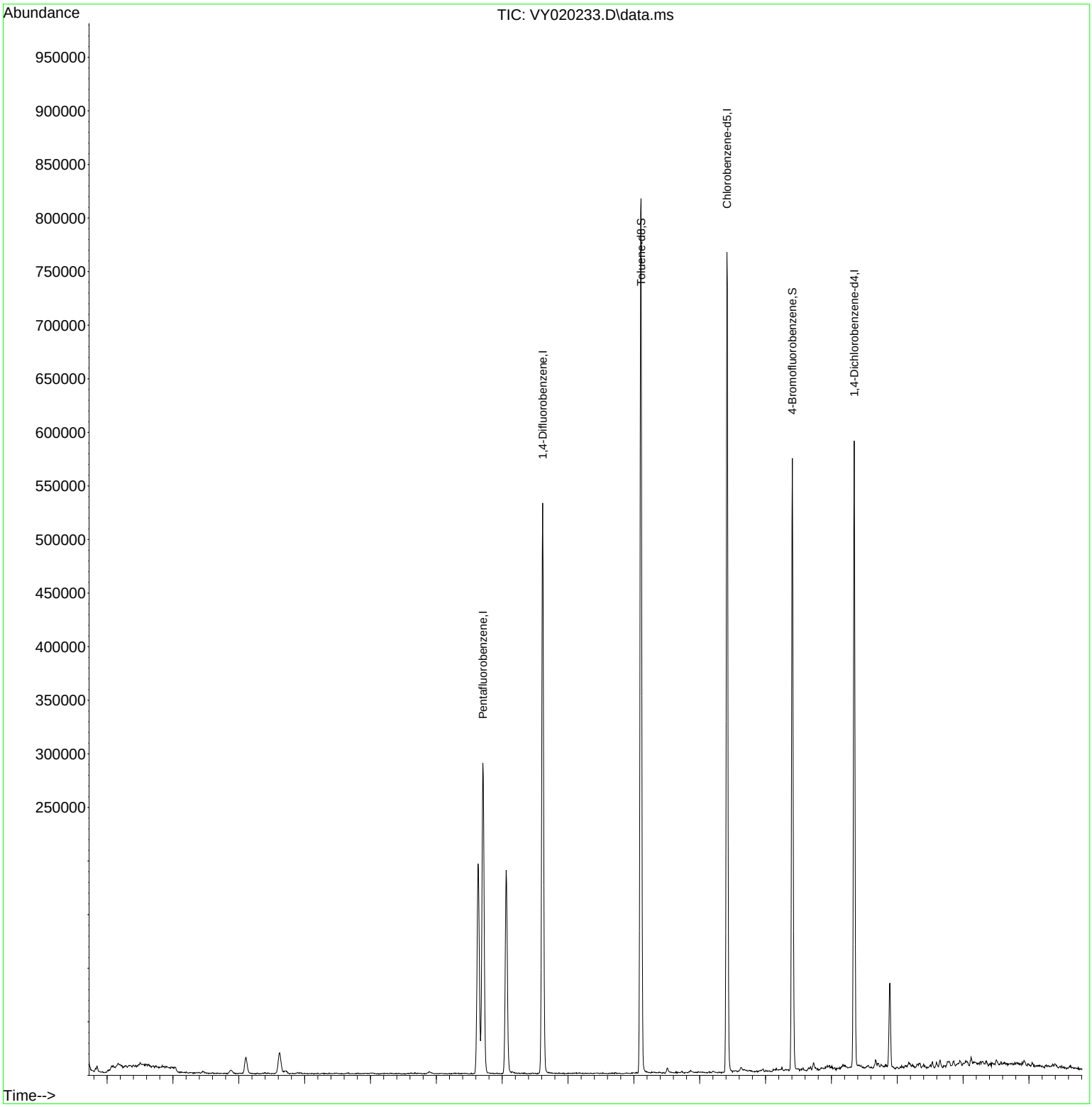
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	200375	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	415302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	374550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	128433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	151753	60.682	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.360%			
35) Dibromofluoromethane	7.634	113	138097	52.300	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.600%			
50) Toluene-d8	10.109	98	518276	49.311	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.407	95	160323	46.962	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 93.920%			
Target Compounds						Qvalue
16) Acetone	3.891	43	5109	8.785	ug/l #	63
17) Carbon Disulfide	4.110	76	29580	4.111	ug/l	99
20) Methylene Chloride	4.622	84	13173	5.042	ug/l #	83

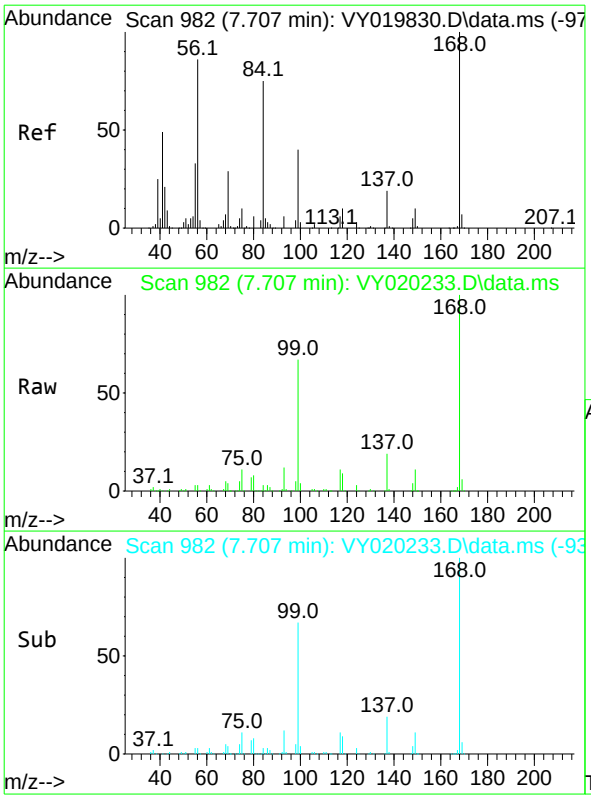
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Time: Nov 08 22:19:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



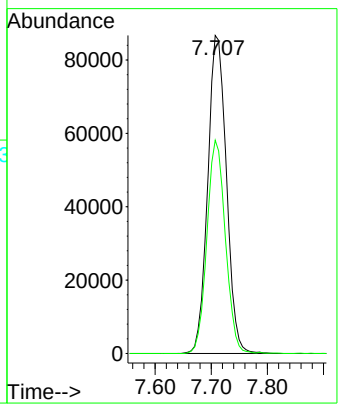


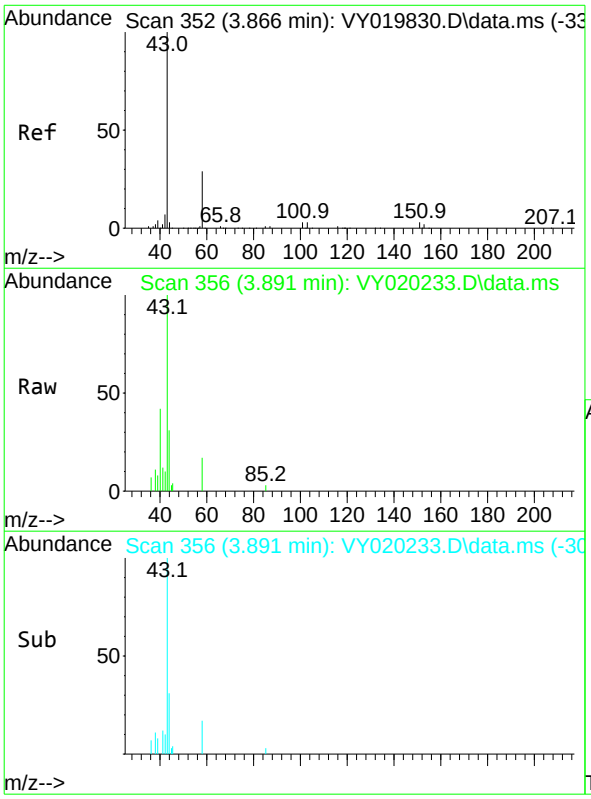
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion:168 Resp: 200375

Ion	Ratio	Lower	Upper
168	100		
99	67.1	39.1	58.7#

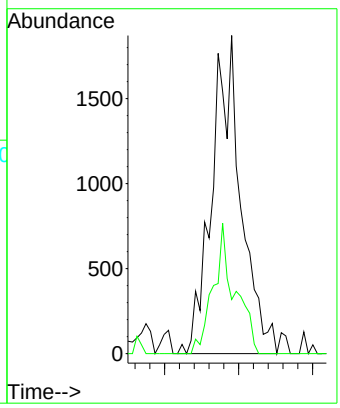




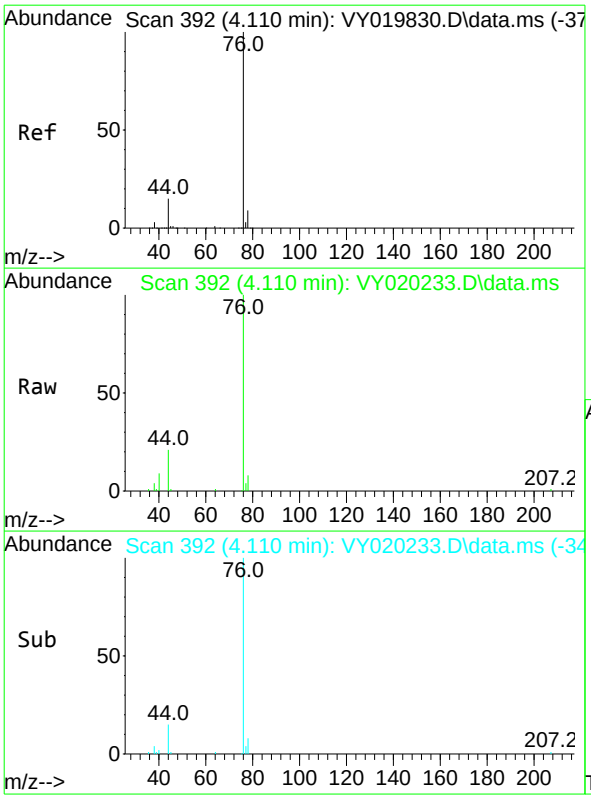
#16
Acetone
Concen: 8.785 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.018 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 43 Resp: 5109

Ion	Ratio	Lower	Upper
43	100		
58	17.0	31.7	47.5#



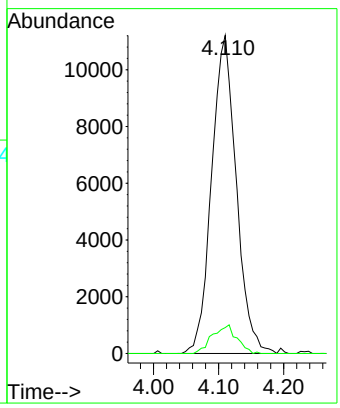
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

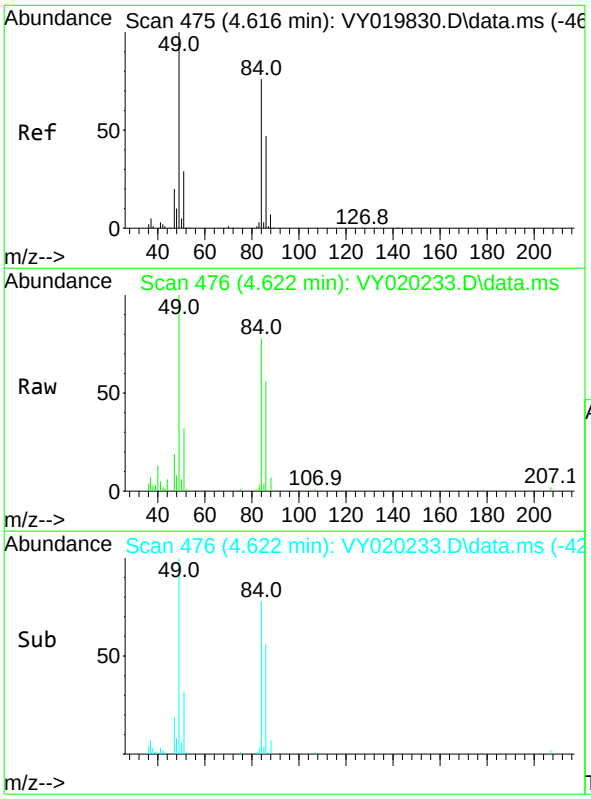


#17
Carbon Disulfide
Concen: 4.111 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 76 Resp: 29580

Ion	Ratio	Lower	Upper
76	100		
78	8.1	6.8	10.2

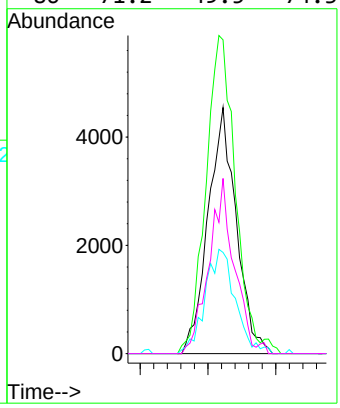


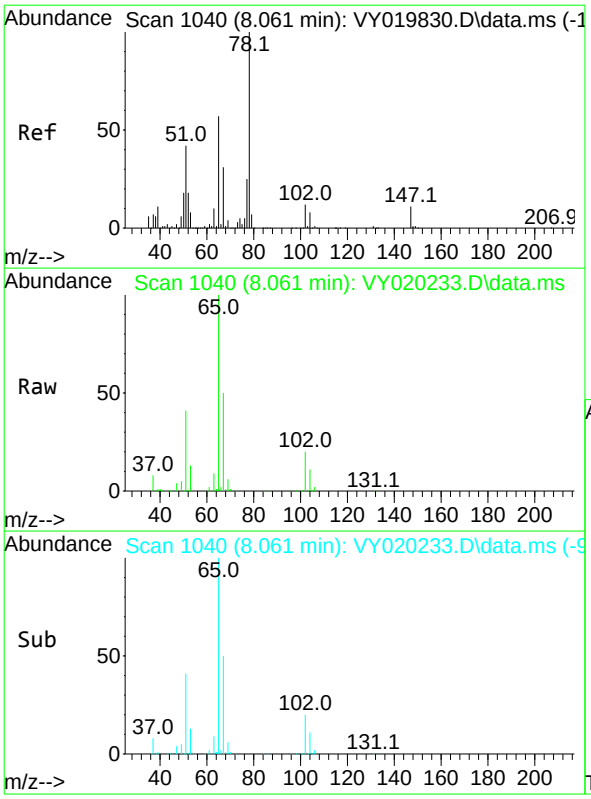


#20
Methylene Chloride
Concen: 5.042 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 84 Resp: 13173

Ion	Ratio	Lower	Upper
84	100		
49	127.5	84.4	126.6#
51	41.1	26.0	39.0#
86	71.2	49.5	74.3



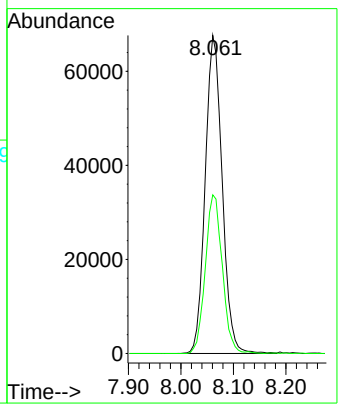


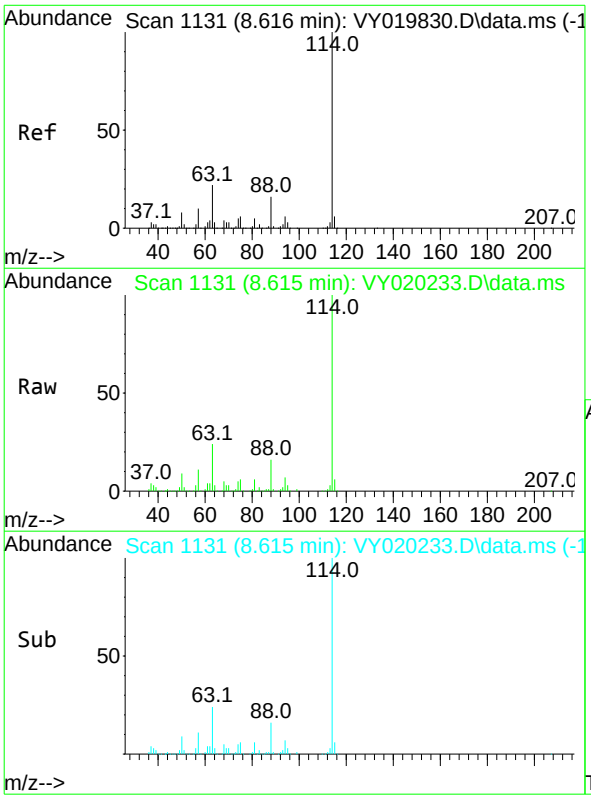
#33
1,2-Dichloroethane-d4
Concen: 60.682 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion: 65 Resp: 151753

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	109.6

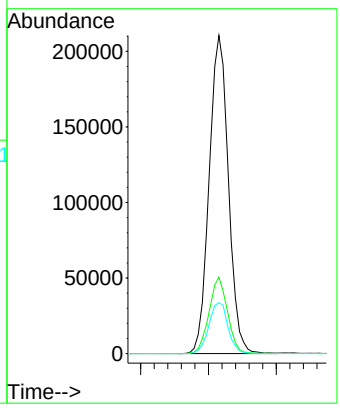


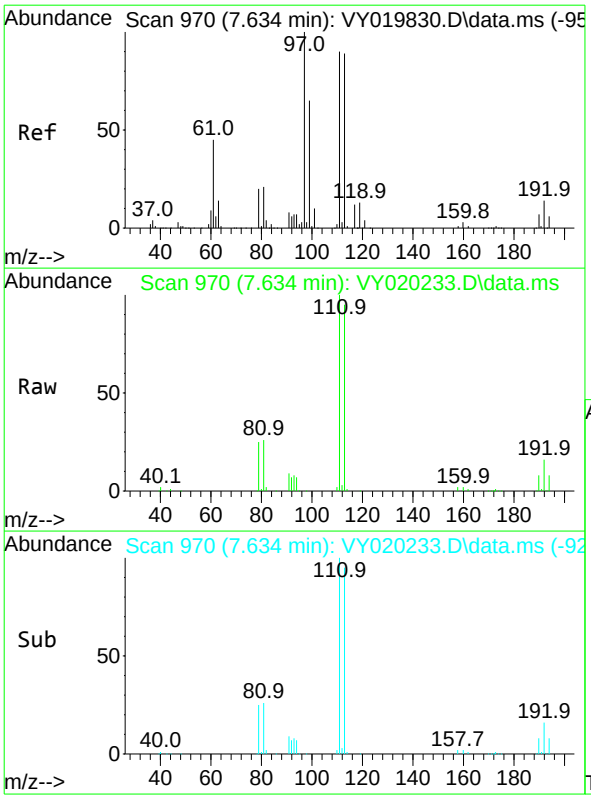


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion:114 Resp: 415302

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	35.0
88	16.0	0.0	27.2



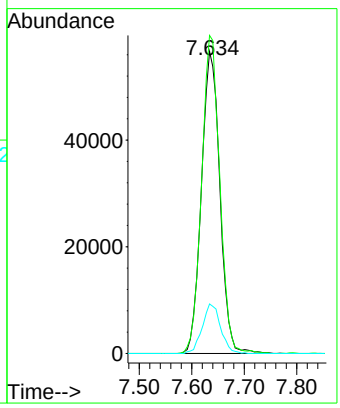


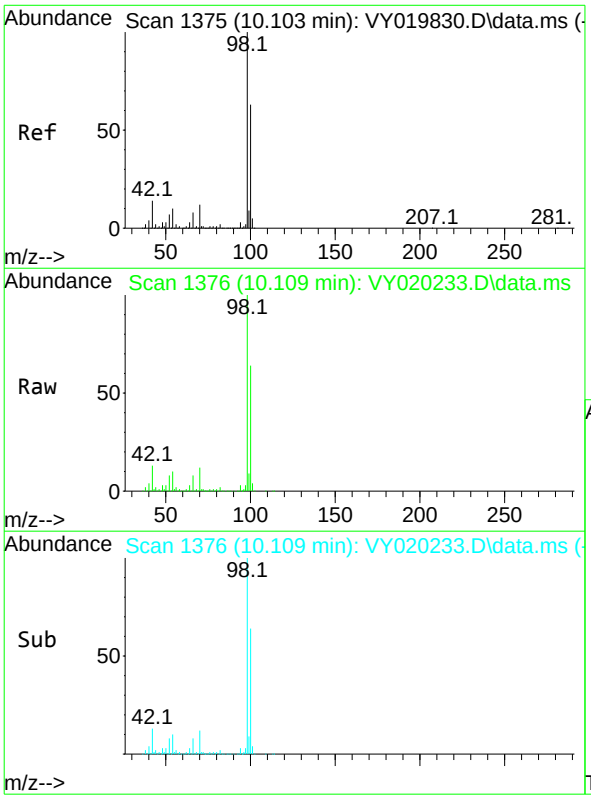
#35
Dibromofluoromethane
Concen: 52.300 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion:113 Resp: 138097

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.2	123.4
192	16.3	15.9	23.9

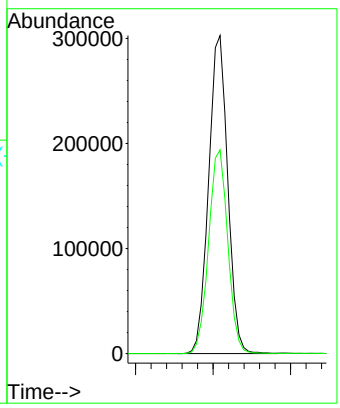




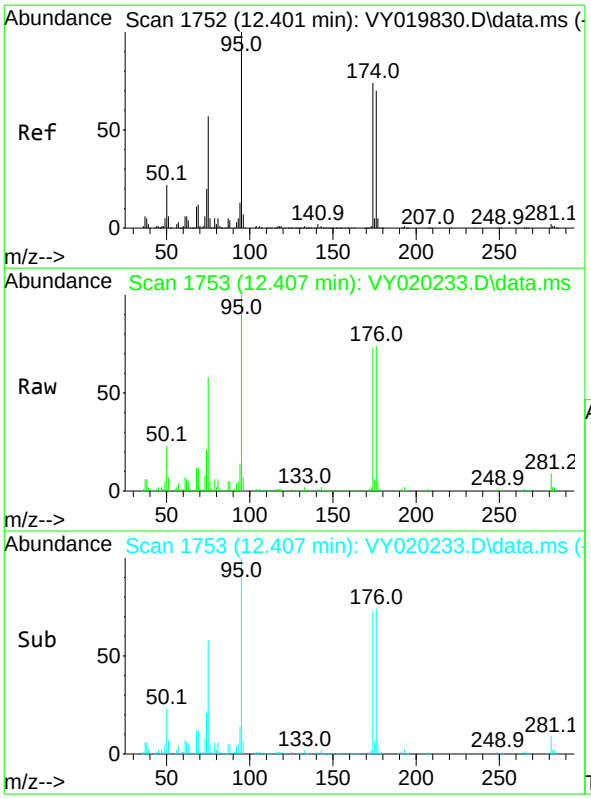
#50
Toluene-d8
Concen: 49.311 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 98 Resp: 518276

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0



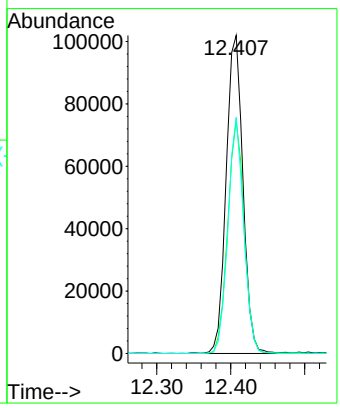
Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

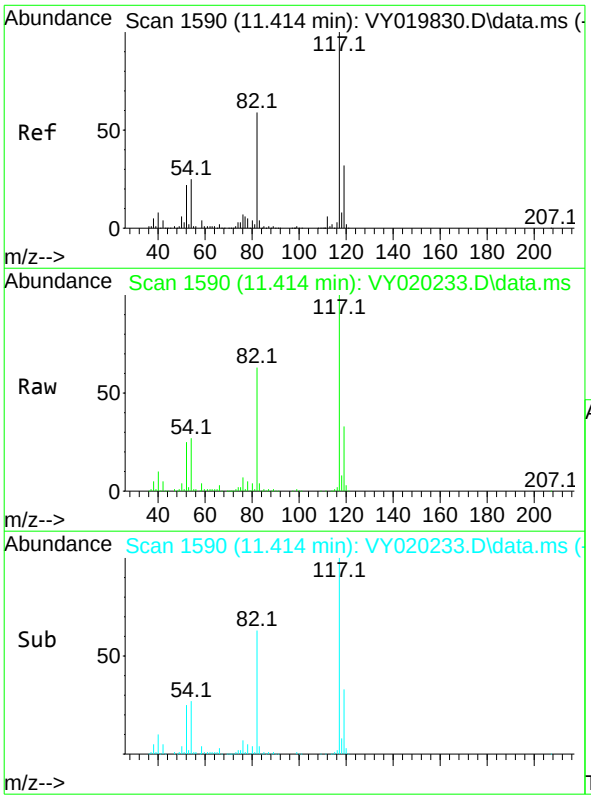


#62
4-Bromofluorobenzene
Concen: 46.962 ug/l
RT: 12.407 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion: 95 Resp: 160323

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	175.6
176	69.6	0.0	171.4

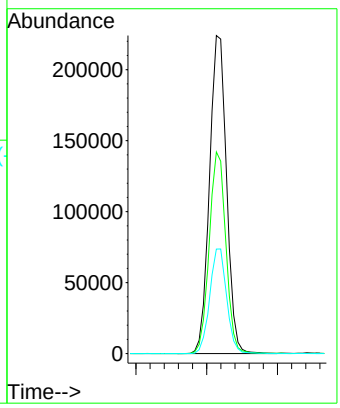


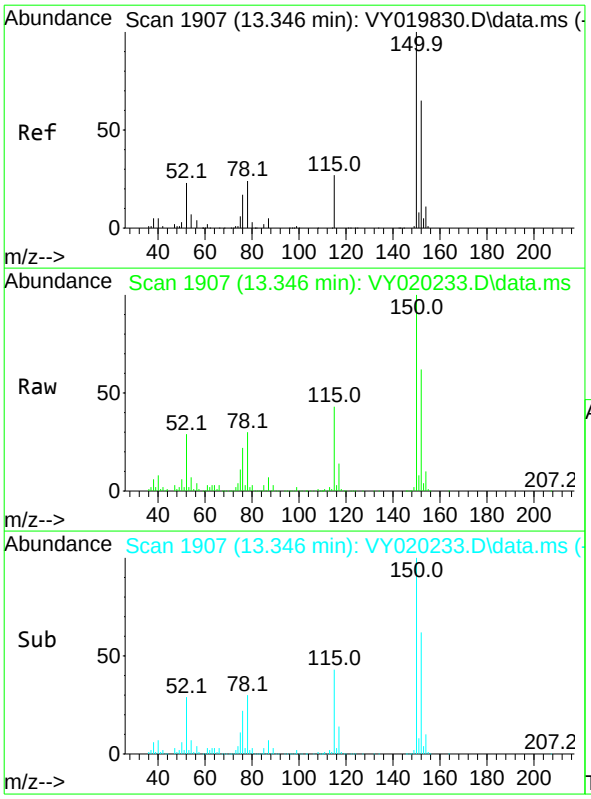


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Tgt Ion:117 Resp: 374550

Ion	Ratio	Lower	Upper
117	100		
82	63.4	42.4	63.6
119	32.9	25.9	38.9



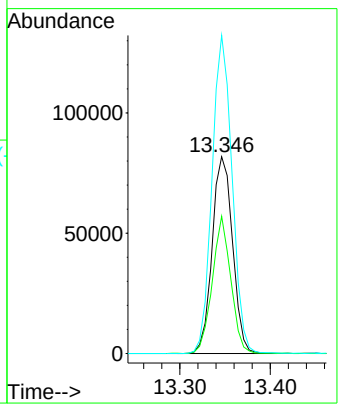


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020233.D
Acq: 08 Nov 2024 15:12

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Tgt Ion:152 Resp: 128433

Ion	Ratio	Lower	Upper
152	100		
115	63.2	28.2	84.7
150	158.7	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-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\82Y103024S.M
Title : SW846 8260

Signal : TIC: VY020233.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.110	382	392	403	rBV2	15164	41548	2.89%	0.562%
2	4.622	464	476	485	rBV2	19313	60061	4.18%	0.812%
3	7.634	961	970	976	rBV	195879	470590	32.72%	6.366%
4	7.707	976	982	994	rVB	289307	669792	46.57%	9.060%
5	8.061	1030	1040	1053	rBV	190065	427315	29.71%	5.780%
6	8.615	1119	1131	1145	rBV	532669	1046034	72.73%	14.150%
7	10.109	1368	1376	1388	rBV	816255	1438304	100.00%	19.456%
8	11.414	1583	1590	1600	rBV	765257	1269686	88.28%	17.175%
9	12.407	1744	1753	1763	rBV2	571666	940488	65.39%	12.722%
10	13.346	1900	1907	1915	rBV	584463	898583	62.48%	12.155%
11	13.889	1989	1996	2003	rVB2	78299	130057	9.04%	1.759%

Sum of corrected areas: 7392458

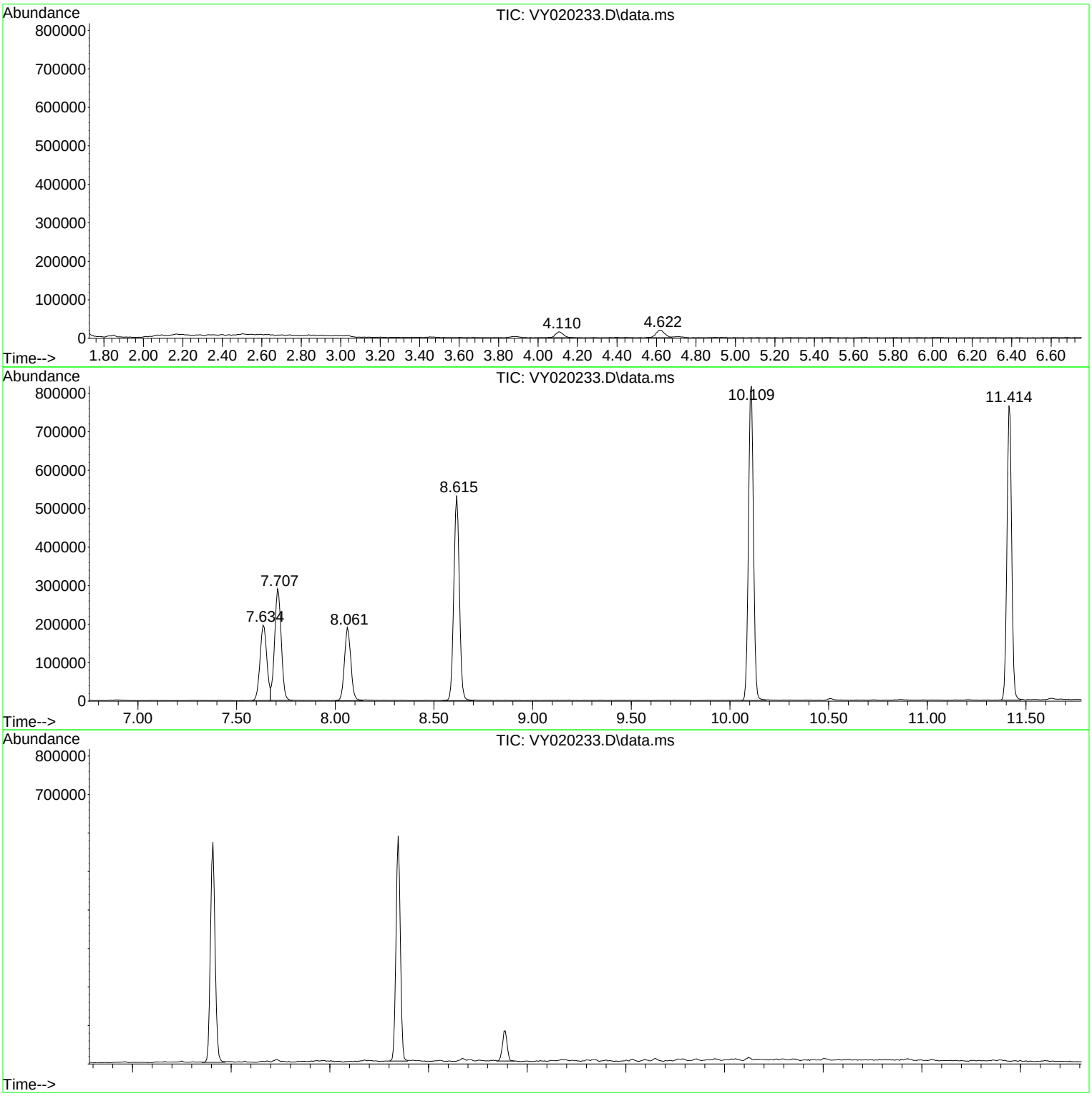
Sample Results: **VY020233.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VY110824\
Data File : VY020233.D
Acq On : 08 Nov 2024 15:12
Operator : SY/MD
Sample : P4718-01
Misc : 7.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 22:20:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

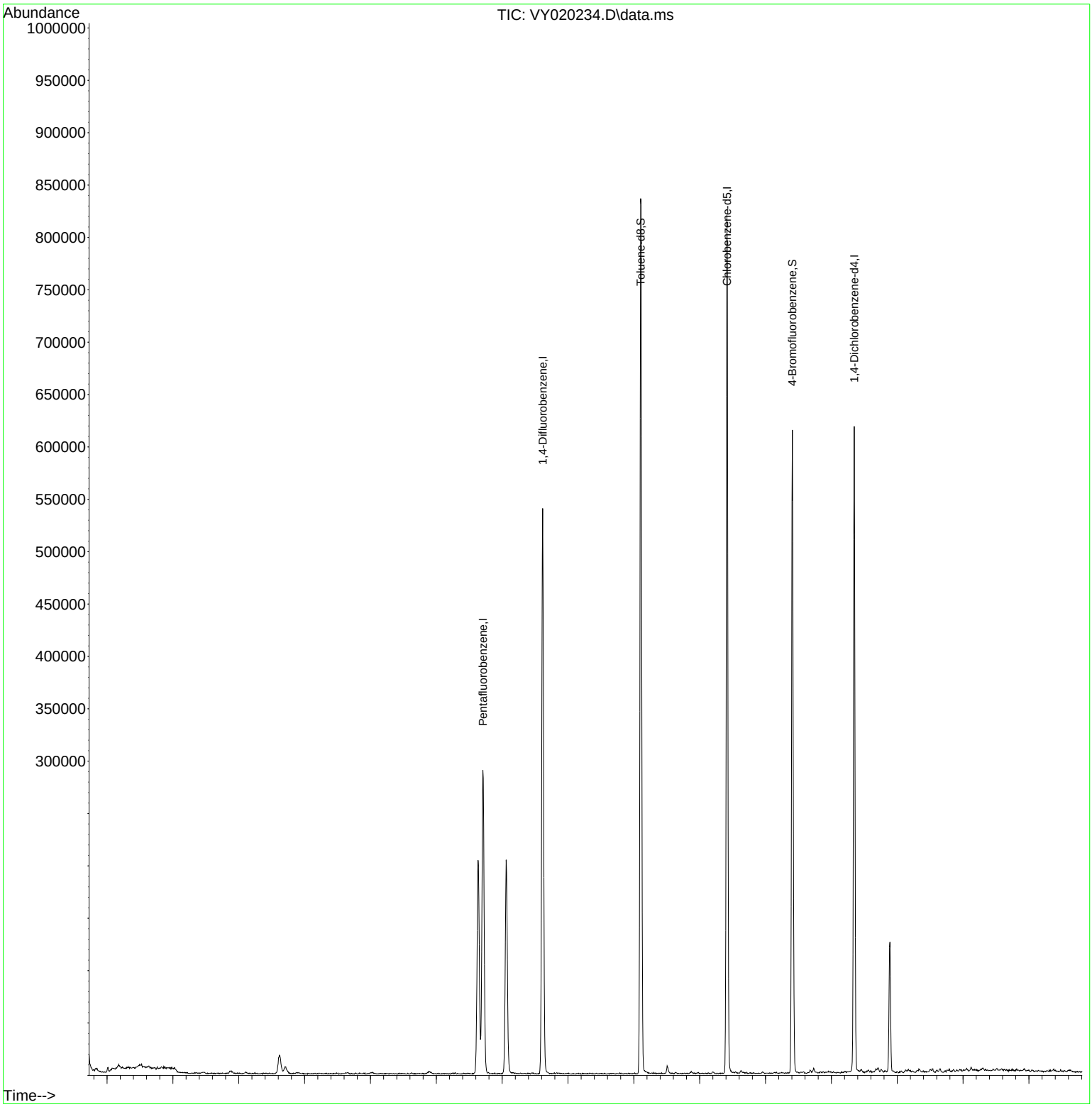
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	200262	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.615	114	428332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	399084	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	136217	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	157720	63.103	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 126.200%			
35) Dibromofluoromethane	7.634	113	140994	51.773	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.540%			
50) Toluene-d8	10.103	98	531619	49.042	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.080%			
62) 4-Bromofluorobenzene	12.408	95	167289	47.512	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 95.020%			
Target Compounds						Qvalue
16) Acetone	3.885	43	4260	7.329	ug/l #	81
20) Methylene Chloride	4.616	84	12182	4.665	ug/l #	82

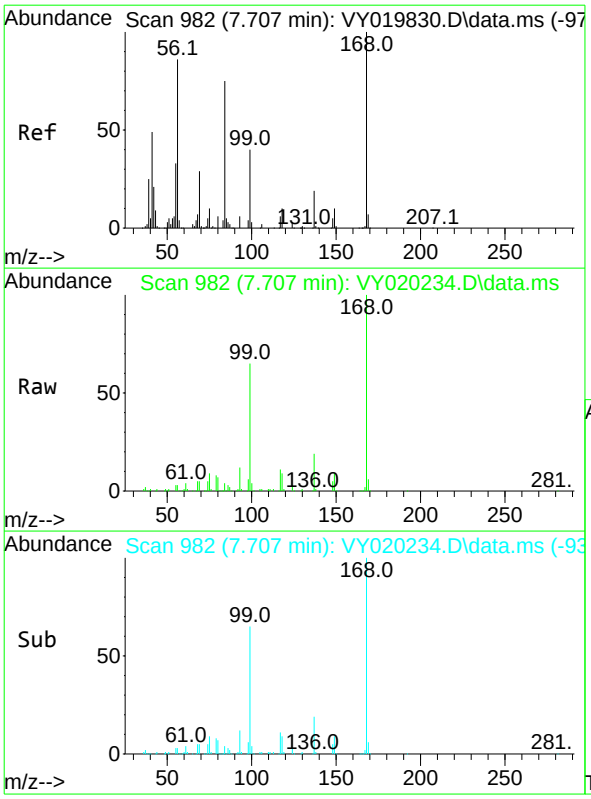
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 22:20:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



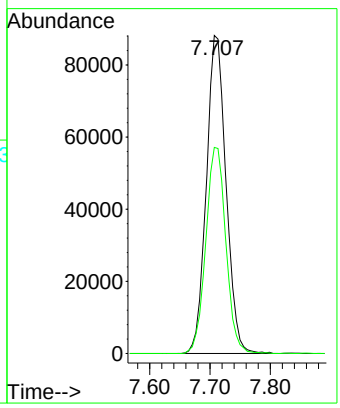


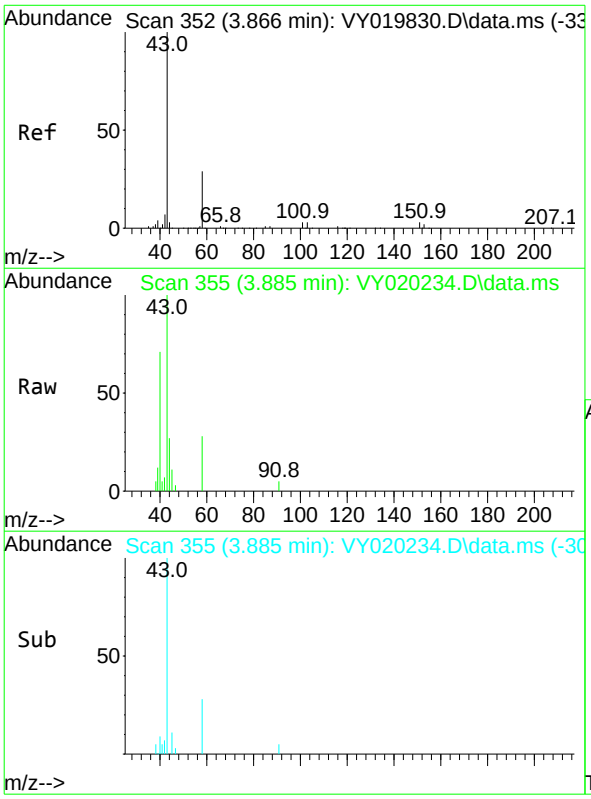
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion:168 Resp: 200262

Ion	Ratio	Lower	Upper
168	100		
99	64.8	39.1	58.7#

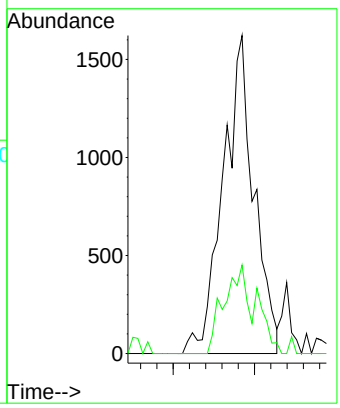


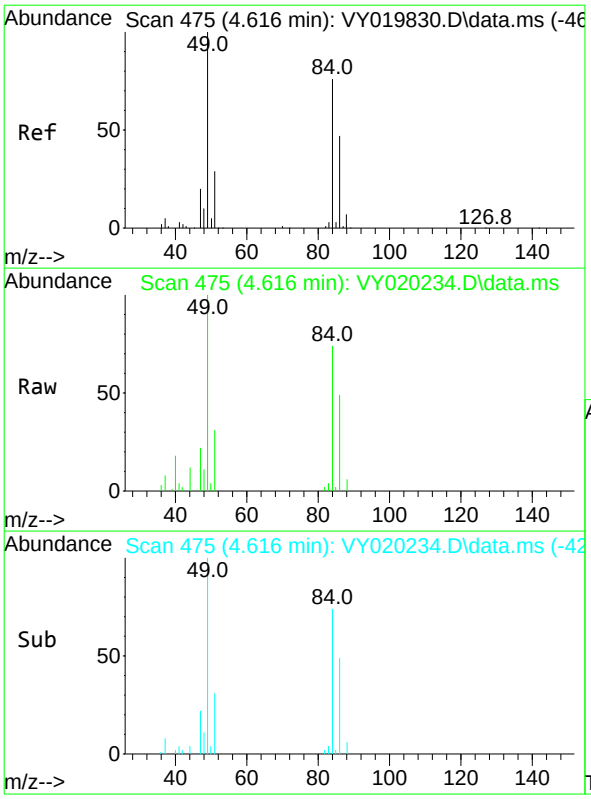


#16
Acetone
Concen: 7.329 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 43 Resp: 4260

Ion	Ratio	Lower	Upper
43	100		
58	27.9	31.7	47.5#



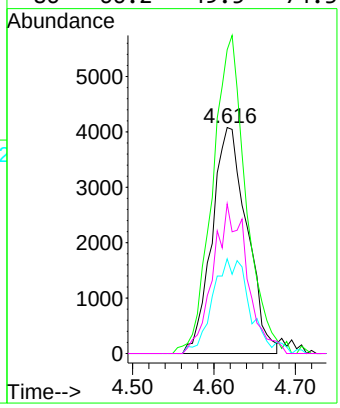


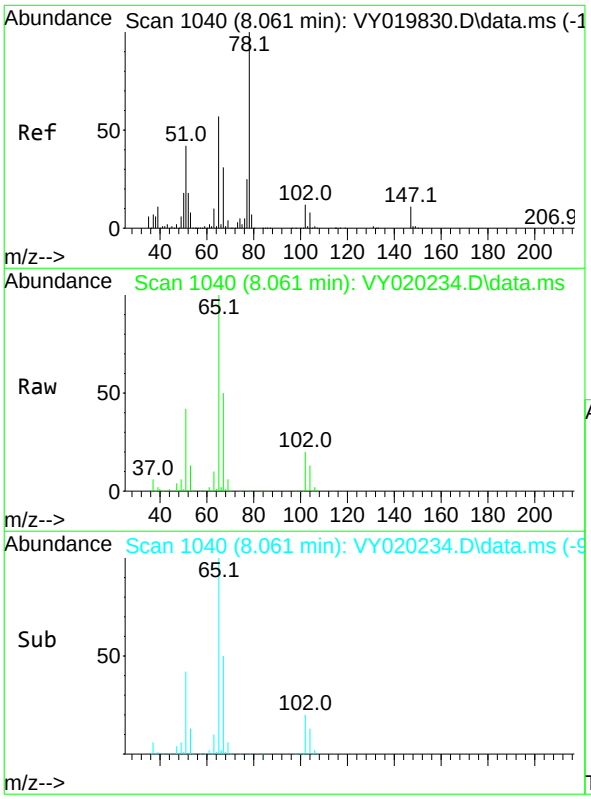
#20
Methylene Chloride
Concen: 4.665 ug/l
RT: 4.616 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion: 84 Resp: 12182

Ion	Ratio	Lower	Upper
84	100		
49	131.8	84.4	126.6#
51	41.9	26.0	39.0#
86	66.2	49.5	74.3

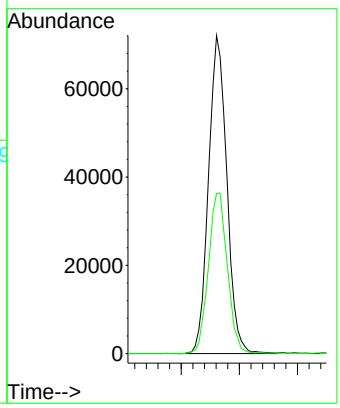


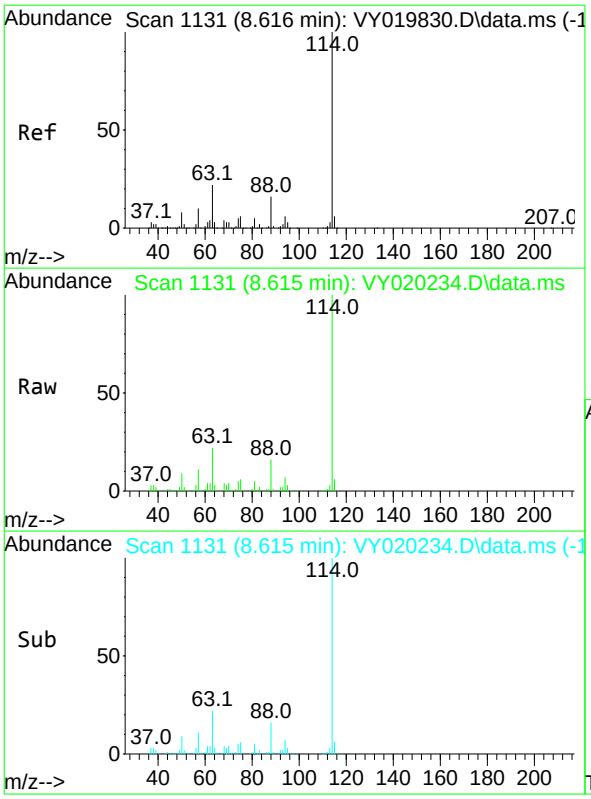


#33
1,2-Dichloroethane-d4
Concen: 63.103 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 65 Resp: 157720

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	109.6



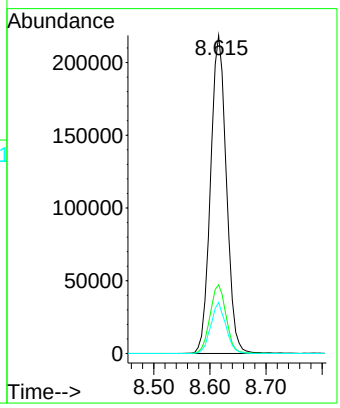


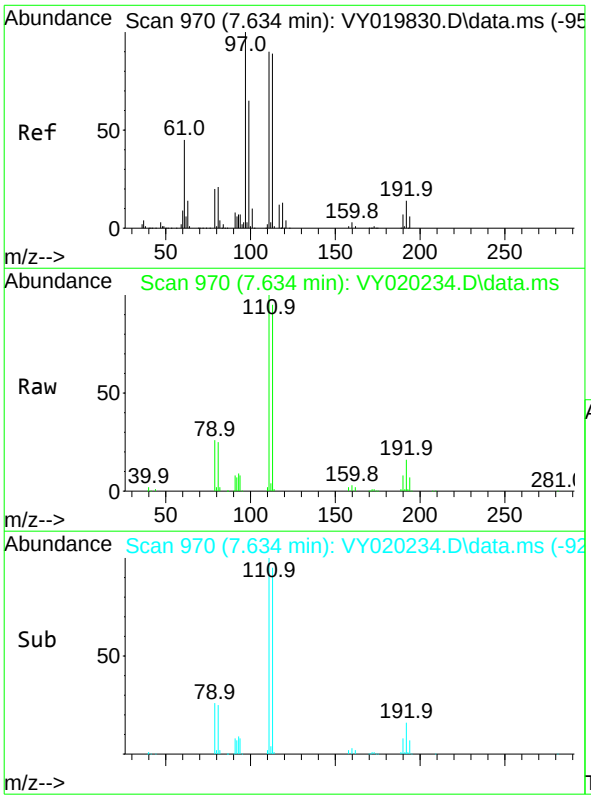
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion:114 Resp: 428332

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	35.0
88	16.1	0.0	27.2

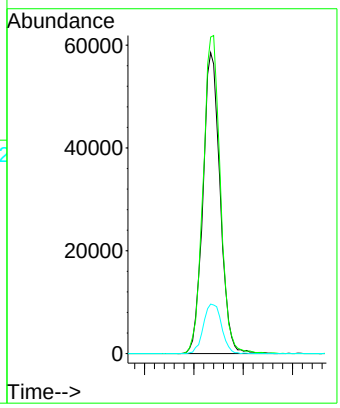


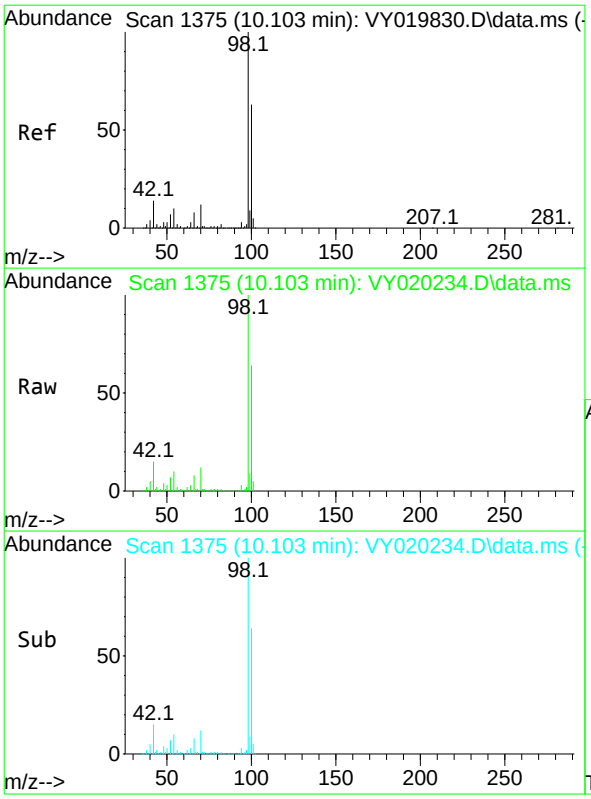


#35
Dibromofluoromethane
Concen: 51.773 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion:113 Resp: 140994

Ion	Ratio	Lower	Upper
113	100		
111	106.2	82.2	123.4
192	17.5	15.9	23.9



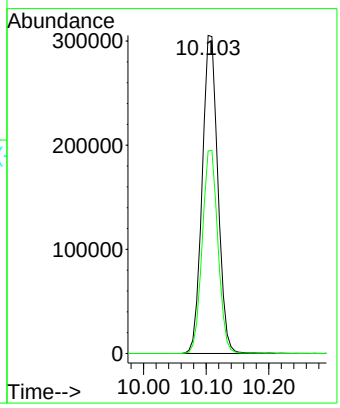


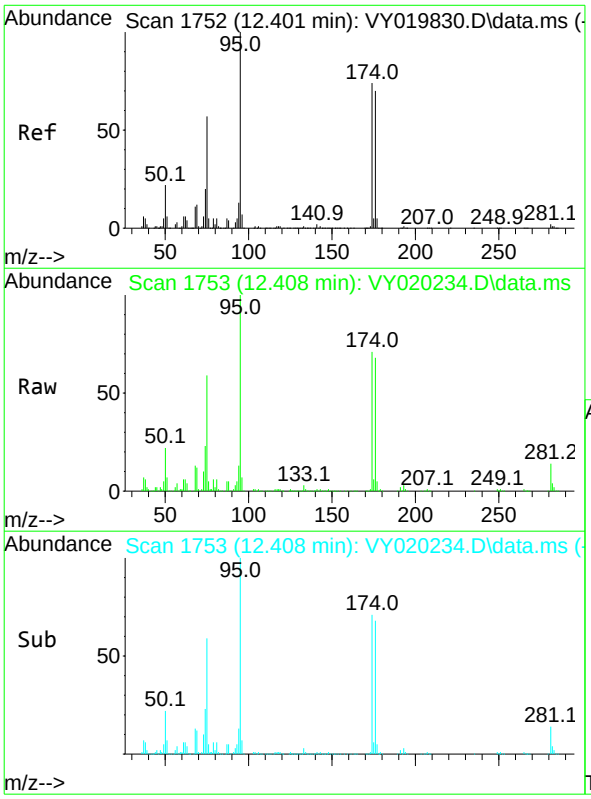
#50
Toluene-d8
Concen: 49.042 ug/l
RT: 10.103 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion: 98 Resp: 531619

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0

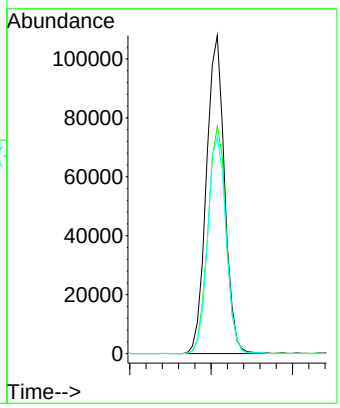


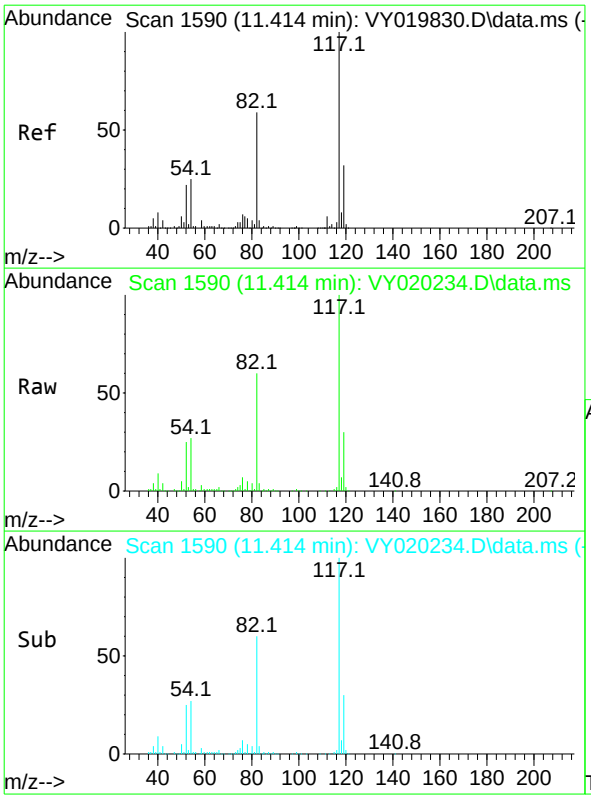


#62
4-Bromofluorobenzene
Concen: 47.512 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion: 95 Resp: 167289

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	175.6
176	69.2	0.0	171.4



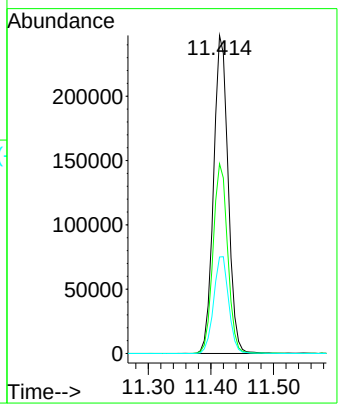


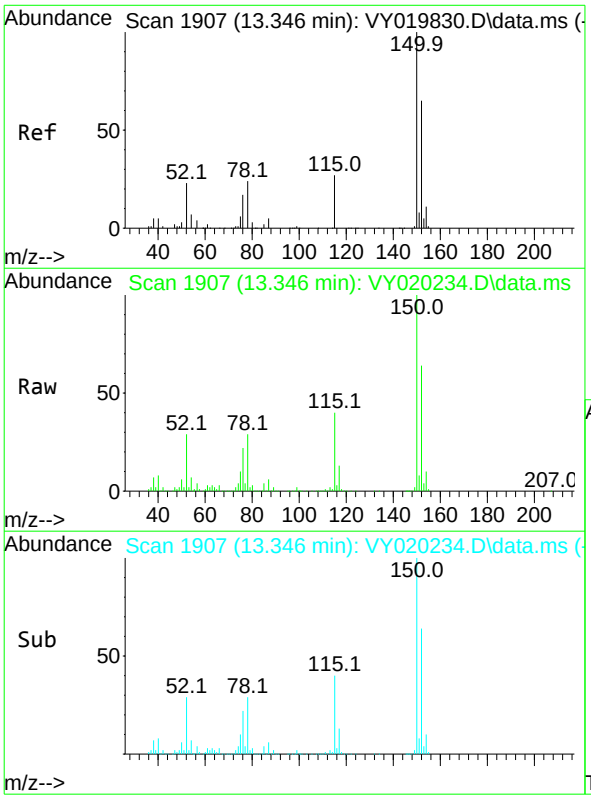
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Tgt Ion:117 Resp: 399084

Ion	Ratio	Lower	Upper
117	100		
82	59.6	42.4	63.6
119	30.3	25.9	38.9

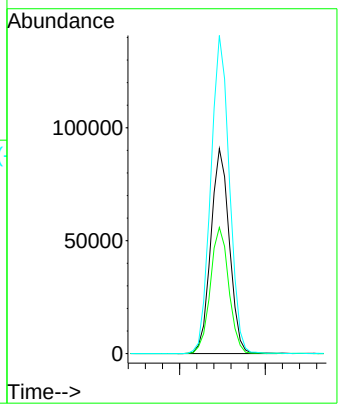




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020234.D
Acq: 08 Nov 2024 15:35

Tgt Ion:152 Resp: 136217

Ion	Ratio	Lower	Upper
152	100		
115	61.4	28.2	84.7
150	156.2	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-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\82Y103024S.M
Title : SW846 8260

Signal : TIC: VY020234.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	464	475	484	rBV	17653	55631	3.77%	0.718%
2	4.702	484	489	499	rVB3	6460	19549	1.33%	0.252%
3	7.634	957	970	976	rBV	204041	494887	33.55%	6.387%
4	7.707	976	982	993	rVB	289449	667907	45.28%	8.621%
5	8.061	1029	1040	1054	rBV	204433	454072	30.78%	5.861%
6	8.615	1121	1131	1142	rBV	539980	1064455	72.16%	13.739%
7	10.103	1366	1375	1388	rBV	835749	1475096	100.00%	19.039%
8	11.414	1580	1590	1600	rBV	819802	1332969	90.36%	17.204%
9	12.408	1745	1753	1764	rBV2	613834	1041542	70.61%	13.443%
10	13.346	1898	1907	1914	rBV	616011	938495	63.62%	12.113%
11	13.889	1988	1996	2003	rBV2	124067	203199	13.78%	2.623%

Sum of corrected areas: 7747802

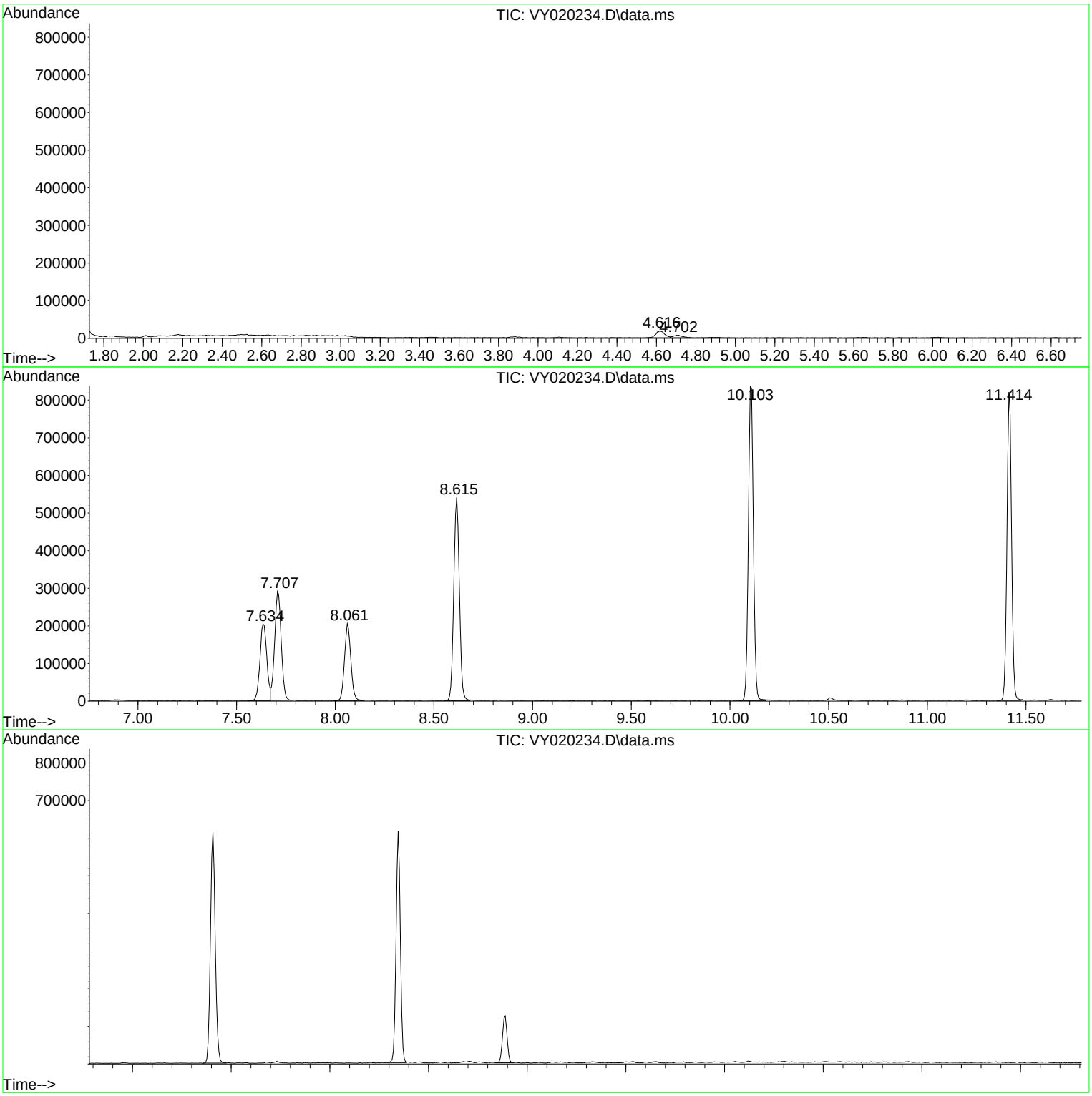
Sample Results: **VY020234.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VY110824\
Data File : VY020234.D
Acq On : 08 Nov 2024 15:35
Operator : SY/MD
Sample : P4718-02
Misc : 7.96g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-307-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Time: Nov 15 00:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

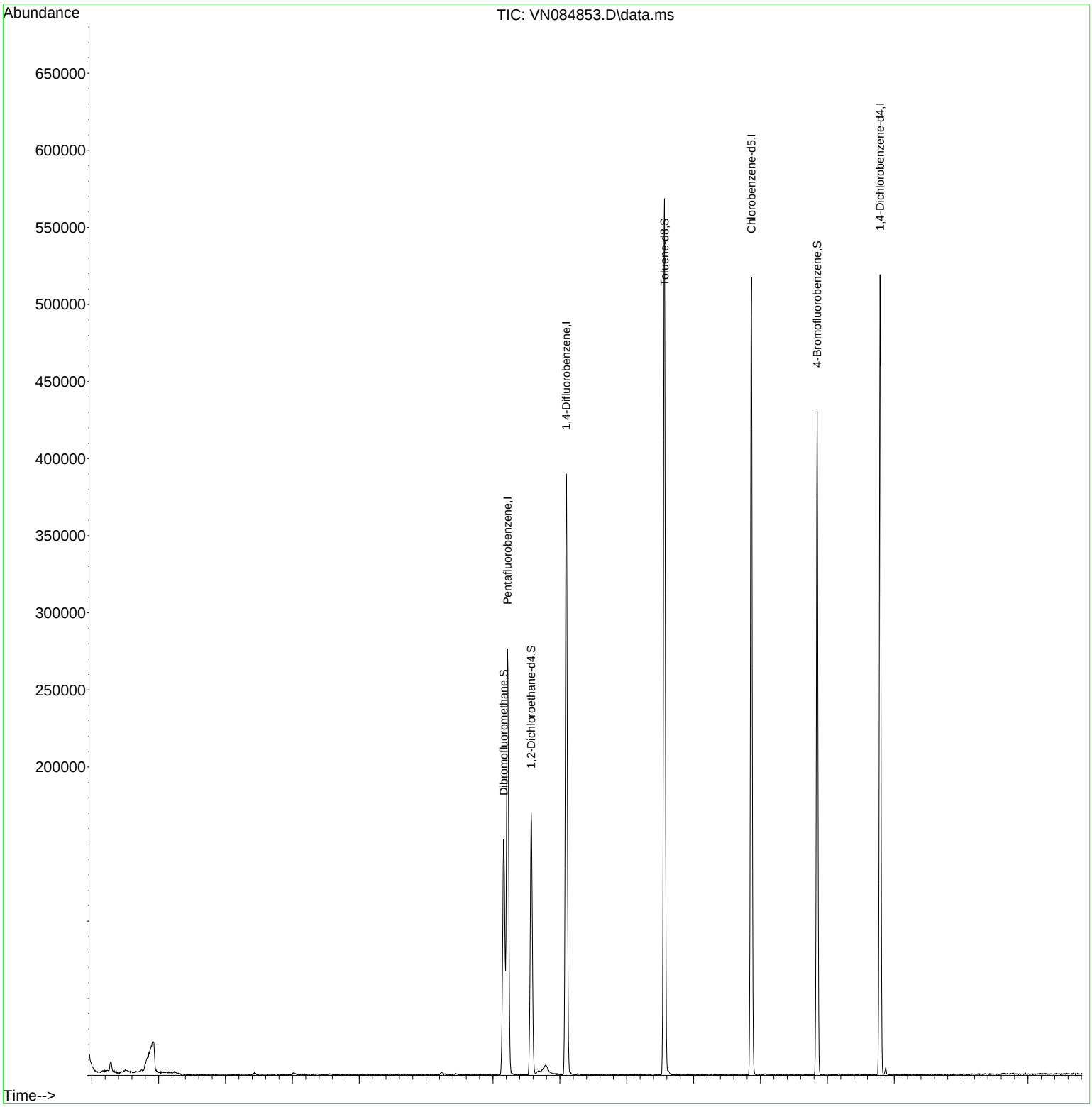
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	203676	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	345476	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136300	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	140566	47.783	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.560%		
35) Dibromofluoromethane	8.159	113	112509	48.113	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.220%		
50) Toluene-d8	10.565	98	397675	46.166	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.340%		
62) 4-Bromofluorobenzene	12.847	95	148708	46.192	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.380%		
Target Compounds						Qvalue

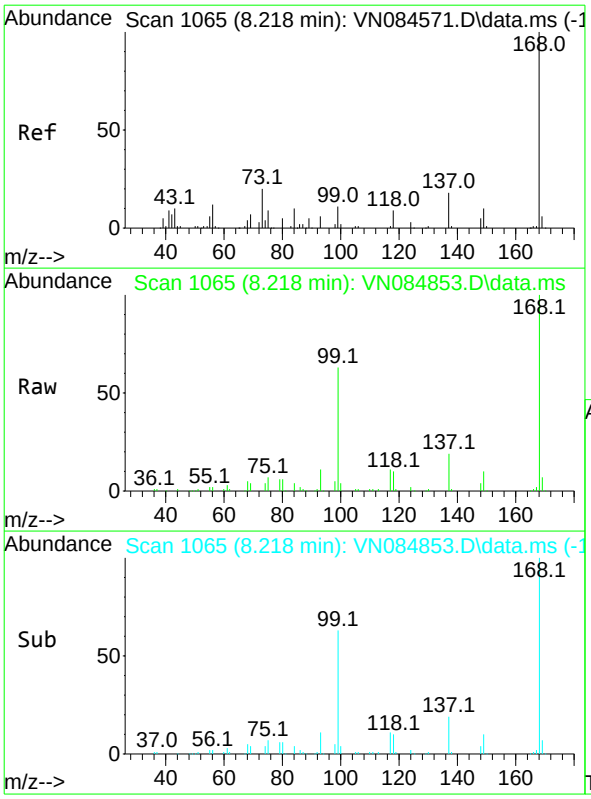
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Time: Nov 15 00:48:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



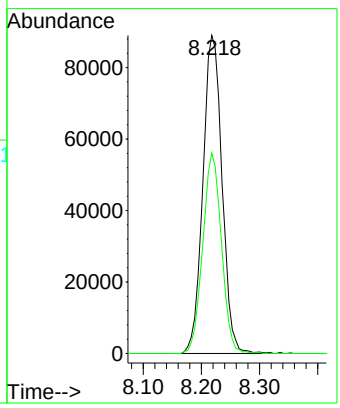


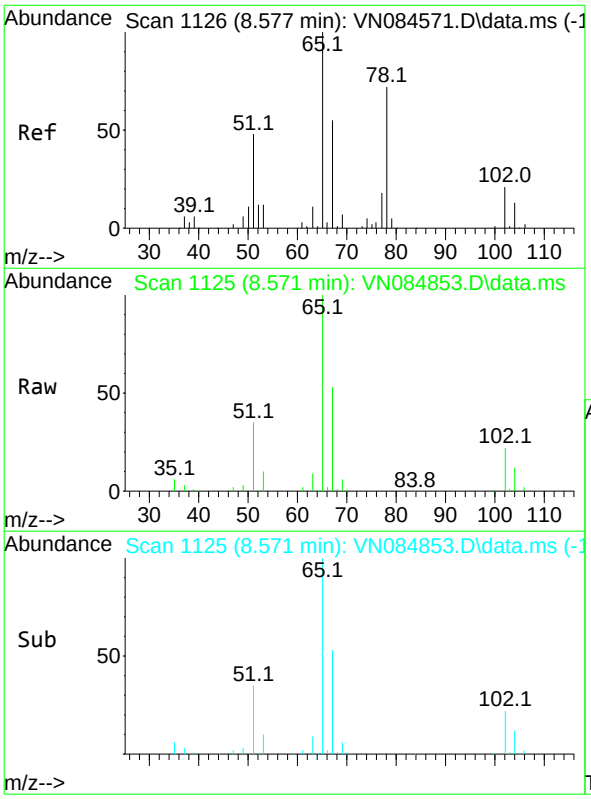
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion:168 Resp: 203676

Ion	Ratio	Lower	Upper
168	100		
99	63.0	54.2	81.2

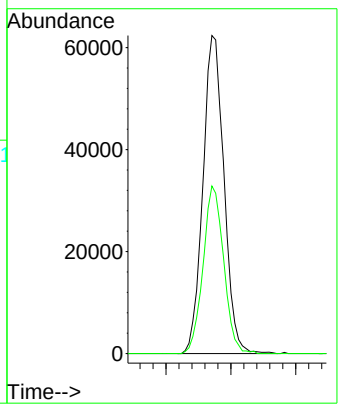


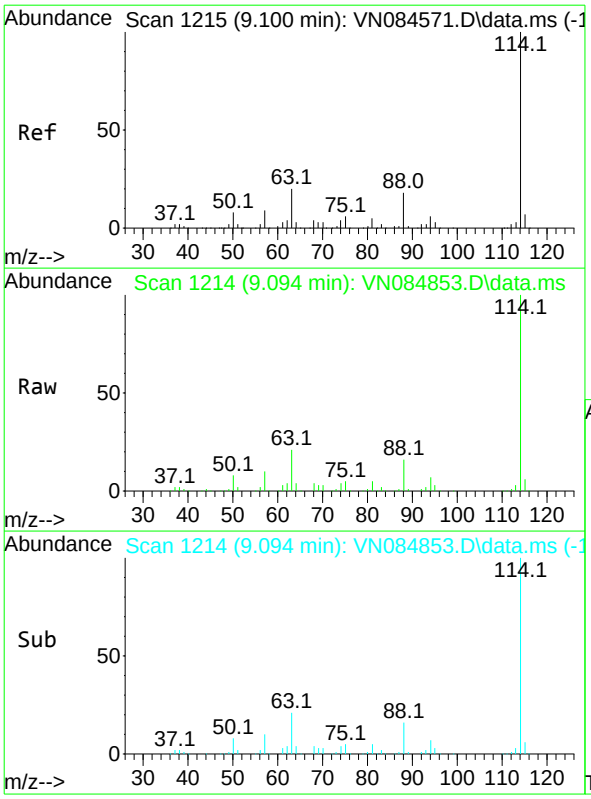


#33
1,2-Dichloroethane-d4
Concen: 47.783 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion: 65 Resp: 140566

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.0



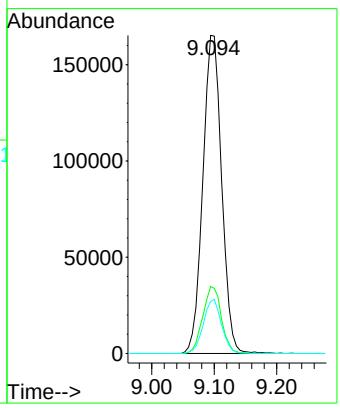


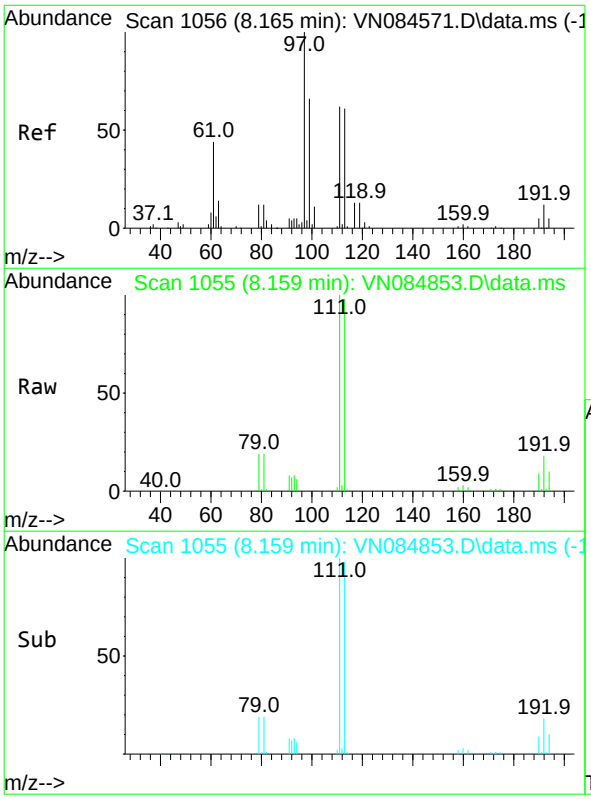
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion:114 Resp: 345476

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.8
88	16.4	0.0	31.6

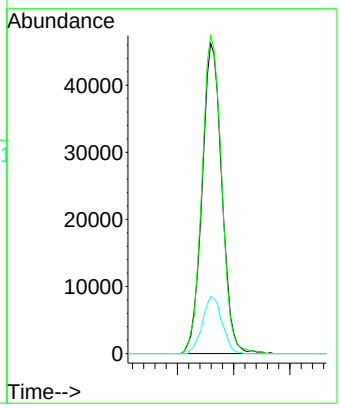


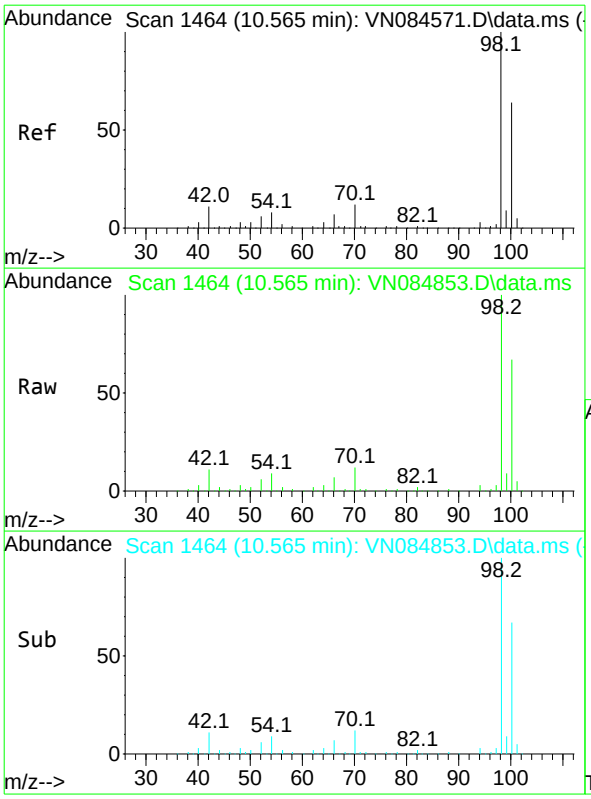


#35
Dibromofluoromethane
Concen: 48.113 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion:113 Resp: 112509

Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.3	124.9
192	18.4	13.5	20.3



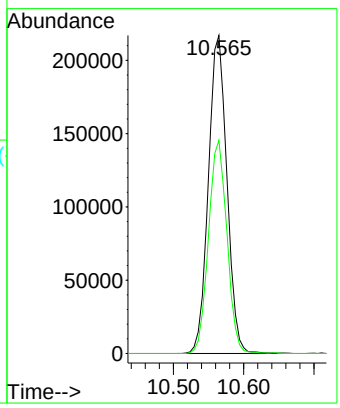


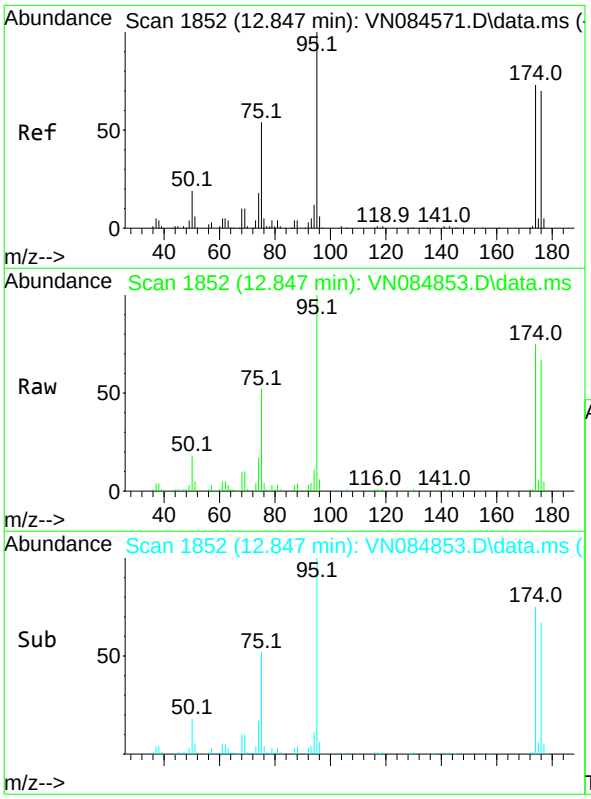
#50
Toluene-d8
Concen: 46.166 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion: 98 Resp: 397675

Ion	Ratio	Lower	Upper
98	100		
100	66.6	52.7	79.1

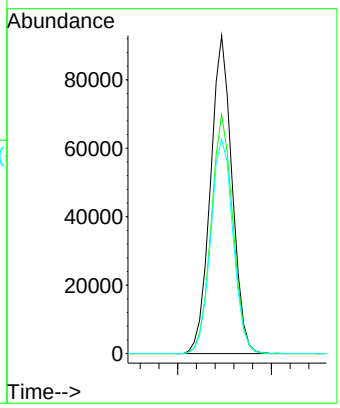


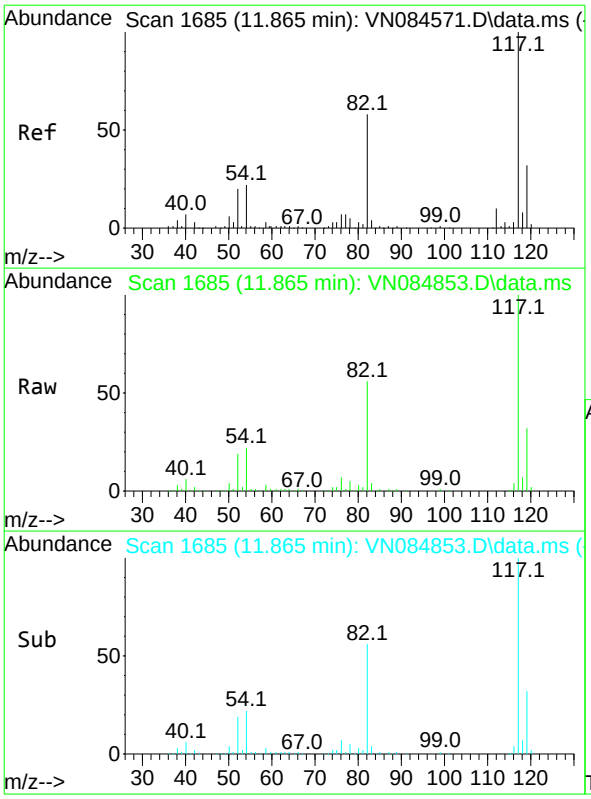


#62
4-Bromofluorobenzene
Concen: 46.192 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion: 95 Resp: 148708

Ion	Ratio	Lower	Upper
95	100		
174	75.7	0.0	145.2
176	70.0	0.0	140.0



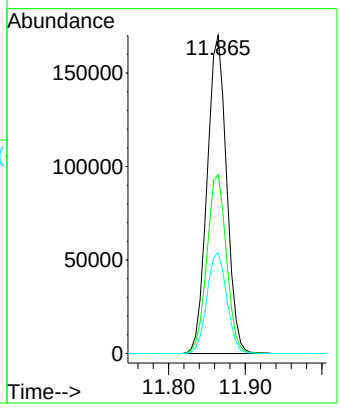


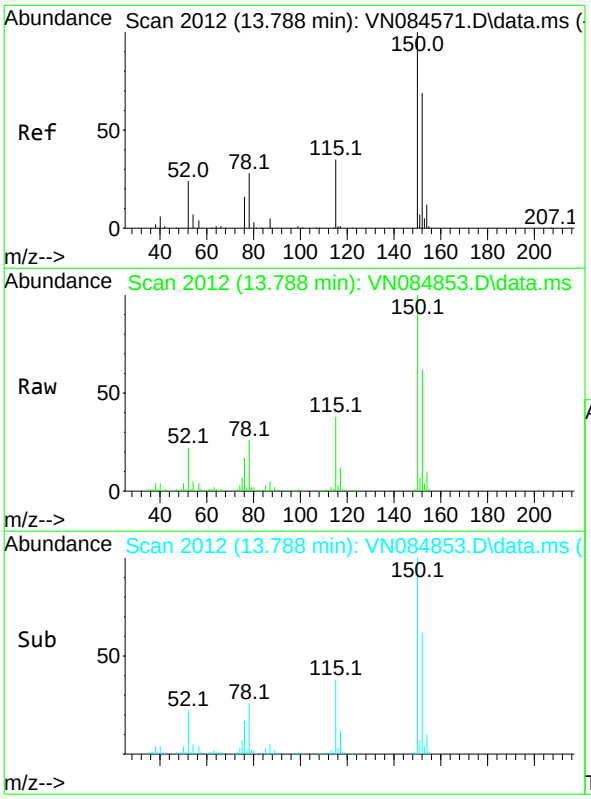
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Tgt Ion:117 Resp: 299825

Ion	Ratio	Lower	Upper
117	100		
82	56.3	47.2	70.8
119	31.8	25.4	38.0

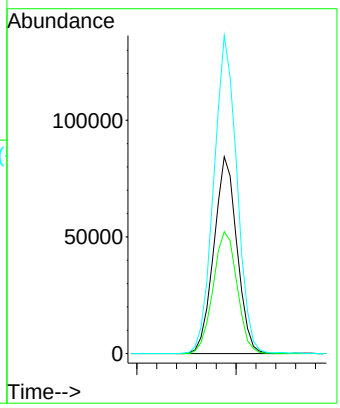




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084853.D
Acq: 14 Nov 2024 15:47

Tgt Ion:152 Resp: 136300

Ion	Ratio	Lower	Upper
152	100		
115	64.3	31.3	93.9
150	162.3	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

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\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084853.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.289	52	57	64	rVB4	7051	13864	1.32%	0.242%
2	2.836	139	150	151	rBV4	9011	21839	2.08%	0.381%
3	2.906	151	162	163	rBV5	10463	25958	2.48%	0.453%
4	8.159	1045	1055	1060	rBV	152805	372002	35.47%	6.491%
5	8.218	1060	1065	1074	rVB	275210	605931	57.78%	10.572%
6	8.571	1117	1125	1135	rBV	170467	375585	35.82%	6.553%
7	9.094	1205	1214	1225	rBV	389991	807012	76.96%	14.081%
8	10.565	1455	1464	1472	rBV	568251	1048669	100.00%	18.297%
9	11.865	1677	1685	1696	rBV	517163	916171	87.37%	15.985%
10	12.847	1844	1852	1861	rBV	430564	699970	66.75%	12.213%
11	13.788	2005	2012	2022	rVB	518697	844413	80.52%	14.733%

Sum of corrected areas: 5731414

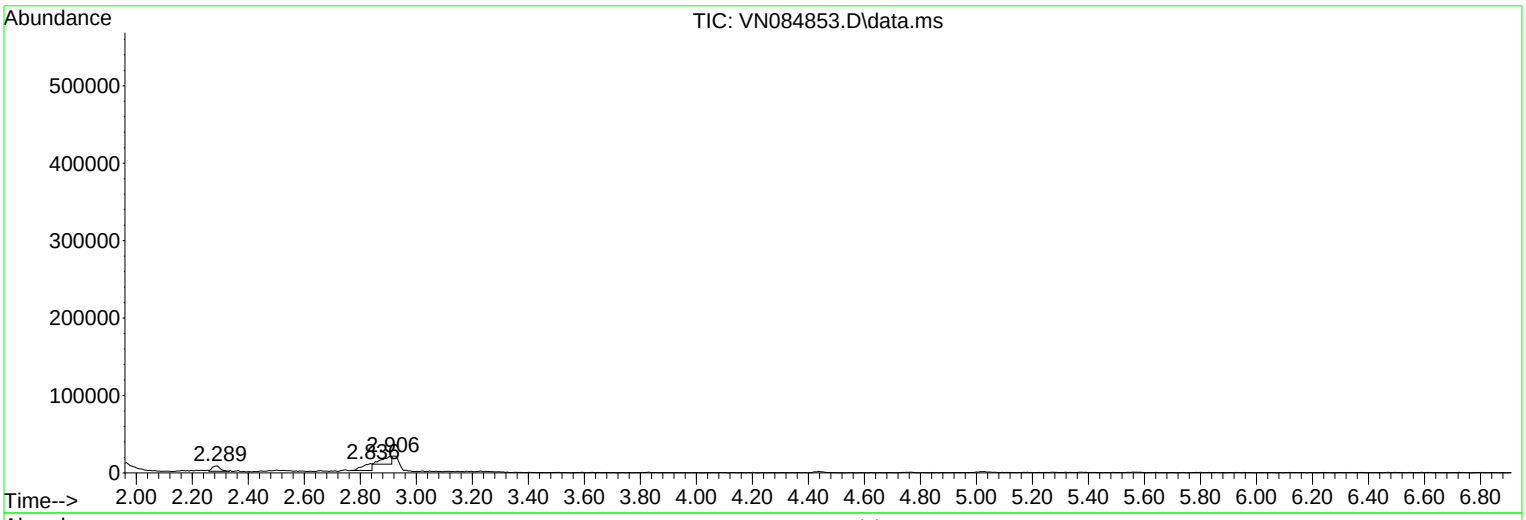
Sample Results: **VN084853.D**

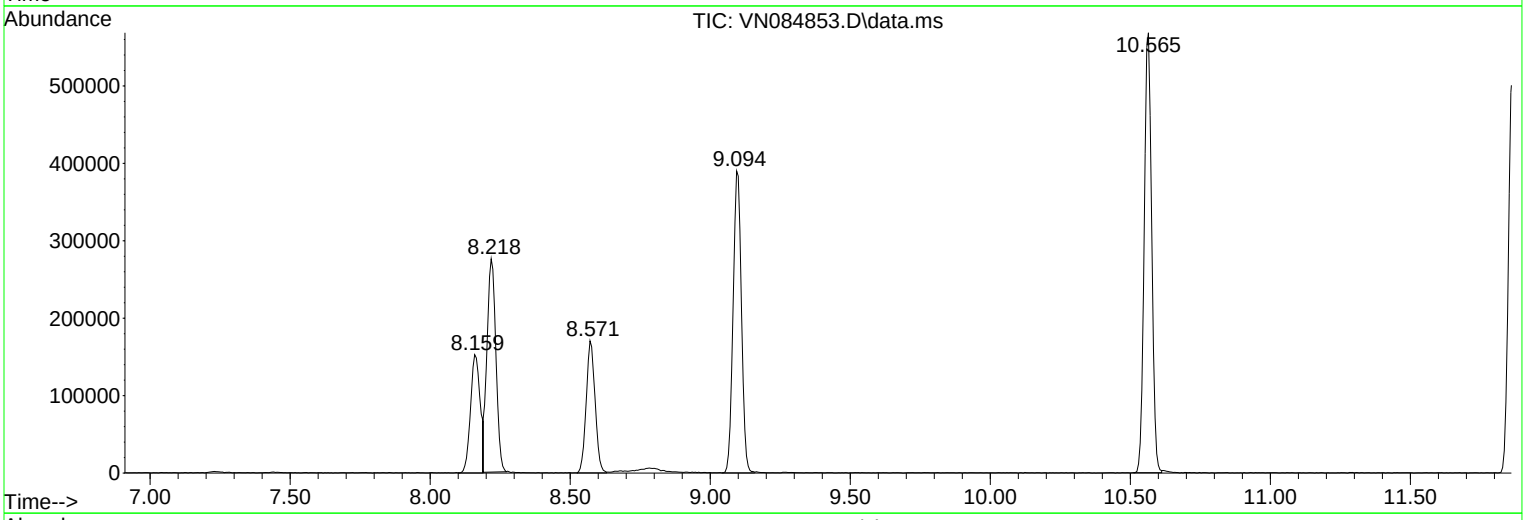
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

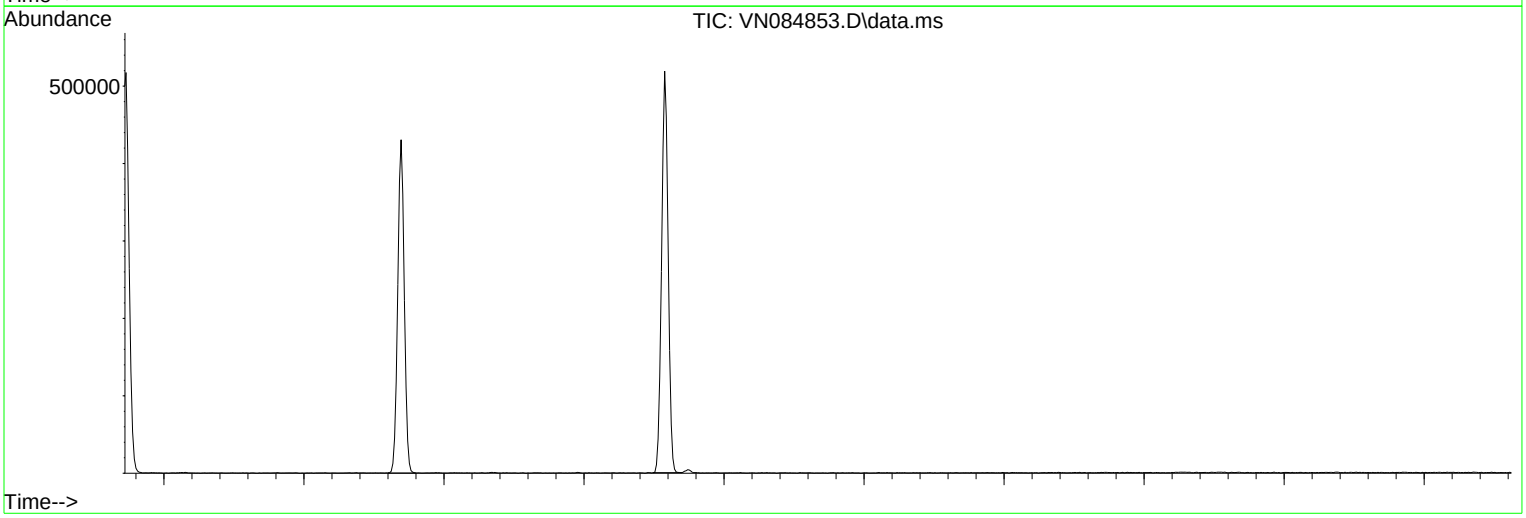
Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084853.D
Acq On : 14 Nov 2024 15:47
Operator : JC\MD
Sample : P4718-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WB-307-SW

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Time: Nov 15 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

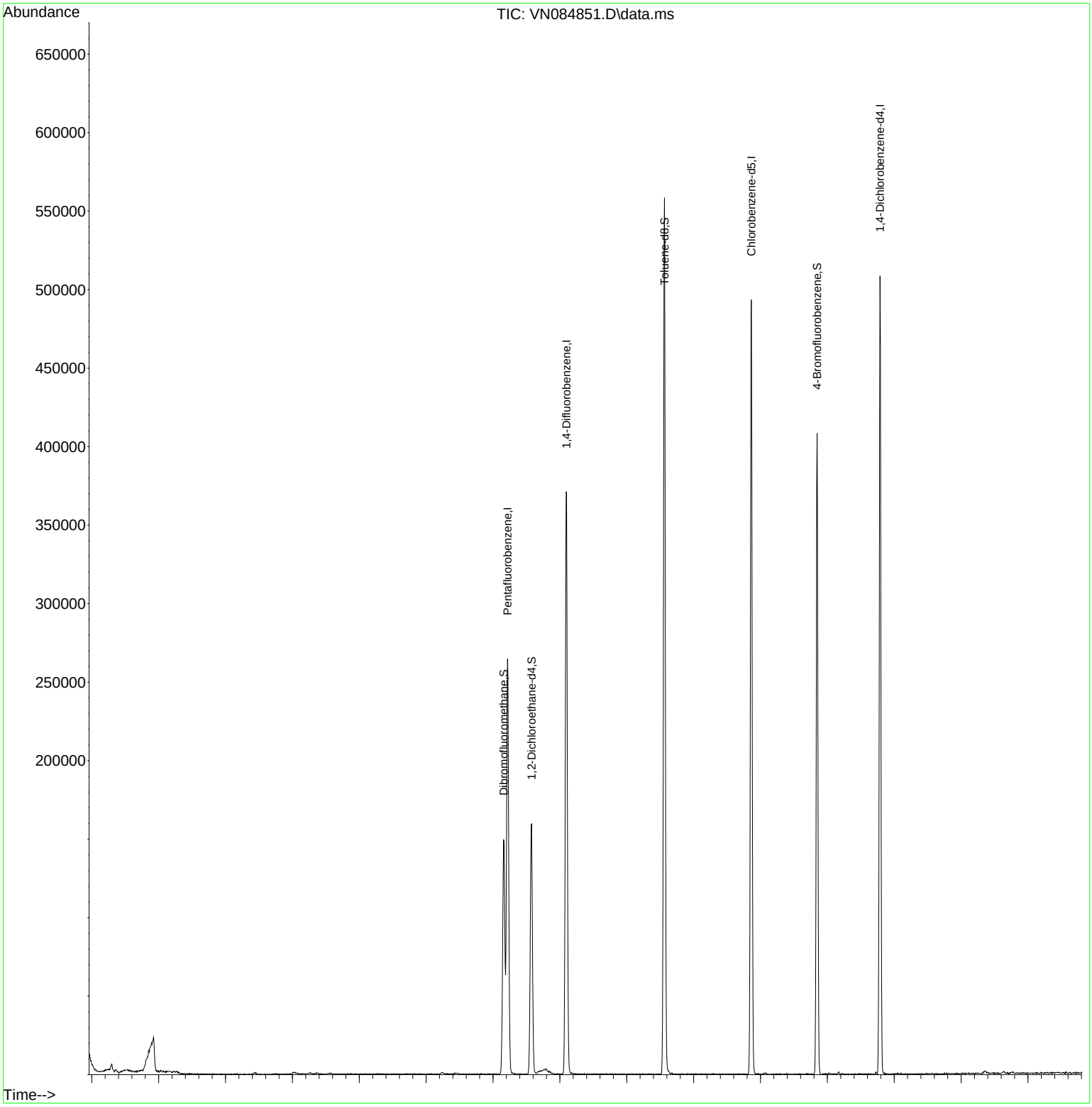
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	193262	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	335586	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136820	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134514	48.189	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.380%		
35) Dibromofluoromethane	8.159	113	107135	47.165	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.320%		
50) Toluene-d8	10.565	98	384699	45.975	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.960%		
62) 4-Bromofluorobenzene	12.847	95	147170	47.061	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.120%		
Target Compounds						Qvalue

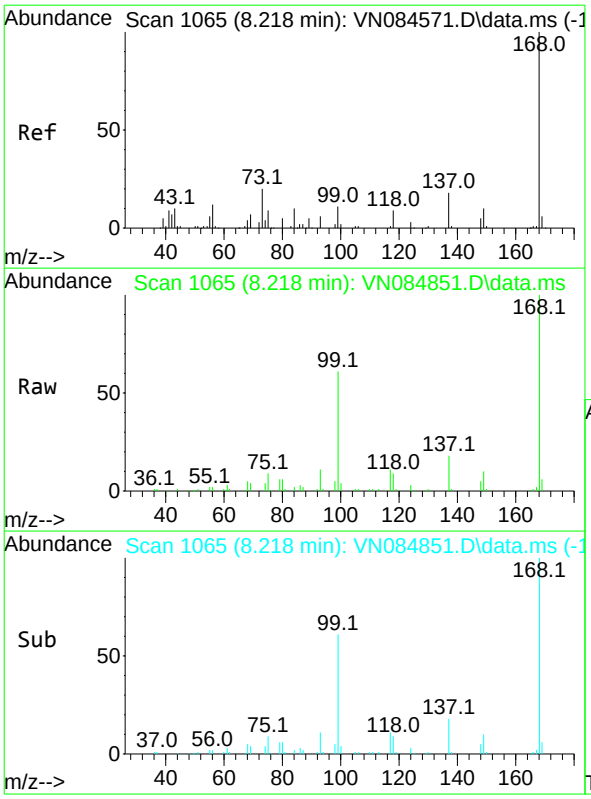
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Time: Nov 15 00:48:01 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



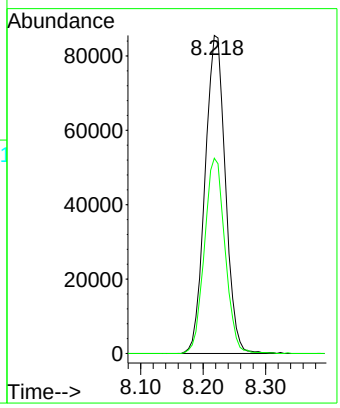


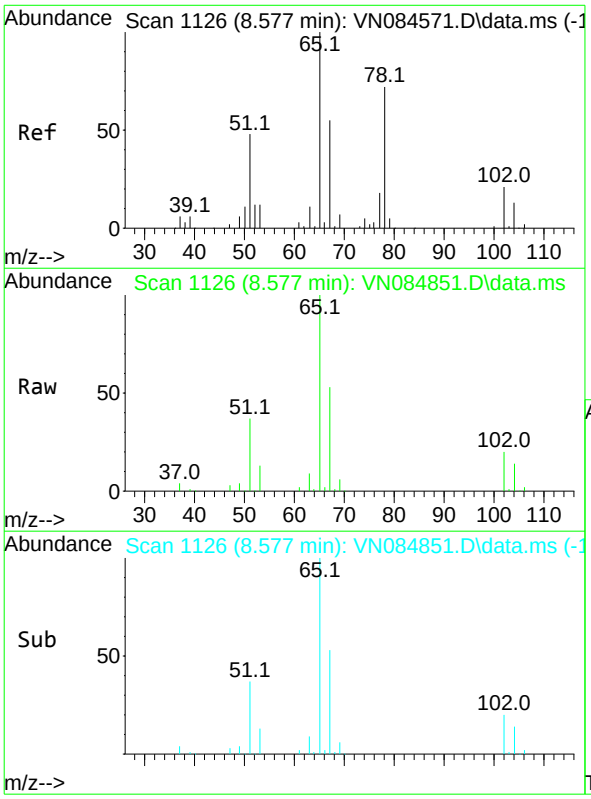
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion:168 Resp: 193262

Ion	Ratio	Lower	Upper
168	100		
99	61.4	54.2	81.2

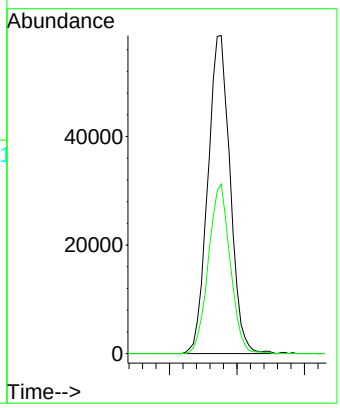


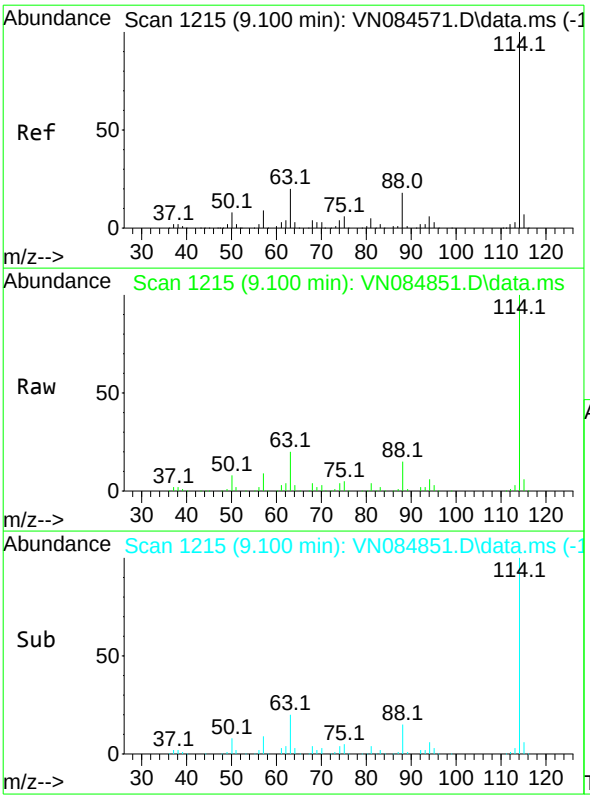


#33
1,2-Dichloroethane-d4
Concen: 48.189 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion: 65 Resp: 134514

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	102.0



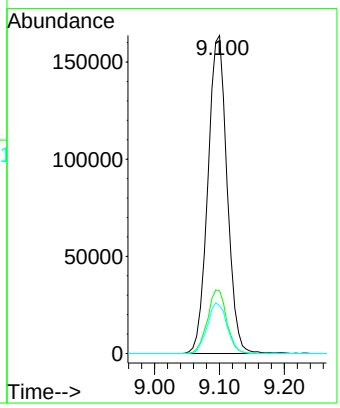


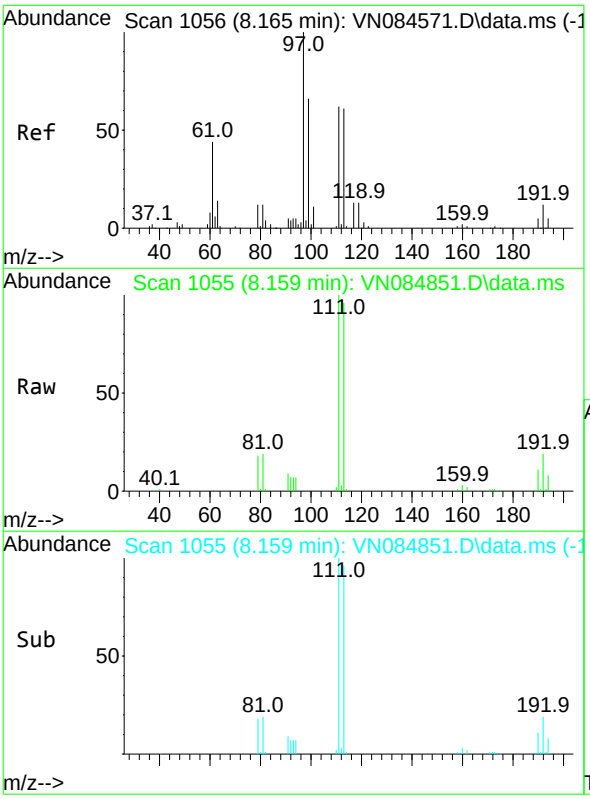
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion:114 Resp: 335586

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	43.8
88	15.1	0.0	31.6

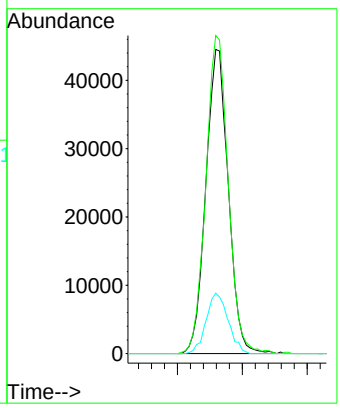


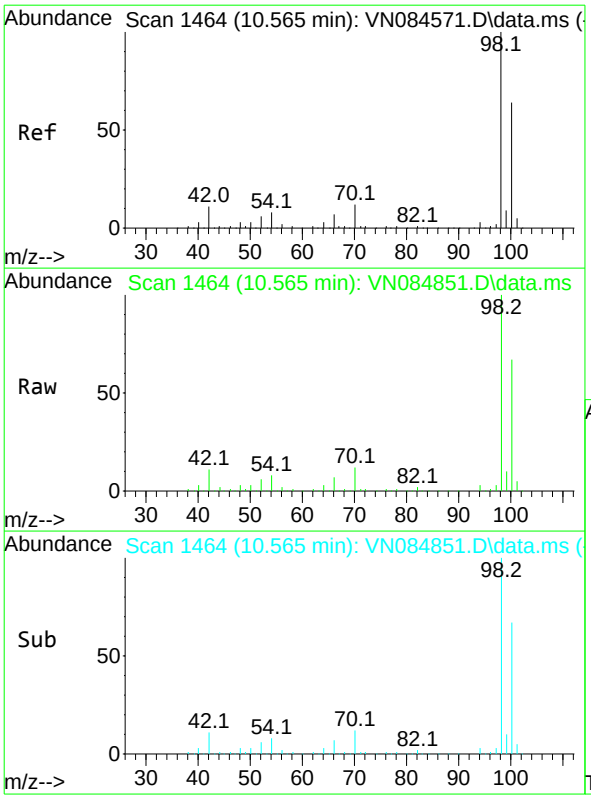


#35
Dibromofluoromethane
Concen: 47.165 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion:113 Resp: 107135

Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.3	124.9
192	19.4	13.5	20.3



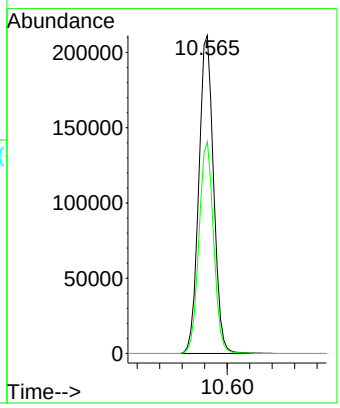


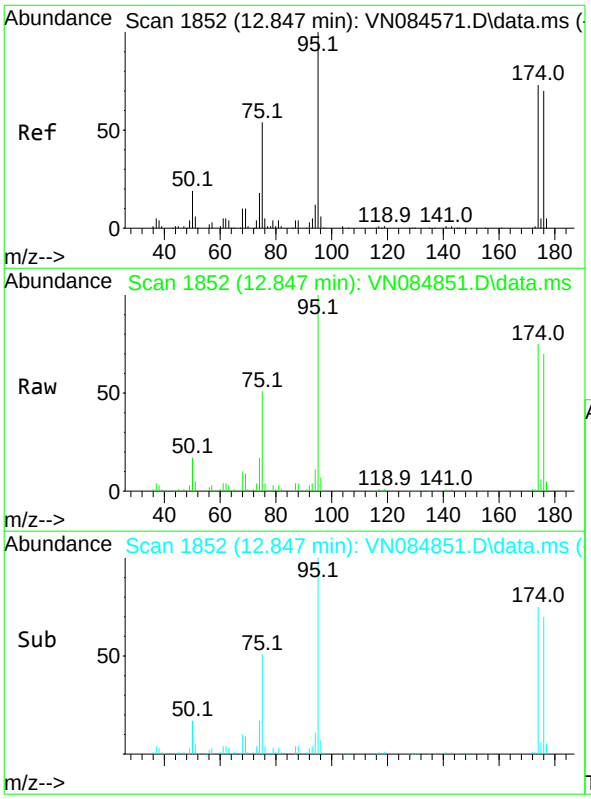
#50
Toluene-d8
Concen: 45.975 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion: 98 Resp: 384699

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.7	79.1

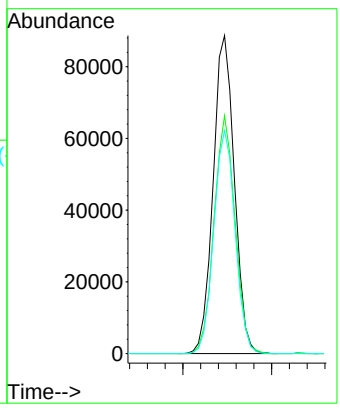


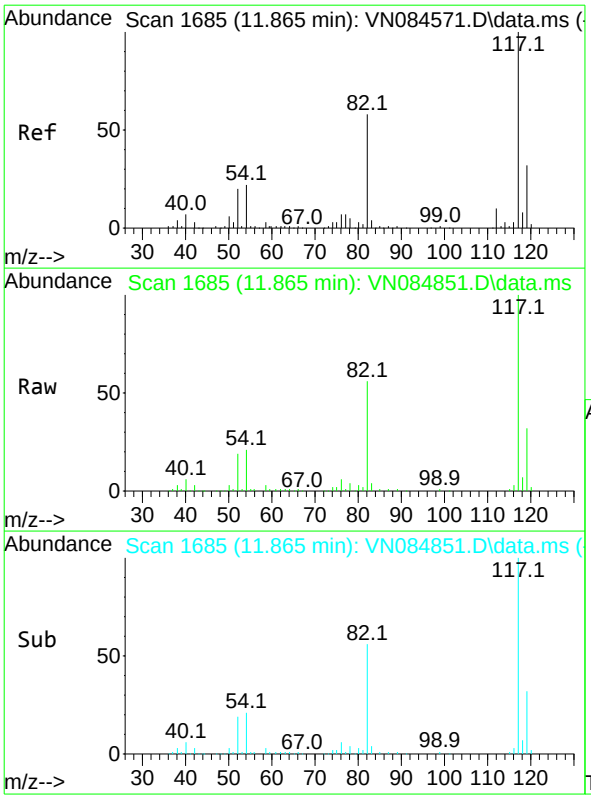


#62
4-Bromofluorobenzene
Concen: 47.061 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion: 95 Resp: 147170

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	145.2
176	70.4	0.0	140.0



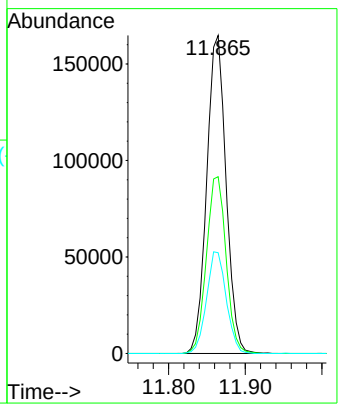


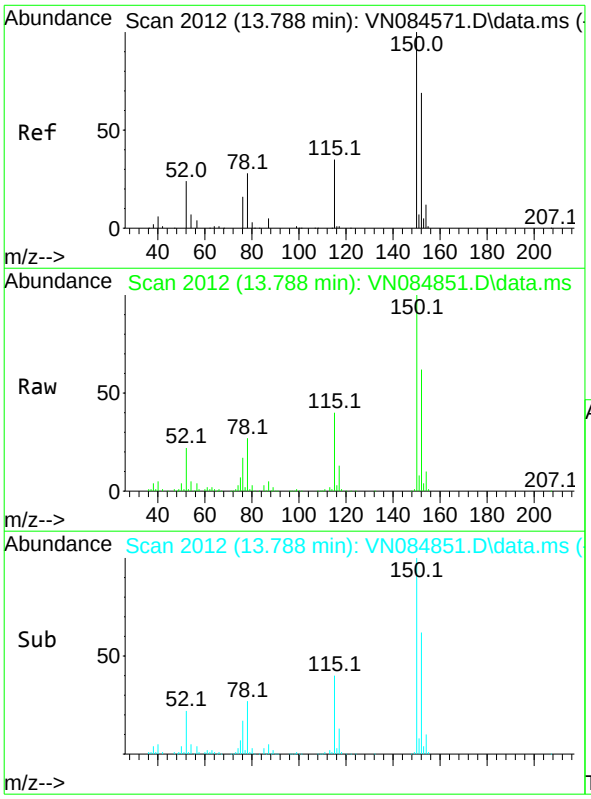
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. -0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Tgt Ion:117 Resp: 288886

Ion	Ratio	Lower	Upper
117	100		
82	55.6	47.2	70.8
119	31.7	25.4	38.0

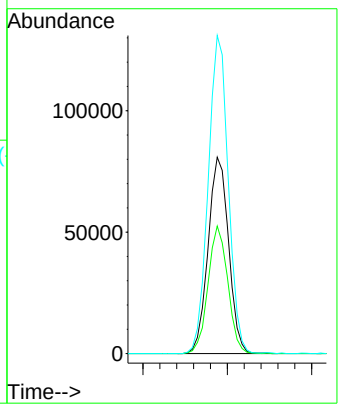




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084851.D
Acq: 14 Nov 2024 14:59

Tgt Ion:152 Resp: 136820

Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.3	93.9
150	158.2	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

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\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084851.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.812	138	146	147	rBV	7379	12410	1.22%	0.222%
2	2.924	154	165	172	rVB4	21589	83495	8.23%	1.492%
3	8.159	1044	1055	1060	rBV	149526	356274	35.11%	6.367%
4	8.218	1060	1065	1076	rVB	263937	582132	57.36%	10.404%
5	8.577	1116	1126	1136	rBV	159657	362261	35.70%	6.474%
6	9.094	1204	1214	1226	rBV	370816	774636	76.33%	13.844%
7	10.565	1454	1464	1479	rBV	558325	1014793	100.00%	18.136%
8	11.865	1677	1685	1695	rBV	493592	884489	87.16%	15.808%
9	12.847	1843	1852	1861	rVB	408355	686073	67.61%	12.261%
10	13.788	2005	2012	2021	rBV	508600	838803	82.66%	14.991%

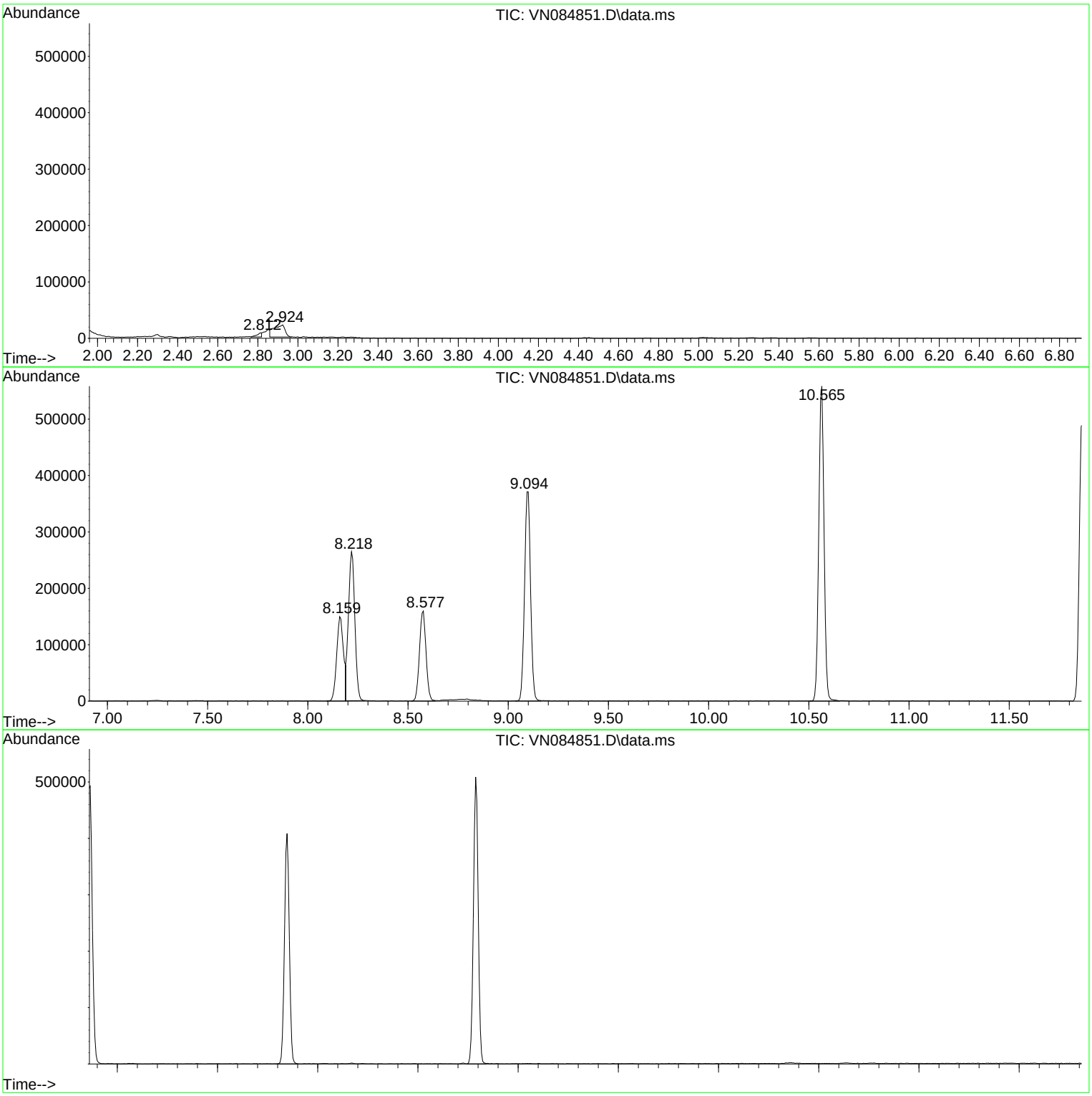
Sum of corrected areas: 5595366

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084851.D
Acq On : 14 Nov 2024 14:59
Operator : JC\MD
Sample : P4718-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-11042024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Time: Nov 15 00:42:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

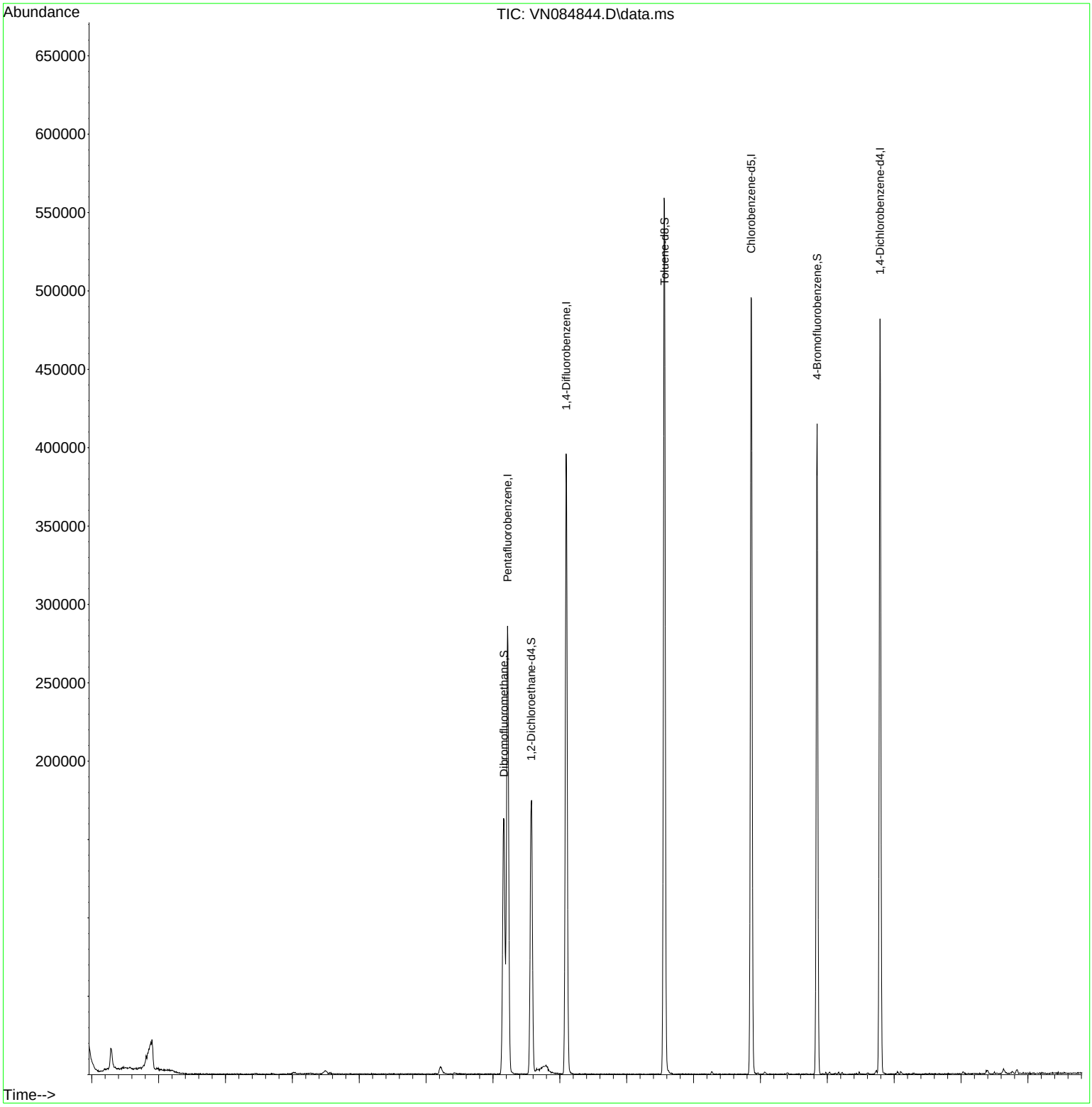
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	203029	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	340637	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	293869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131669	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	149395	50.946	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.900%			
35) Dibromofluoromethane	8.165	113	119930	52.015	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.020%			
50) Toluene-d8	10.565	98	393047	46.276	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.560%			
62) 4-Bromofluorobenzene	12.847	95	149177	46.995	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.000%			
Target Compounds						Qvalue

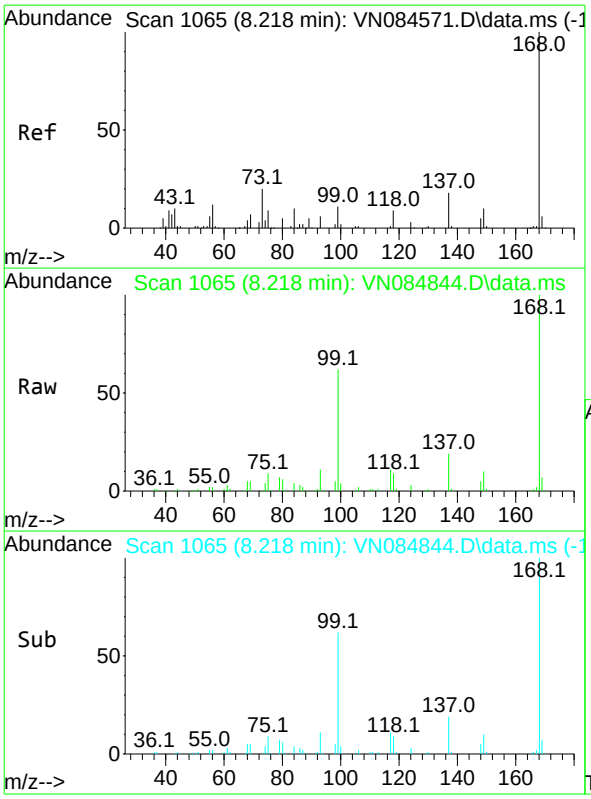
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Time: Nov 15 00:42:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration



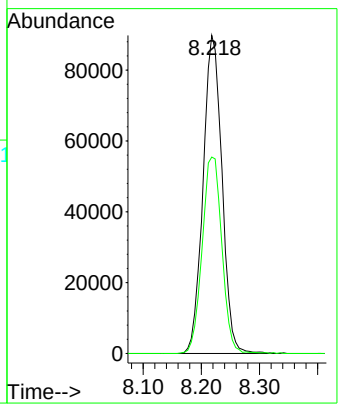


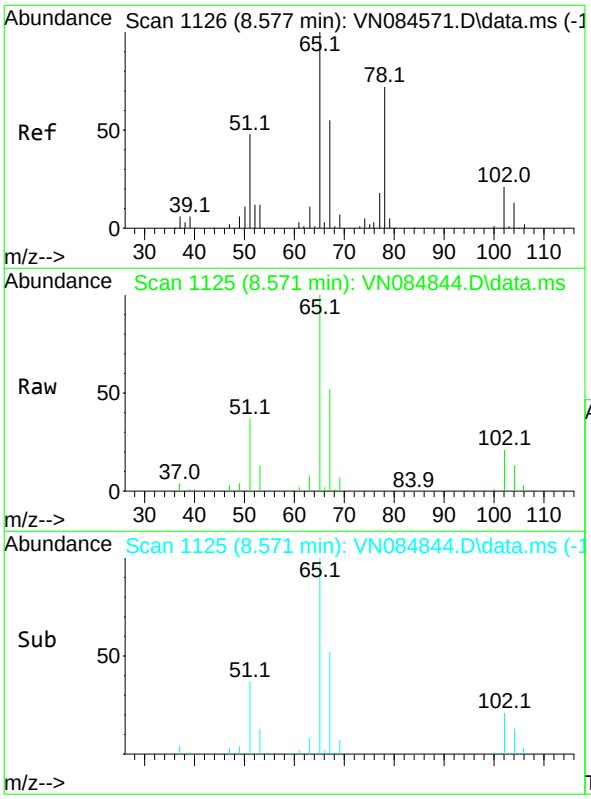
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion:168 Resp: 203029

Ion	Ratio	Lower	Upper
168	100		
99	61.8	54.2	81.2

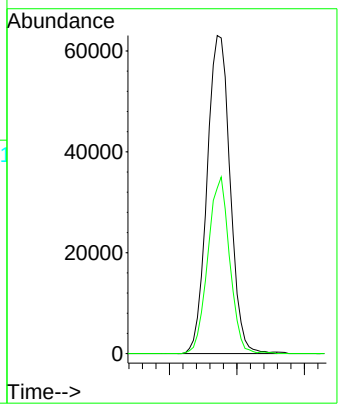


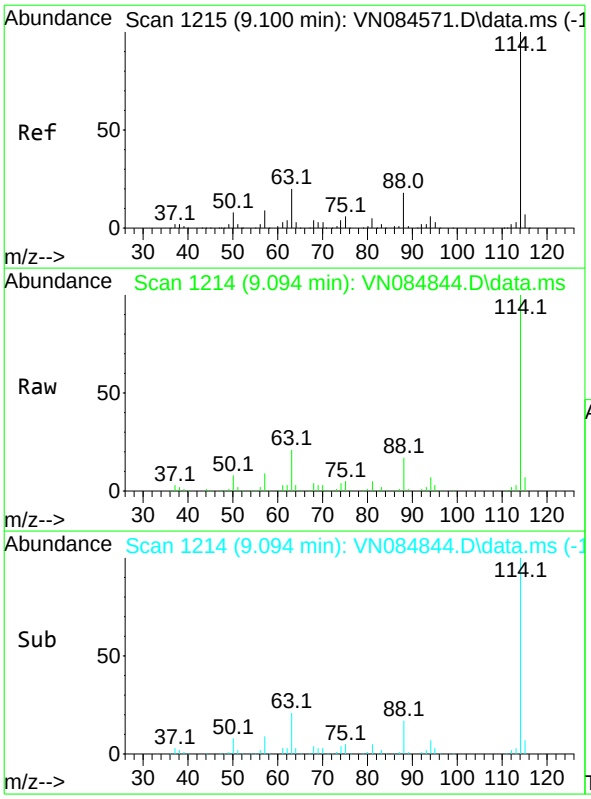


#33
1,2-Dichloroethane-d4
Concen: 50.946 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion: 65 Resp: 149395

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	102.0



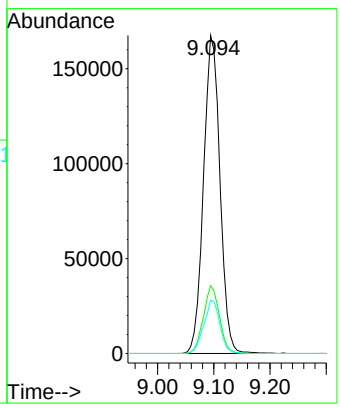


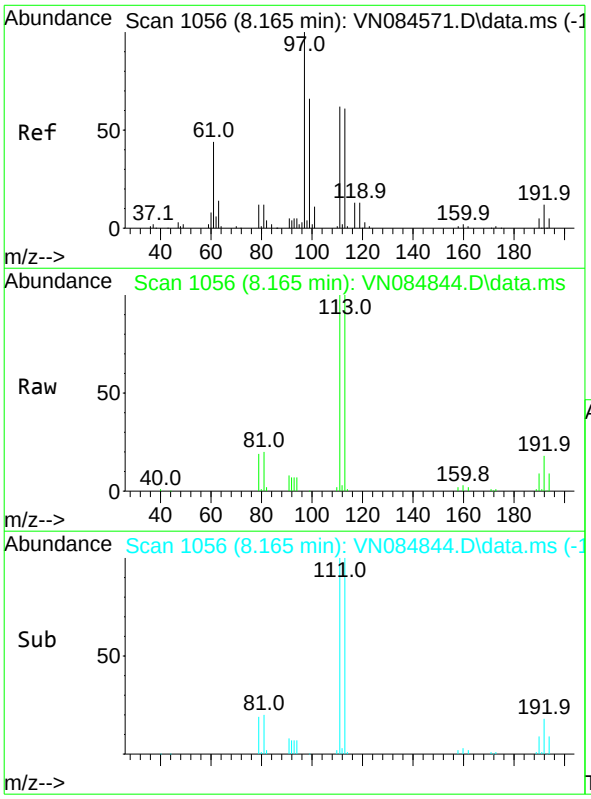
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 12
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion:114 Resp: 340637

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.8
88	16.8	0.0	31.6

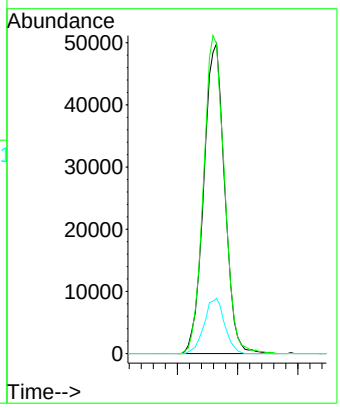


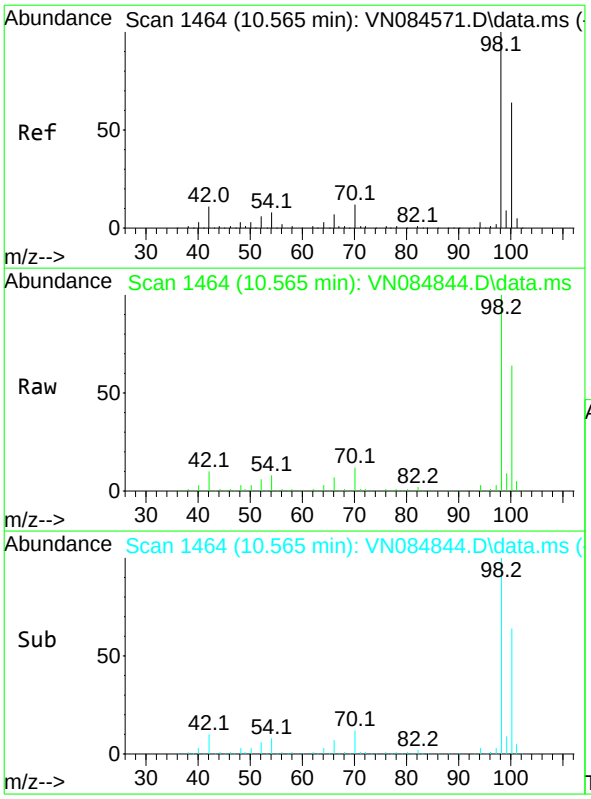


#35
Dibromofluoromethane
Concen: 52.015 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion:113 Resp: 119930

Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.3	124.9
192	17.4	13.5	20.3



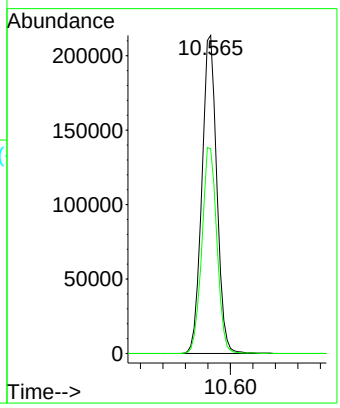


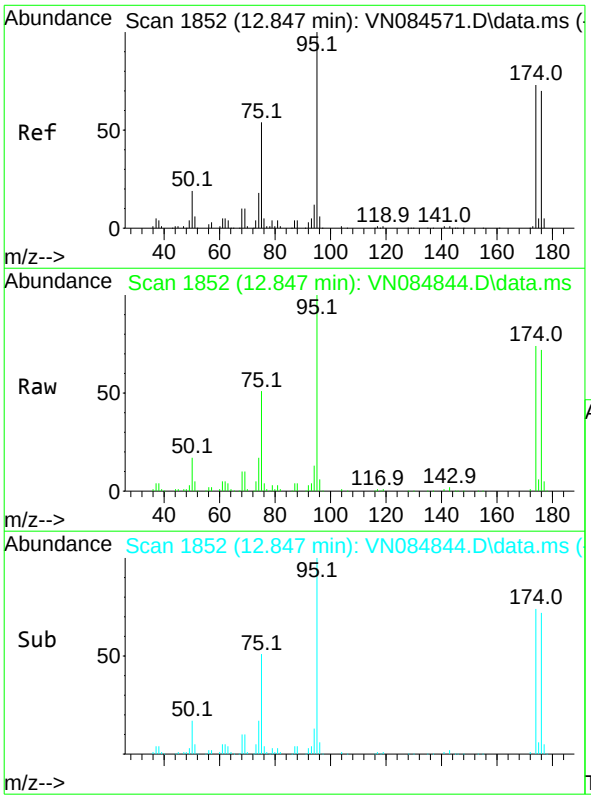
#50
Toluene-d8
Concen: 46.276 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion: 98 Resp: 393047

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.7	79.1

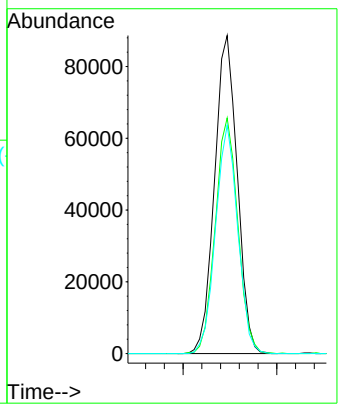


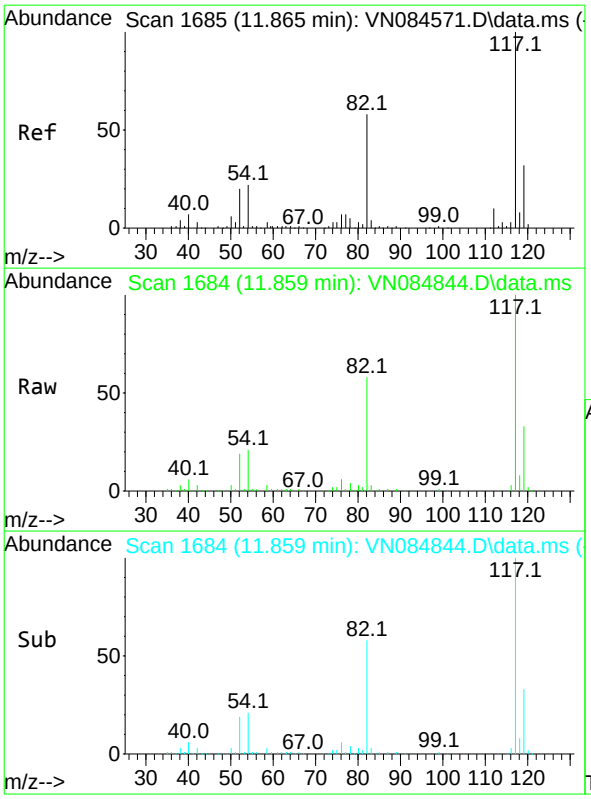


#62
4-Bromofluorobenzene
Concen: 46.995 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion: 95 Resp: 149177

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	145.2
176	69.9	0.0	140.0



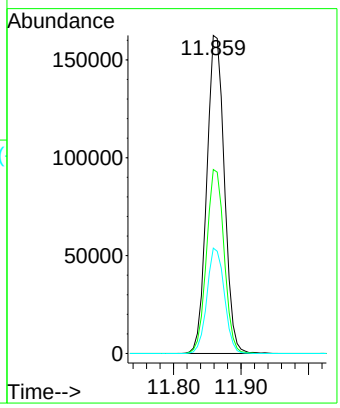


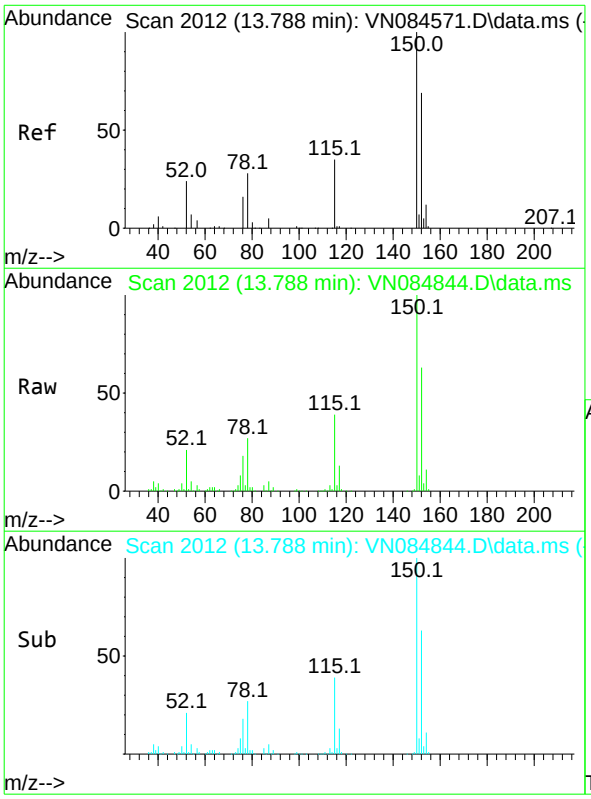
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 16
Delta R.T. -0.006 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Tgt Ion:117 Resp: 293869

Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.2	70.8
119	33.1	25.4	38.0

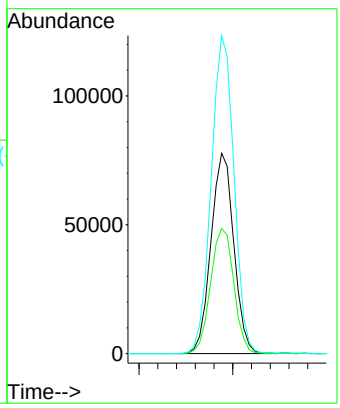




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084844.D
Acq: 14 Nov 2024 10:52

Tgt Ion:152 Resp: 131669

Ion	Ratio	Lower	Upper
152	100		
115	63.3	31.3	93.9
150	158.2	0.0	349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

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\82N103024W.M
Title : SW846 8260

Signal : TIC: VN084844.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.283	50	56	65	rBV4	13420	31901	3.07%	0.551%
2	2.883	148	158	159	rVV6	16078	46897	4.51%	0.810%
3	2.901	159	161	171	rVB5	19151	27782	2.67%	0.480%
4	8.159	1043	1055	1060	rBV	163366	401196	38.62%	6.932%
5	8.218	1060	1065	1079	rVB	285428	631136	60.76%	10.905%
6	8.577	1116	1126	1136	rBV	174528	408306	39.31%	7.055%
7	9.094	1205	1214	1226	rBV	395603	794999	76.54%	13.737%
8	10.559	1454	1463	1479	rBV	559188	1038725	100.00%	17.948%
9	11.859	1675	1684	1693	rBV	495948	903403	86.97%	15.610%
10	12.847	1844	1852	1861	rVB	415169	693861	66.80%	11.989%
11	13.788	2005	2012	2021	rVB	481350	809211	77.90%	13.982%

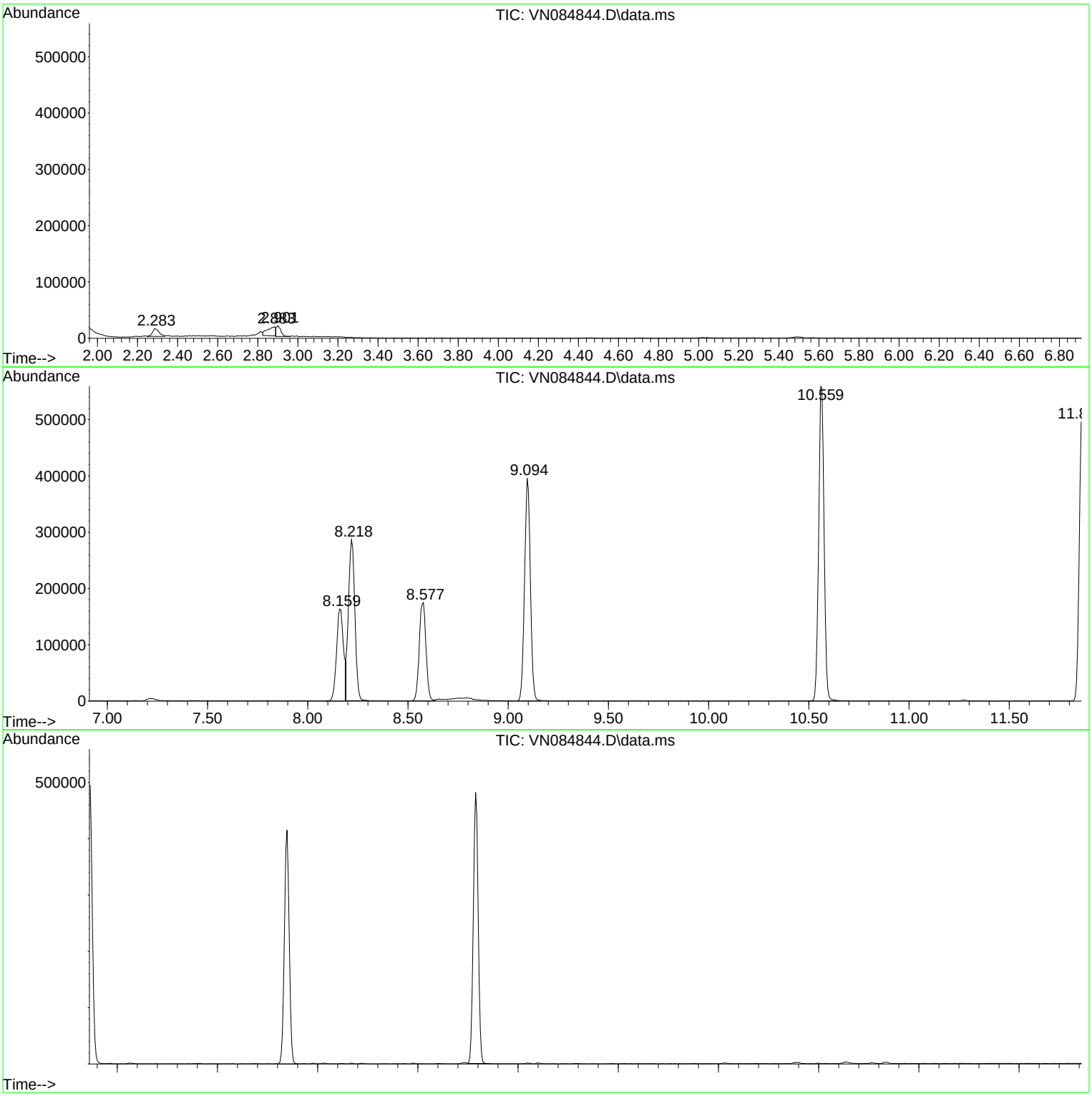
Sum of corrected areas: 5787417

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VN111424\
Data File : VN084844.D
Acq On : 14 Nov 2024 10:52
Operator : JC\MD
Sample : VN1114WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.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\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Time: Nov 08 22:14:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

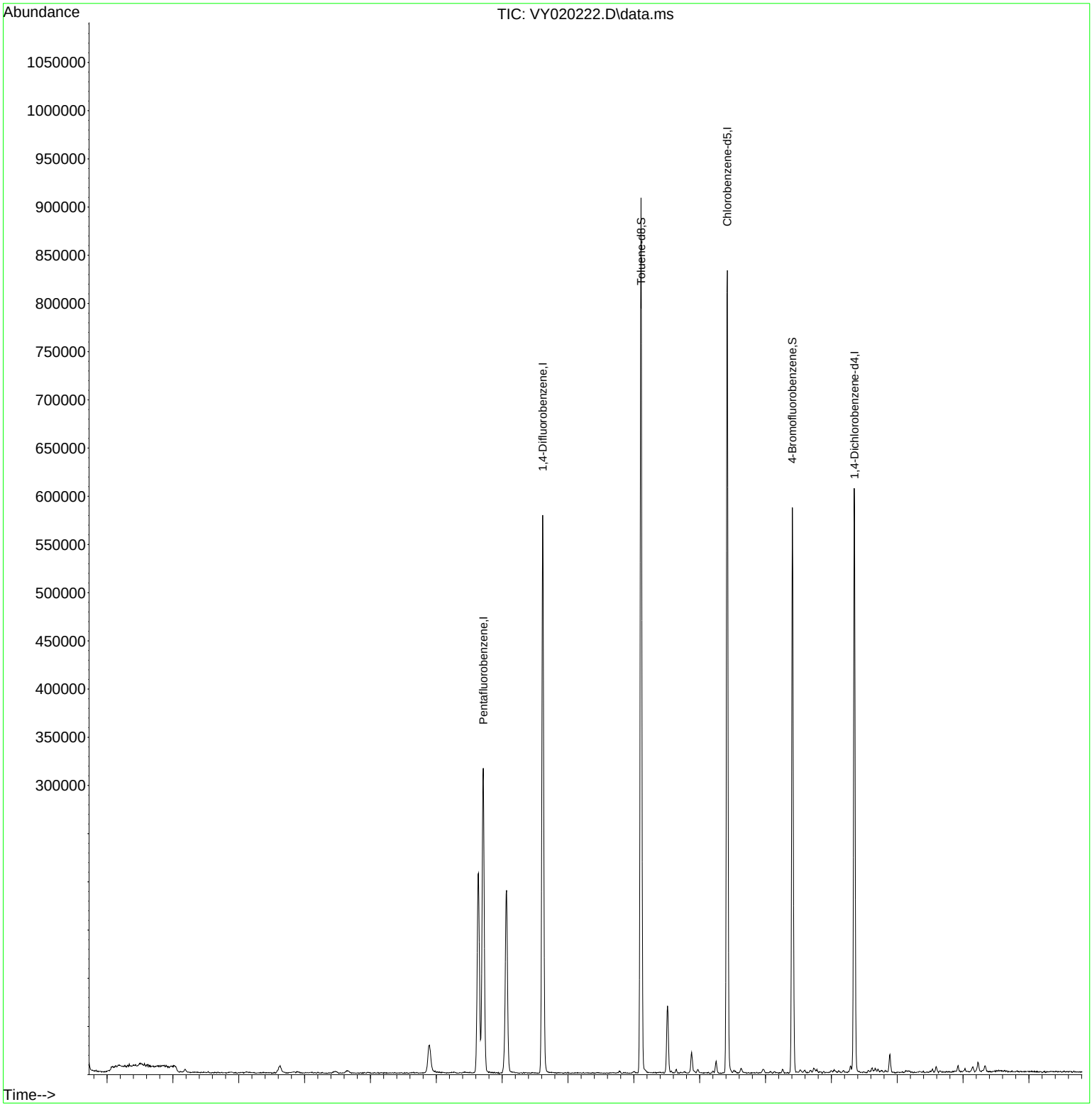
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	212436	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	452508	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	403401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	137264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	147279	55.549	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.100%			
35) Dibromofluoromethane	7.640	113	145570	50.597	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.200%			
50) Toluene-d8	10.109	98	552944	48.284	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.560%			
62) 4-Bromofluorobenzene	12.408	95	166242	44.692	ug/l	0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 89.380%			
Target Compounds						Qvalue

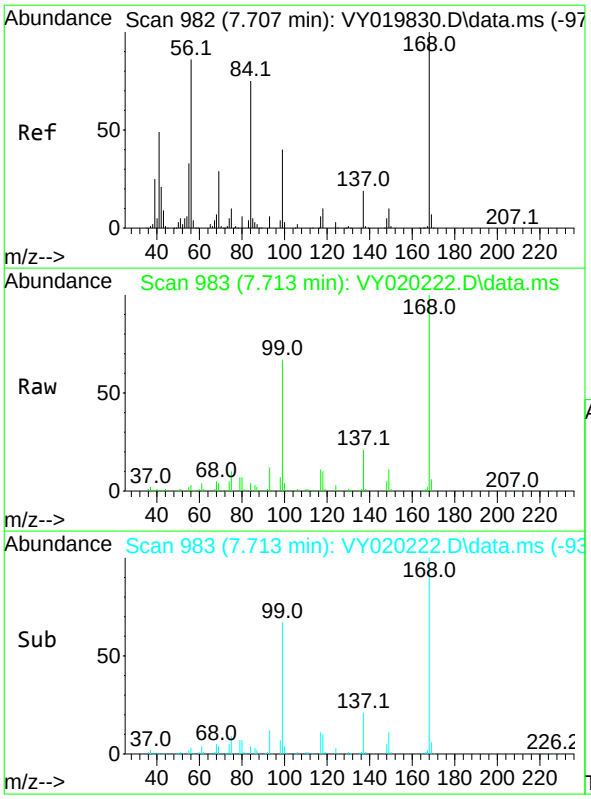
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Time: Nov 08 22:14:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration



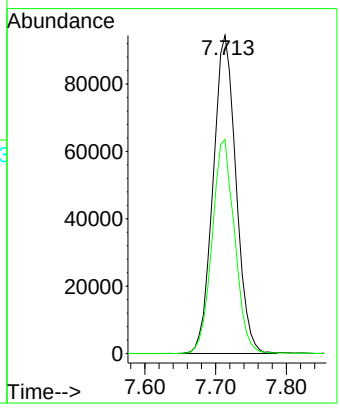


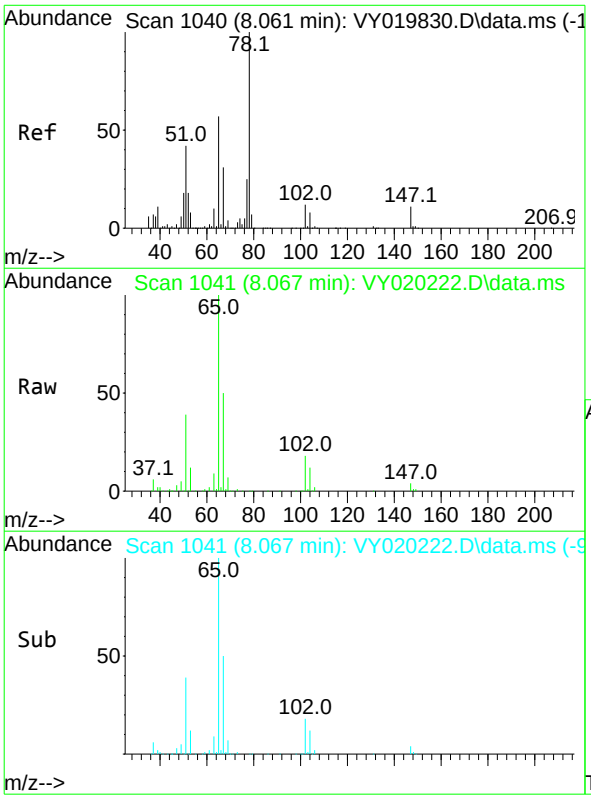
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Tgt Ion:168 Resp: 212436

Ion	Ratio	Lower	Upper
168	100		
99	67.3	39.1	58.7#

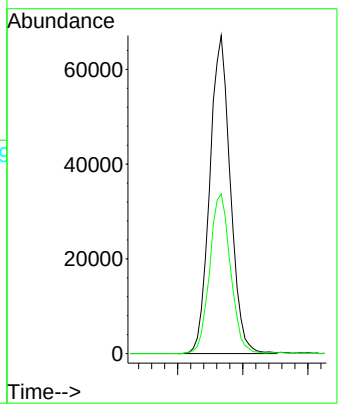


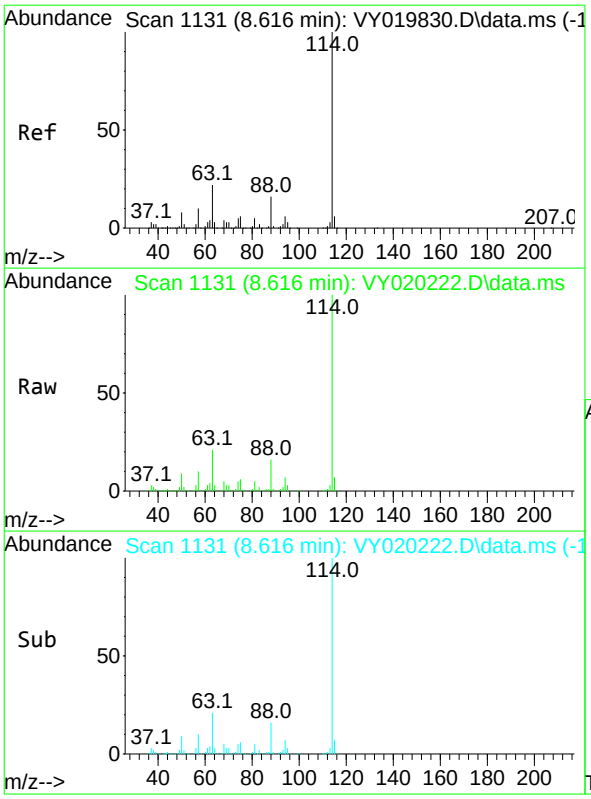


#33
1,2-Dichloroethane-d4
Concen: 55.549 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion: 65 Resp: 147279

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	109.6



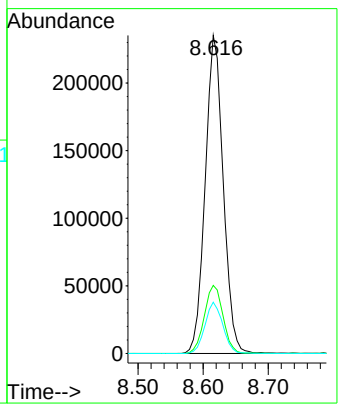


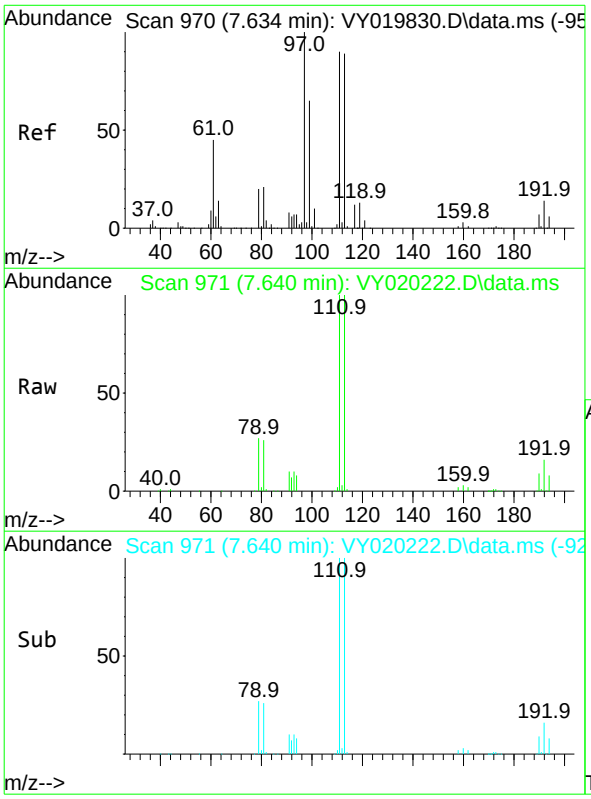
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Tgt Ion:114 Resp: 452508

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	35.0
88	16.1	0.0	27.2

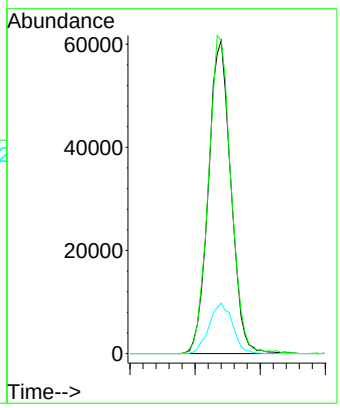


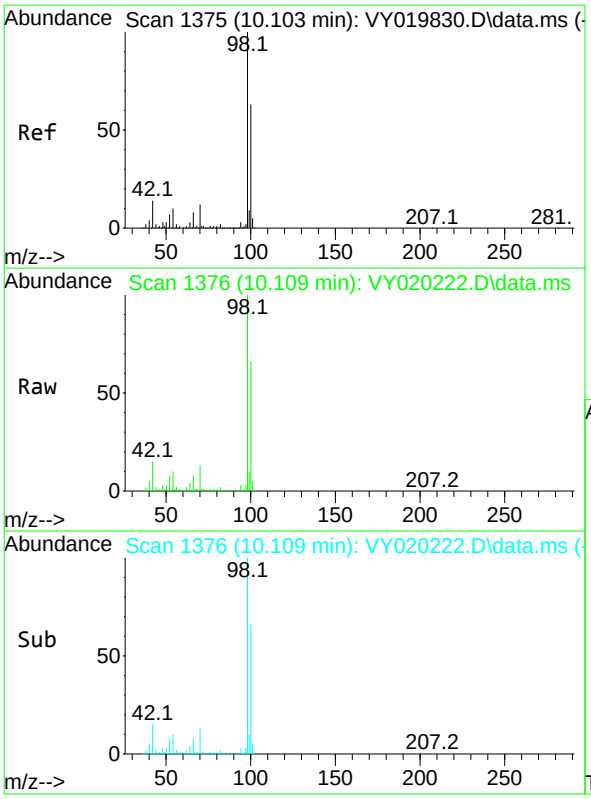


#35
Dibromofluoromethane
Concen: 50.597 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion:113 Resp: 145570

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	16.8	15.9	23.9



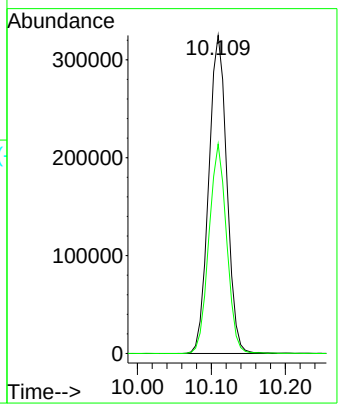


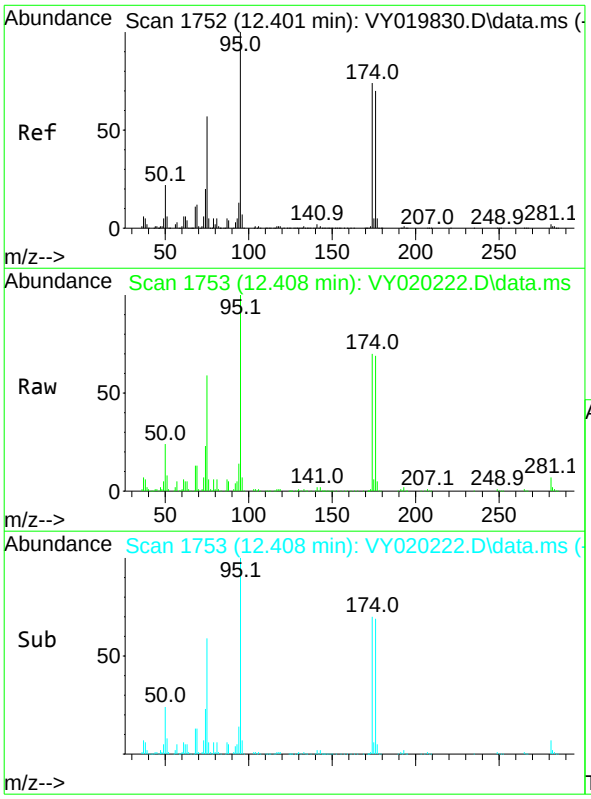
#50
Toluene-d8
Concen: 48.284 ug/l
RT: 10.109 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Tgt Ion: 98 Resp: 552944

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0

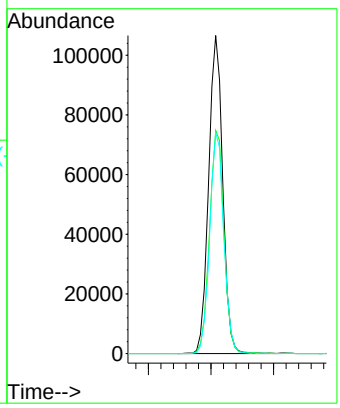


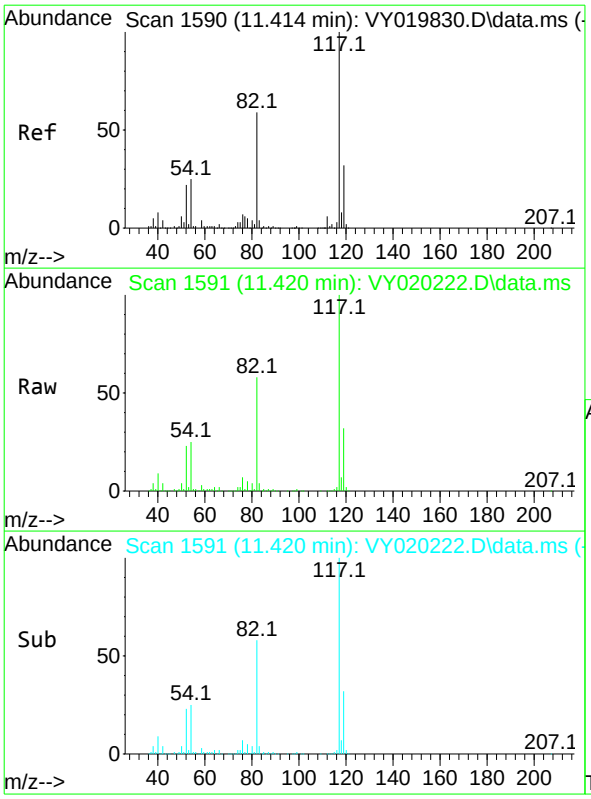


#62
4-Bromofluorobenzene
Concen: 44.692 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion: 95 Resp: 166242

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	175.6
176	69.4	0.0	171.4



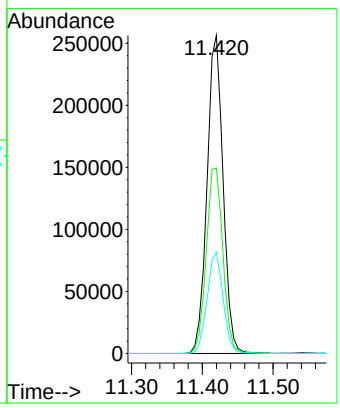


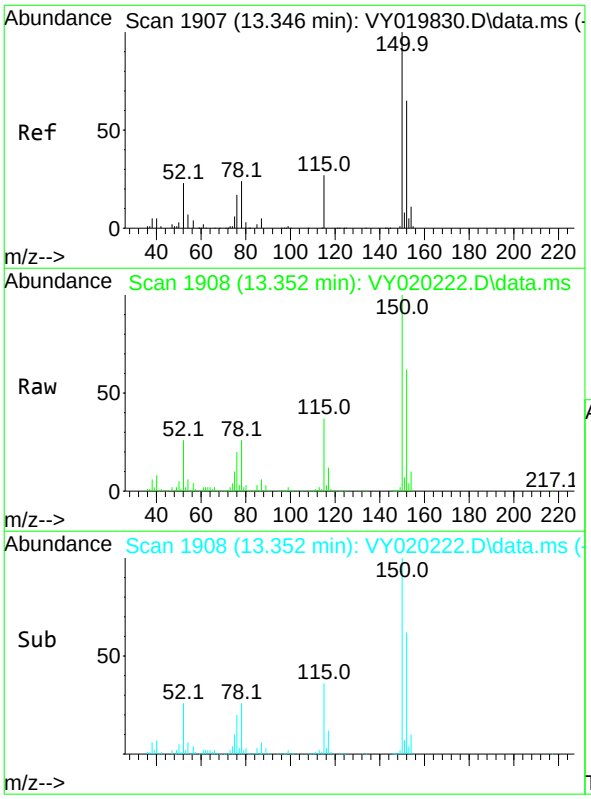
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Tgt Ion:117 Resp: 403401

Ion	Ratio	Lower	Upper
117	100		
82	58.3	42.4	63.6
119	31.9	25.9	38.9

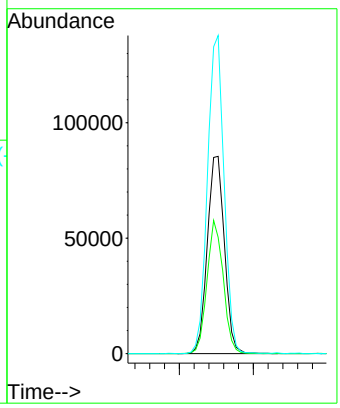




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020222.D
Acq: 08 Nov 2024 10:40

Tgt Ion:152 Resp: 137264

Ion	Ratio	Lower	Upper
152	100		
115	63.9	28.2	84.7
150	156.3	0.0	345.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

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\82Y103024S.M
Title : SW846 8260

Signal : TIC: VY020222.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.896	837	849	860	rBV2	28588	93740	6.08%	1.177%
2	7.640	960	971	976	rBV	207082	495163	32.12%	6.217%
3	7.713	976	983	996	rVB	315711	720195	46.72%	9.042%
4	8.067	1030	1041	1051	rBV	189419	457555	29.68%	5.745%
5	8.616	1122	1131	1144	rBV	578903	1130959	73.37%	14.199%
6	10.109	1368	1376	1390	rBV	907929	1541400	100.00%	19.353%
7	10.512	1433	1442	1449	rBV	69894	134571	8.73%	1.690%
8	10.877	1494	1502	1513	rBV3	21355	41650	2.70%	0.523%
9	11.249	1558	1563	1570	rVB2	12577	21288	1.38%	0.267%
10	11.420	1583	1591	1603	rBV	832478	1352338	87.73%	16.979%
11	12.408	1744	1753	1762	rBV2	586796	970051	62.93%	12.179%
12	13.346	1900	1907	1919	rVB	605252	953962	61.89%	11.977%
13	13.889	1990	1996	2002	rVB2	18706	30902	2.00%	0.388%
14	15.224	2207	2215	2224	rBV3	10242	21012	1.36%	0.264%

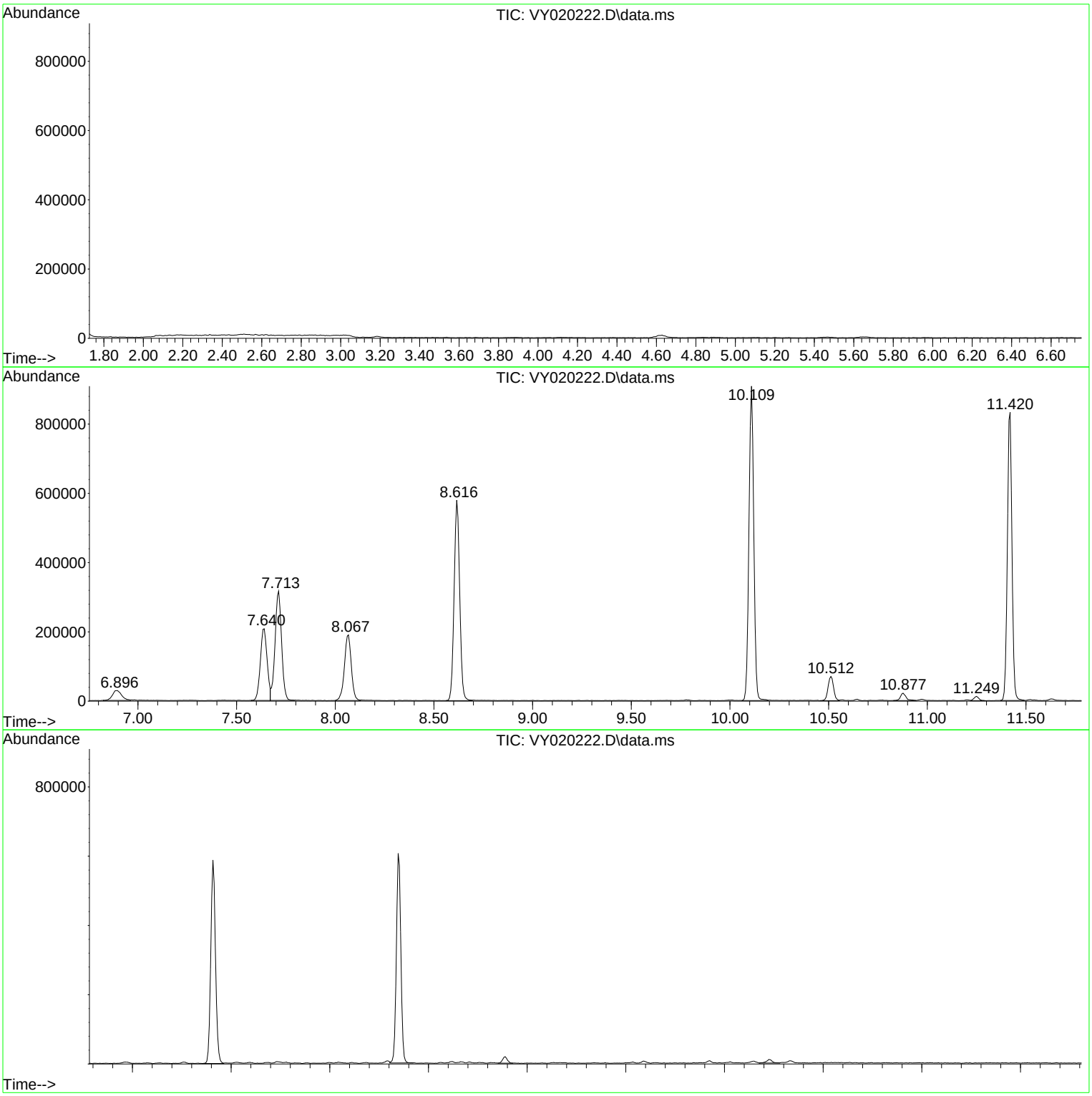
Sum of corrected areas: 7964786

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VY110824\
Data File : VY020222.D
Acq On : 08 Nov 2024 10:40
Operator : SY/MD
Sample : VY1108SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.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\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	169550	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	270058	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234639	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	118912	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114124	46.603	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.200%			
35) Dibromofluoromethane	8.159	113	92823	50.779	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.560%			
50) Toluene-d8	10.565	98	330275	49.049	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.100%			
62) 4-Bromofluorobenzene	12.847	95	124800	49.591	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37847	19.418	ug/l	88
3) Chloromethane	2.359	50	41236	16.333	ug/l	99
4) Vinyl Chloride	2.512	62	45362	21.638	ug/l	99
5) Bromomethane	2.901	94	22816	20.541	ug/l	93
6) Chloroethane	3.083	64	28977	21.536	ug/l #	88
7) Trichlorofluoromethane	3.477	101	68652	19.880	ug/l	98
8) Diethyl Ether	3.959	74	24825	20.379	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.353	101	40451	20.730	ug/l	98
10) Methyl Iodide	4.577	142	54005	20.708	ug/l	90
11) Tert butyl alcohol	5.542	59	31647	97.904	ug/l	95
12) 1,1-Dichloroethene	4.330	96	36223	18.760	ug/l	99
13) Acrolein	4.171	56	31282	97.050	ug/l	97
14) Allyl chloride	5.012	41	55310	17.664	ug/l	97
15) Acrylonitrile	5.718	53	88439	94.508	ug/l	100
16) Acetone	4.424	43	73518	102.243	ug/l	98
17) Carbon Disulfide	4.700	76	102779	17.285	ug/l	97
18) Methyl Acetate	5.012	43	46160	15.075	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	120830	20.417	ug/l	99
20) Methylene Chloride	5.271	84	41116	19.090	ug/l	85
21) trans-1,2-Dichloroethene	5.783	96	37615	18.972	ug/l	95
22) Diisopropyl ether	6.665	45	126019	20.254	ug/l	98
23) Vinyl Acetate	6.594	43	429740	100.156	ug/l	96
24) 1,1-Dichloroethane	6.559	63	75613	20.242	ug/l	97
25) 2-Butanone	7.477	43	112446	98.423	ug/l	99
26) 2,2-Dichloropropane	7.477	77	68163	20.965	ug/l	96
27) cis-1,2-Dichloroethene	7.477	96	46070	19.901	ug/l	97
28) Bromochloromethane	7.806	49	30543	20.523	ug/l	90
29) Tetrahydrofuran	7.836	42	71469	94.294	ug/l	93
30) Chloroform	7.959	83	76934	20.235	ug/l	98
31) Cyclohexane	8.253	56	64564	19.097	ug/l	91
32) 1,1,1-Trichloroethane	8.159	97	71181	20.569	ug/l	97
36) 1,1-Dichloropropene	8.365	75	52698	20.787	ug/l	99
37) Ethyl Acetate	7.559	43	47211	20.525	ug/l	100
38) Carbon Tetrachloride	8.359	117	62964	22.220	ug/l	93
39) Methylcyclohexane	9.600	83	58004	22.490	ug/l	98
40) Benzene	8.600	78	167429	20.565	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.771	41	28000	22.637 ug/l		96
42) 1,2-Dichloroethane	8.665	62	54596	20.706 ug/l		97
43) Isopropyl Acetate	8.683	43	84927	19.395 ug/l		98
44) Trichloroethene	9.347	130	39866	21.232 ug/l		98
45) 1,2-Dichloropropane	9.612	63	40081	20.986 ug/l		98
46) Dibromomethane	9.706	93	27289	20.249 ug/l		93
47) Bromodichloromethane	9.882	83	58232	20.499 ug/l	#	93
48) Methyl methacrylate	9.682	41	36343	20.302 ug/l		95
49) 1,4-Dioxane	9.694	88	13692	431.621 ug/l		95
51) 4-Methyl-2-Pentanone	10.441	43	229499	104.664 ug/l		96
52) Toluene	10.629	92	102629	21.553 ug/l		99
53) t-1,3-Dichloropropene	10.829	75	60180	20.466 ug/l		98
54) cis-1,3-Dichloropropene	10.306	75	65098	20.917 ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	38706	21.580 ug/l		97
56) Ethyl methacrylate	10.871	69	57910	22.321 ug/l		93
57) 1,3-Dichloropropane	11.159	76	66297	21.537 ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	128541	105.881 ug/l		94
59) 2-Hexanone	11.194	43	172000	107.766 ug/l		97
60) Dibromochloromethane	11.353	129	44196	21.620 ug/l		98
61) 1,2-Dibromoethane	11.465	107	38793	21.120 ug/l		97
64) Tetrachloroethene	11.100	164	34670	22.214 ug/l		97
65) Chlorobenzene	11.888	112	110830	21.113 ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	39460	21.612 ug/l		99
67) Ethyl Benzene	11.959	91	187829	21.436 ug/l		96
68) m/p-Xylenes	12.071	106	143326	43.206 ug/l		97
69) o-Xylene	12.394	106	69983	22.552 ug/l		99
70) Styrene	12.406	104	118961	21.975 ug/l		100
71) Bromoform	12.576	173	28661	20.861 ug/l	#	96
73) Isopropylbenzene	12.694	105	177802	21.337 ug/l		100
74) N-amyl acetate	12.494	43	68496	19.313 ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	53689	19.302 ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	50712m	21.335 ug/l		
77) Bromobenzene	12.976	156	45069	20.118 ug/l		93
78) n-propylbenzene	13.029	91	207174	21.216 ug/l		99
79) 2-Chlorotoluene	13.123	91	132760	20.807 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	155554	22.523 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	18639	18.603 ug/l		98
82) 4-Chlorotoluene	13.218	91	136736	20.363 ug/l		99
83) tert-Butylbenzene	13.435	119	128384	22.460 ug/l		97
84) 1,2,4-Trimethylbenzene	13.476	105	157459	22.089 ug/l		98
85) sec-Butylbenzene	13.612	105	176072	21.807 ug/l		100
86) p-Isopropyltoluene	13.723	119	150327	22.702 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	83871	19.184 ug/l		98
88) 1,4-Dichlorobenzene	13.806	146	84098	20.288 ug/l		100
89) n-Butylbenzene	14.053	91	126655	20.447 ug/l		98
90) Hexachloroethane	14.329	117	27627	18.708 ug/l		94
91) 1,2-Dichlorobenzene	14.106	146	81067	19.297 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.712	75	10170	18.048 ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	42976	18.690 ug/l		99
94) Hexachlorobutadiene	15.500	225	20149	19.954 ug/l		99
95) Naphthalene	15.635	128	124633	18.108 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	41610	18.641 ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

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

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

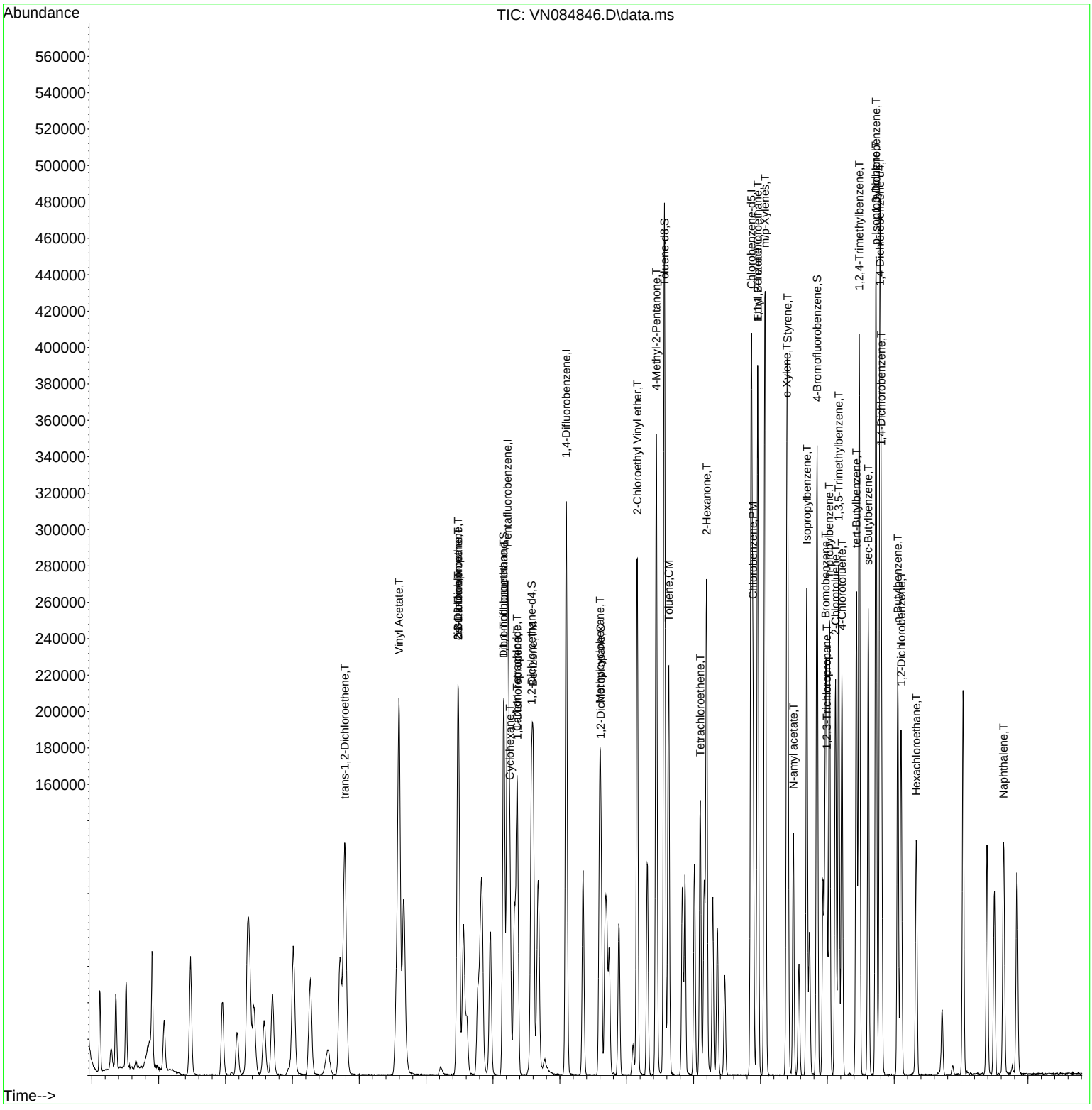
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084846.D
Acq On : 14 Nov 2024 12:50
Operator : JC\MD
Sample : VN1114WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 15 00:44:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	263593	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.615	114	480169	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	412478	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	187903	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	166958	50.750	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.500%				
35) Dibromofluoromethane	7.640	113	152271	49.878	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.760%				
50) Toluene-d8	10.109	98	597036	49.131	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.260%				
62) 4-Bromofluorobenzene	12.407	95	197404	50.012	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 100.020%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	41942	17.189	ug/l		99
3) Chloromethane	2.068	50	74994	18.555	ug/l		97
4) Vinyl Chloride	2.208	62	83860	19.328	ug/l		97
5) Bromomethane	2.592	94	58071	20.159	ug/l		97
6) Chloroethane	2.738	64	55691	19.888	ug/l		99
7) Trichlorofluoromethane	3.055	101	113368	21.388	ug/l		100
8) Diethyl Ether	3.452	74	32149	21.747	ug/l		82
9) 1,1,2-Trichlorotrifluo...	3.811	101	61221	20.593	ug/l		91
10) Methyl Iodide	4.007	142	55945	19.491	ug/l	#	89
11) Tert butyl alcohol	4.854	59	27360	115.620	ug/l	#	87
12) 1,1-Dichloroethene	3.793	96	57422	20.187	ug/l	#	81
13) Acrolein	3.659	56	24893	84.504	ug/l		98
14) Allyl chloride	4.385	41	100635	19.609	ug/l	#	88
15) Acrylonitrile	5.061	53	72500	107.736	ug/l		99
16) Acetone	3.872	43	78002	101.955	ug/l		87
17) Carbon Disulfide	4.104	76	161575	17.069	ug/l		99
18) Methyl Acetate	4.391	43	37350	20.807	ug/l		91
19) Methyl tert-butyl Ether	5.122	73	155652	21.751	ug/l		99
20) Methylene Chloride	4.616	84	63508	18.479	ug/l	#	77
21) trans-1,2-Dichloroethene	5.116	96	64368	20.065	ug/l		88
22) Diisopropyl ether	6.018	45	222674	20.909	ug/l	#	88
23) Vinyl Acetate	5.957	43	611393	102.010	ug/l	#	90
24) 1,1-Dichloroethane	5.915	63	126778	20.558	ug/l		95
25) 2-Butanone	6.896	43	108472	104.594	ug/l	#	87
26) 2,2-Dichloropropane	6.890	77	103895	20.249	ug/l		94
27) cis-1,2-Dichloroethene	6.890	96	75534	20.483	ug/l		83
28) Bromochloromethane	7.244	49	57361	19.865	ug/l	#	73
29) Tetrahydrofuran	7.262	42	62887	105.075	ug/l	#	83
30) Chloroform	7.421	83	128990	21.079	ug/l		100
31) Cyclohexane	7.701	56	110296	18.475	ug/l		89
32) 1,1,1-Trichloroethane	7.622	97	112619	21.079	ug/l		96
36) 1,1-Dichloropropene	7.835	75	89258	18.927	ug/l		95
37) Ethyl Acetate	6.988	43	46750	20.792	ug/l		97
38) Carbon Tetrachloride	7.817	117	95298	20.095	ug/l		98
39) Methylcyclohexane	9.109	83	111001	18.545	ug/l	#	90
40) Benzene	8.079	78	272265	19.779	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.213	41	21885m	19.430 ug/l		
42) 1,2-Dichloroethane	8.158	62	77775	20.412 ug/l		93
43) Isopropyl Acetate	8.201	43	87572	20.254 ug/l	#	91
44) Trichloroethene	8.865	130	62736	19.664 ug/l		93
45) 1,2-Dichloropropane	9.146	63	67580	20.520 ug/l		97
46) Dibromomethane	9.231	93	36747	20.592 ug/l	#	87
47) Bromodichloromethane	9.420	83	96743	20.694 ug/l		98
48) Methyl methacrylate	9.219	41	40024	19.985 ug/l	#	83
49) 1,4-Dioxane	9.231	88	8212	446.978 ug/l	#	83
51) 4-Methyl-2-Pentanone	9.999	43	229754	103.128 ug/l		89
52) Toluene	10.170	92	168972	19.914 ug/l		100
53) t-1,3-Dichloropropene	10.396	75	82563	20.000 ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	99987	20.292 ug/l	#	84
55) 1,1,2-Trichloroethane	10.572	97	45502	20.508 ug/l		88
56) Ethyl methacrylate	10.438	69	65582	20.606 ug/l	#	76
57) 1,3-Dichloropropane	10.719	76	84197	20.722 ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	160759	102.420 ug/l		93
59) 2-Hexanone	10.761	43	161836	101.324 ug/l		87
60) Dibromochloromethane	10.908	129	58416	20.654 ug/l		98
61) 1,2-Dibromoethane	11.011	107	42135	20.440 ug/l		99
64) Tetrachloroethene	10.646	164	55766	20.476 ug/l		92
65) Chlorobenzene	11.444	112	176523	20.085 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	58298	20.761 ug/l		98
67) Ethyl Benzene	11.517	91	325752	19.828 ug/l		97
68) m/p-Xylenes	11.627	106	244337	40.649 ug/l		92
69) o-Xylene	11.956	106	113780	19.993 ug/l		91
70) Styrene	11.969	104	194693	20.691 ug/l		96
71) Bromoform	12.133	173	30755	21.350 ug/l	#	97
73) Isopropylbenzene	12.255	105	309233	20.601 ug/l		98
74) N-amyl acetate	12.072	43	75918	20.233 ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.505	83	54990	20.947 ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	35235m	20.004 ug/l		
77) Bromobenzene	12.536	156	61738	20.337 ug/l		81
78) n-propylbenzene	12.596	91	384577	20.586 ug/l		96
79) 2-Chlorotoluene	12.682	91	213334	20.572 ug/l		95
80) 1,3,5-Trimethylbenzene	12.737	105	252266	20.933 ug/l		94
81) trans-1,4-Dichloro-2-b...	12.304	75	16355	19.972 ug/l	#	77
82) 4-Chlorotoluene	12.779	91	223419	21.131 ug/l		93
83) tert-Butylbenzene	12.999	119	222484	21.113 ug/l		94
84) 1,2,4-Trimethylbenzene	13.042	105	247789	20.759 ug/l		96
85) sec-Butylbenzene	13.176	105	332551	20.557 ug/l		98
86) p-Isopropyltoluene	13.291	119	269447	20.756 ug/l		96
87) 1,3-Dichlorobenzene	13.285	146	128275	20.800 ug/l		97
88) 1,4-Dichlorobenzene	13.365	146	126506	20.598 ug/l		96
89) n-Butylbenzene	13.621	91	266030	20.443 ug/l		97
90) Hexachloroethane	13.883	117	52805	20.568 ug/l		82
91) 1,2-Dichlorobenzene	13.663	146	109921	20.506 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	8552	21.481 ug/l		68
93) 1,2,4-Trichlorobenzene	14.925	180	56984	19.788 ug/l		97
94) Hexachlorobutadiene	15.023	225	30714	19.505 ug/l		99
95) Naphthalene	15.145	128	106502	19.785 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	46837	19.161 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024

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

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

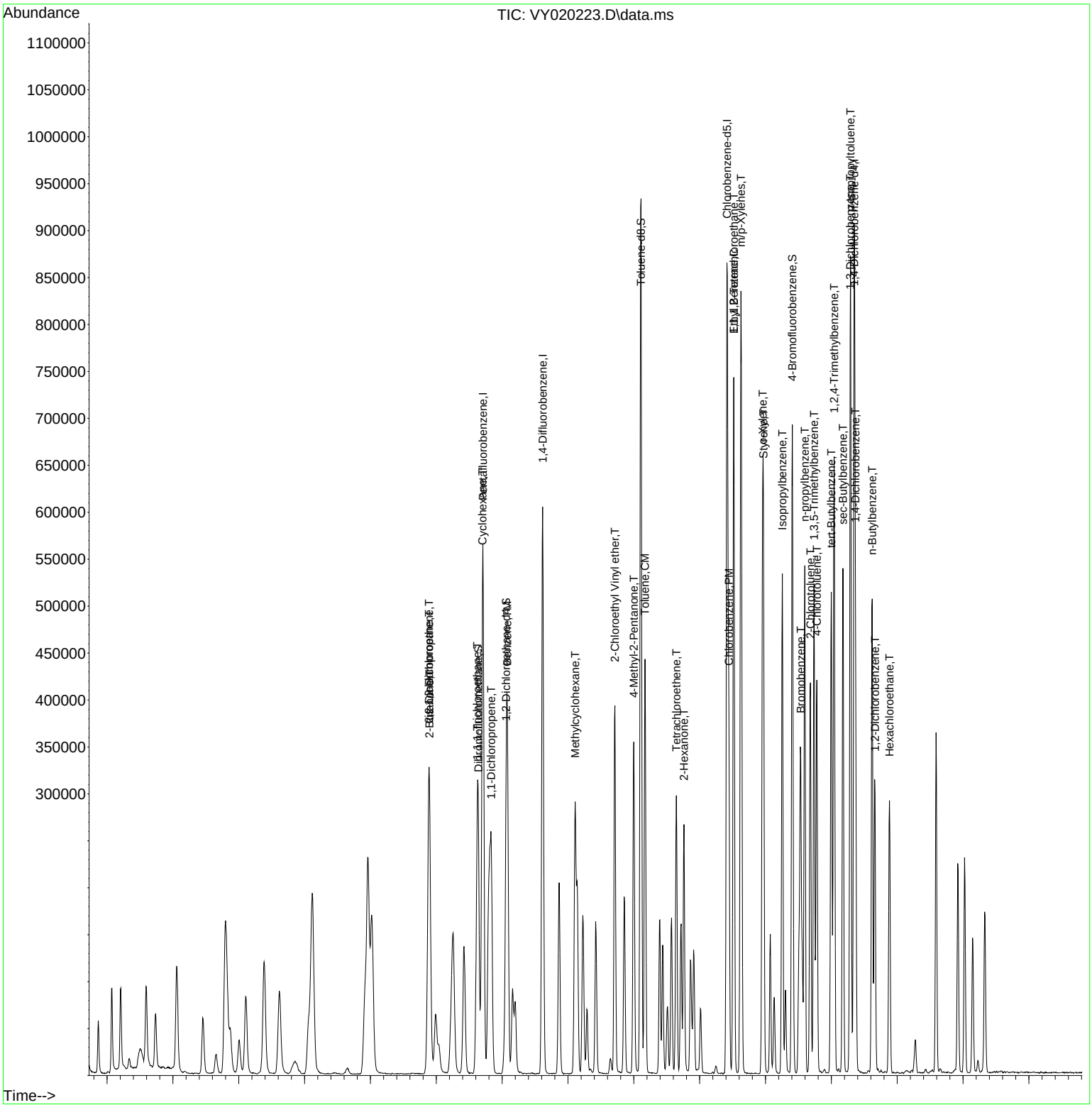
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020223.D
Acq On : 08 Nov 2024 11:19
Operator : SY/MD
Sample : VY1108SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 22:15:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBS01

Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/11/2024
Supervised By :Mahesh Dadoda 11/11/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	161141	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263729	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	229436	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112382	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	115342	49.558	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.120%			
35) Dibromofluoromethane	8.165	113	91480	51.246	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.500%			
50) Toluene-d8	10.565	98	331841	50.464	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.920%			
62) 4-Bromofluorobenzene	12.847	95	126298	51.391	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	34657	18.709	ug/l	99
3) Chloromethane	2.359	50	39882	16.668	ug/l	97
4) Vinyl Chloride	2.512	62	42327	21.244	ug/l	97
5) Bromomethane	2.901	94	22008	20.848	ug/l	95
6) Chloroethane	3.089	64	28234	22.115	ug/l	93
7) Trichlorofluoromethane	3.477	101	64120	19.537	ug/l	99
8) Diethyl Ether	3.948	74	24623	21.268	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.359	101	36910	19.902	ug/l	95
10) Methyl Iodide	4.571	142	52362	21.126	ug/l	97
11) Tert butyl alcohol	5.530	59	32545	105.936	ug/l #	88
12) 1,1-Dichloroethene	4.330	96	35801	19.509	ug/l	90
13) Acrolein	4.171	56	32198	105.104	ug/l	98
14) Allyl chloride	5.018	41	57145	19.202	ug/l	93
15) Acrylonitrile	5.712	53	92434	103.932	ug/l	97
16) Acetone	4.424	43	73293	107.391	ug/l	96
17) Carbon Disulfide	4.706	76	97238	17.207	ug/l	97
18) Methyl Acetate	5.018	43	47690	16.766	ug/l	97
19) Methyl tert-butyl Ether	5.789	73	122338	21.751	ug/l	98
20) Methylene Chloride	5.271	84	40866	19.964	ug/l	95
21) trans-1,2-Dichloroethene	5.777	96	35914	19.060	ug/l	97
22) Diisopropyl ether	6.671	45	121166	20.490	ug/l	95
23) Vinyl Acetate	6.595	43	433905	106.404	ug/l	97
24) 1,1-Dichloroethane	6.559	63	72333	20.374	ug/l	100
25) 2-Butanone	7.483	43	115624	106.486	ug/l	98
26) 2,2-Dichloropropane	7.483	77	65406	21.167	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	44912	20.413	ug/l	97
28) Bromochloromethane	7.806	49	31617	22.353	ug/l	93
29) Tetrahydrofuran	7.836	42	74437	103.335	ug/l	94
30) Chloroform	7.965	83	74650	20.659	ug/l	94
31) Cyclohexane	8.247	56	60211	18.738	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	68509	20.830	ug/l	94
36) 1,1-Dichloropropene	8.365	75	50330	20.329	ug/l	99
37) Ethyl Acetate	7.553	43	48091	21.410	ug/l	98
38) Carbon Tetrachloride	8.353	117	58992	21.318	ug/l	95
39) Methylcyclohexane	9.600	83	54807	21.761	ug/l	99
40) Benzene	8.600	78	161059	20.257	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	26930	22.294	ug/l		96
42) 1,2-Dichloroethane	8.665	62	54875	21.311	ug/l		100
43) Isopropyl Acetate	8.683	43	85877	20.118	ug/l		97
44) Trichloroethene	9.347	130	38223	20.845	ug/l		95
45) 1,2-Dichloropropane	9.618	63	39625	21.246	ug/l		97
46) Dibromomethane	9.706	93	27887	21.189	ug/l		94
47) Bromodichloromethane	9.883	83	58538	21.101	ug/l	#	99
48) Methyl methacrylate	9.677	41	37031	21.183	ug/l		95
49) 1,4-Dioxane	9.694	88	13600	439.009	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.441	43	237670	110.992	ug/l		97
52) Toluene	10.624	92	101527	21.834	ug/l		98
53) t-1,3-Dichloropropene	10.830	75	59212	20.620	ug/l		97
54) cis-1,3-Dichloropropene	10.306	75	64268	21.146	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	37149	21.209	ug/l		98
56) Ethyl methacrylate	10.871	69	58624	23.138	ug/l		94
57) 1,3-Dichloropropane	11.159	76	64292	21.387	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	130230	109.846	ug/l		96
59) 2-Hexanone	11.194	43	173018	111.006	ug/l		96
60) Dibromochloromethane	11.359	129	44362	22.222	ug/l		99
61) 1,2-Dibromoethane	11.465	107	38628	21.535	ug/l		98
64) Tetrachloroethene	11.100	164	33486	21.942	ug/l		96
65) Chlorobenzene	11.888	112	108271	21.094	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	38558	21.596	ug/l		98
67) Ethyl Benzene	11.959	91	183387	21.404	ug/l		97
68) m/p-Xylenes	12.071	106	141376	43.585	ug/l		100
69) o-Xylene	12.394	106	67347	22.194	ug/l		97
70) Styrene	12.412	104	115059	21.737	ug/l		99
71) Bromoform	12.576	173	28987	21.577	ug/l	#	99
73) Isopropylbenzene	12.694	105	171691	21.801	ug/l		100
74) N-amyl acetate	12.494	43	70330	20.982	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	54683	20.802	ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	49434m	22.005	ug/l		
77) Bromobenzene	12.976	156	43721	20.651	ug/l		94
78) n-propylbenzene	13.035	91	197805	21.434	ug/l		98
79) 2-Chlorotoluene	13.124	91	131560	21.817	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	147573	22.609	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	18920	19.981	ug/l		96
82) 4-Chlorotoluene	13.218	91	127715	20.125	ug/l		98
83) tert-Butylbenzene	13.435	119	122465	22.670	ug/l		97
84) 1,2,4-Trimethylbenzene	13.476	105	151544	22.495	ug/l		97
85) sec-Butylbenzene	13.612	105	168982	22.145	ug/l		100
86) p-Isopropyltoluene	13.729	119	141525	22.614	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	80206	19.412	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	81235	20.758	ug/l		99
89) n-Butylbenzene	14.053	91	118386	20.223	ug/l		99
90) Hexachloroethane	14.329	117	27754	19.886	ug/l		97
91) 1,2-Dichlorobenzene	14.106	146	76994	19.392	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.718	75	10107	18.979	ug/l		94
93) 1,2,4-Trichlorobenzene	15.388	180	40082	18.444	ug/l		97
94) Hexachlorobutadiene	15.494	225	19258	20.179	ug/l		96
95) Naphthalene	15.635	128	121654	18.702	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	38027	18.026	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024

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

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

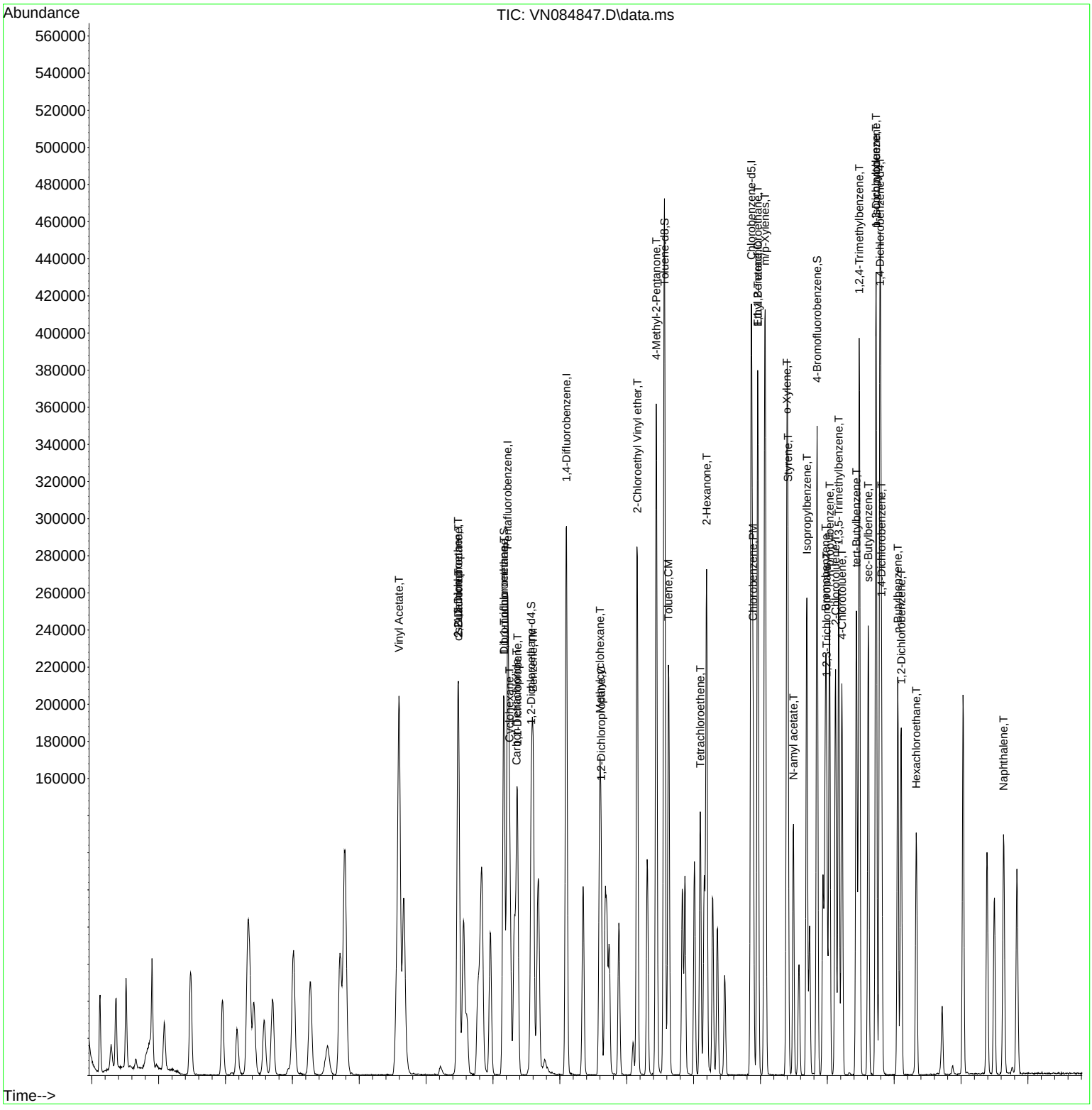
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111424\
Data File : VN084847.D
Acq On : 14 Nov 2024 13:24
Operator : JC\MD
Sample : VN1114WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 15 04:45:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBSD02

Manual Integrations APPROVED

Reviewed By :John Carlone 11/15/2024
Supervised By :Mahesh Dadoda 11/15/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 11/11/2024
Supervised By :Semsettin Yesilyurt 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	271139	50.000	ug/l	#	0.00
34) 1,4-Difluorobenzene	8.616	114	485080	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	417238	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	193395	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	195685	57.827	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.660%				
35) Dibromofluoromethane	7.634	113	170852	55.397	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.800%				
50) Toluene-d8	10.103	98	667038	54.336	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.680%				
62) 4-Bromofluorobenzene	12.402	95	221103	55.449	ug/l		0.00
Spiked Amount 50.000	Range 29 - 146		Recovery = 110.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	49920	19.889	ug/l		97
3) Chloromethane	2.068	50	82312	19.799	ug/l		96
4) Vinyl Chloride	2.202	62	91155	20.424	ug/l		98
5) Bromomethane	2.592	94	62724	21.168	ug/l		98
6) Chloroethane	2.733	64	61200	21.247	ug/l		97
7) Trichlorofluoromethane	3.056	101	123063	22.571	ug/l		96
8) Diethyl Ether	3.458	74	34394	22.618	ug/l		78
9) 1,1,2-Trichlorotrifluo...	3.818	101	65701	21.484	ug/l		91
10) Methyl Iodide	4.001	142	62944	21.319	ug/l	#	90
11) Tert butyl alcohol	4.860	59	29773	122.315	ug/l		100
12) 1,1-Dichloroethene	3.787	96	61754	21.106	ug/l	#	80
13) Acrolein	3.653	56	25340	83.628	ug/l		99
14) Allyl chloride	4.385	41	109811	20.802	ug/l	#	89
15) Acrylonitrile	5.055	53	82269	118.850	ug/l		97
16) Acetone	3.873	43	90104	114.496	ug/l	#	84
17) Carbon Disulfide	4.110	76	175241	17.997	ug/l		100
18) Methyl Acetate	4.391	43	45306	24.537	ug/l	#	88
19) Methyl tert-butyl Ether	5.116	73	173941	23.630	ug/l		99
20) Methylene Chloride	4.616	84	72163	20.413	ug/l	#	83
21) trans-1,2-Dichloroethene	5.116	96	67144	20.348	ug/l	#	81
22) Diisopropyl ether	6.019	45	242120	22.102	ug/l	#	90
23) Vinyl Acetate	5.964	43	680864	110.440	ug/l	#	91
24) 1,1-Dichloroethane	5.915	63	136567	21.530	ug/l		96
25) 2-Butanone	6.897	43	123748	116.003	ug/l		89
26) 2,2-Dichloropropane	6.890	77	111309	21.090	ug/l		95
27) cis-1,2-Dichloroethene	6.890	96	80096	21.115	ug/l		81
28) Bromochloromethane	7.244	49	52704	17.744	ug/l	#	76
29) Tetrahydrofuran	7.262	42	73648	119.630	ug/l	#	82
30) Chloroform	7.421	83	137707	21.877	ug/l		97
31) Cyclohexane	7.701	56	117110	19.070	ug/l		94
32) 1,1,1-Trichloroethane	7.616	97	118105	21.491	ug/l	#	93
36) 1,1-Dichloropropene	7.835	75	95406	20.025	ug/l		95
37) Ethyl Acetate	6.982	43	51726	22.772	ug/l		96
38) Carbon Tetrachloride	7.817	117	100682	21.015	ug/l		95
39) Methylcyclohexane	9.110	83	119168	19.708	ug/l		90
40) Benzene	8.079	78	289675	20.831	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
Supervised By :Semsettin Yesilyurt 11/11/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.226	41	24800	21.796 ug/l	92
42) 1,2-Dichloroethane	8.159	62	86471	22.465 ug/l	94
43) Isopropyl Acetate	8.201	43	99253	22.723 ug/l #	90
44) Trichloroethene	8.866	130	68099	21.129 ug/l	91
45) 1,2-Dichloropropane	9.140	63	72909	21.914 ug/l	97
46) Dibromomethane	9.231	93	39224	21.758 ug/l #	88
47) Bromodichloromethane	9.420	83	104768	22.184 ug/l	97
48) Methyl methacrylate	9.219	41	47828	23.640 ug/l #	82
49) 1,4-Dioxane	9.225	88	9508	512.279 ug/l #	95
51) 4-Methyl-2-Pentanone	10.000	43	271628	120.689 ug/l	89
52) Toluene	10.170	92	183058	21.355 ug/l	99
53) t-1,3-Dichloropropene	10.390	75	92142	22.094 ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	107858	21.668 ug/l #	86
55) 1,1,2-Trichloroethane	10.573	97	51284	22.880 ug/l	95
56) Ethyl methacrylate	10.439	69	73975	23.007 ug/l #	74
57) 1,3-Dichloropropane	10.719	76	93073	22.675 ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	182559	115.131 ug/l	92
59) 2-Hexanone	10.762	43	187054	115.928 ug/l	86
60) Dibromochloromethane	10.908	129	65059	22.770 ug/l	100
61) 1,2-Dibromoethane	11.012	107	46897	22.520 ug/l	99
64) Tetrachloroethene	10.646	164	58916	21.386 ug/l	91
65) Chlorobenzene	11.438	112	190748	21.456 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	64037	22.545 ug/l	98
67) Ethyl Benzene	11.518	91	352732	21.225 ug/l	97
68) m/p-Xylenes	11.627	106	258647	42.539 ug/l	91
69) o-Xylene	11.957	106	123837	21.512 ug/l	93
70) Styrene	11.969	104	207317	21.781 ug/l	95
71) Bromoform	12.133	173	34348	23.572 ug/l #	96
73) Isopropylbenzene	12.255	105	334466	21.649 ug/l	97
74) N-amyl acetate	12.072	43	88072	22.805 ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.505	83	61424	22.733 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	43978m	24.259 ug/l	
77) Bromobenzene	12.530	156	68337	21.871 ug/l	81
78) n-propylbenzene	12.597	91	410166	21.332 ug/l	96
79) 2-Chlorotoluene	12.676	91	228128	21.374 ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	267878	21.597 ug/l	96
81) trans-1,4-Dichloro-2-b...	12.304	75	18151	21.536 ug/l #	75
82) 4-Chlorotoluene	12.774	91	237233	21.800 ug/l	94
83) tert-Butylbenzene	12.999	119	238522	21.992 ug/l	94
84) 1,2,4-Trimethylbenzene	13.042	105	262514	21.368 ug/l	96
85) sec-Butylbenzene	13.176	105	357370	21.464 ug/l	97
86) p-Isopropyltoluene	13.292	119	286887	21.472 ug/l	96
87) 1,3-Dichlorobenzene	13.286	146	137025	21.588 ug/l	97
88) 1,4-Dichlorobenzene	13.365	146	133887	21.181 ug/l	95
89) n-Butylbenzene	13.615	91	281888	21.046 ug/l	97
90) Hexachloroethane	13.883	117	57610	21.802 ug/l	81
91) 1,2-Dichlorobenzene	13.658	146	121185	21.965 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	9590	23.404 ug/l	72
93) 1,2,4-Trichlorobenzene	14.919	180	62072	20.943 ug/l	97
94) Hexachlorobutadiene	15.023	225	33501	20.671 ug/l	97
95) Naphthalene	15.145	128	122076	22.034 ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	51280	20.382 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
Supervised By :Semsettin Yesilyurt 11/11/2024

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

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

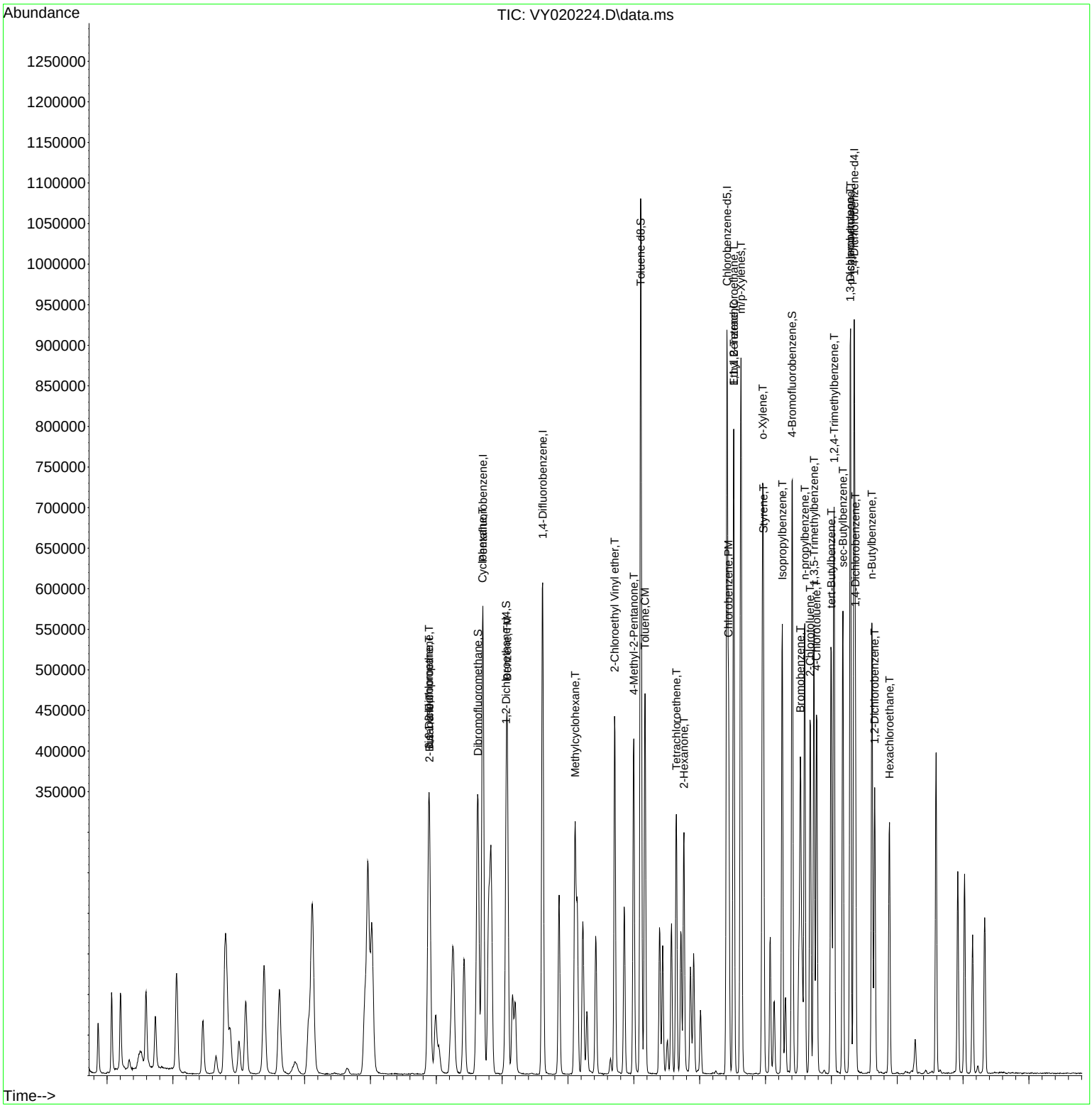
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110824\
Data File : VY020224.D
Acq On : 08 Nov 2024 11:41
Operator : SY/MD
Sample : VY1108SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 08 22:16:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1108SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/11/2024
Supervised By :Semsettin Yesilyurt 11/11/2024



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Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084570.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:14 AM	MMDadoda	11/4/2024 1:18:00 AM	Peak Integrated by Software
VSTDICCC050	VN084571.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:15 AM	MMDadoda	11/4/2024 1:18:01 AM	Peak Integrated by Software
VSTDICC020	VN084572.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:16 AM	MMDadoda	11/4/2024 1:18:03 AM	Peak Integrated by Software
VSTDICC010	VN084573.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:17 AM	MMDadoda	11/4/2024 1:18:04 AM	Peak Integrated by Software
VSTDICC005	VN084574.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:20 AM	MMDadoda	11/4/2024 1:18:05 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	1,4-Dichlorobenzene	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Acetone	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICC001	VN084575.D	Diethyl Ether	SAM	11/4/2024 1:12:21 AM	MMDadoda	11/4/2024 1:18:07 AM	Peak Integrated by Software
VSTDICV050	VN084577.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:23 AM	MMDadoda	11/4/2024 1:18:09 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	1,2,3-Trichloropropane	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software
VSTDCCC050	VN084579.D	trans-1,4-Dichloro-2-but ene	SAM	11/4/2024 1:12:34 AM	MMDadoda	11/4/2024 1:18:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn103024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	VN111424	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084842.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:11 AM	MMDadoda	11/15/2024 3:54:21 PM	Peak Integrated by Software
VSTDCCC050	VN084842.D	trans-1,4-Dichloro-2-but ene	JOHN	11/15/2024 9:36:11 AM	MMDadoda	11/15/2024 3:54:21 PM	Peak Integrated by Software
VN1114WBS02	VN084846.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:19 AM	MMDadoda	11/15/2024 3:54:24 PM	Peak Integrated by Software
VN1114WBSD0 2	VN084847.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:24 AM	MMDadoda	11/15/2024 3:54:26 PM	Peak Integrated by Software
VSTDCCC050	VN084865.D	1,2,3-Trichloropropane	JOHN	11/15/2024 9:36:40 AM	MMDadoda	11/15/2024 3:54:27 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY103024	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY020075.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC005	VY020075.D	Ethyl Acetate	Romaben	11/1/2024 11:41:29 AM	MMDadoda	11/1/2024 5:33:21 PM	Peak Integrated by Software
VSTDICC010	VY020076.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:41:32 AM	MMDadoda	11/1/2024 5:33:22 PM	Peak Integrated by Software
VSTDICC020	VY020077.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:16 AM	MMDadoda	11/1/2024 5:33:23 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICCC050	VY020078.D	Methacrylonitrile	Romaben	11/1/2024 11:42:03 AM	MMDadoda	11/1/2024 5:33:25 PM	Peak Integrated by Software
VSTDICC100	VY020079.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:20 AM	MMDadoda	11/1/2024 5:33:26 PM	Peak Integrated by Software
VSTDICC150	VY020080.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:07 AM	MMDadoda	11/1/2024 5:33:28 PM	Peak Integrated by Software
VSTDICV050	VY020082.D	1,2,3-Trichloropropane	Romaben	11/1/2024 11:42:10 AM	MMDadoda	11/1/2024 5:33:29 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vy110824	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY020221.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:56 PM	SAM	11/11/2024 1:01:03 PM	Peak Integrated by Software
VY1108SBS01	VY020223.D	1,2,3-Trichloropropane	Romaben	11/11/2024 10:26:52 AM	MMDadoda	11/11/2024 12:59:56 PM	Peak Integrated by Software
VY1108SBS01	VY020223.D	Methacrylonitrile	Romaben	11/11/2024 10:26:52 AM	MMDadoda	11/11/2024 12:59:56 PM	Peak Integrated by Software
VY1108SBSD01	VY020224.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:58 PM	SAM	11/11/2024 1:01:03 PM	Peak Integrated by Software
VSTDCCC050	VY020237.D	1,2,3-Trichloropropane	MMDadoda	11/11/2024 12:59:59 PM	SAM	11/11/2024 1:01:04 PM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM				
SubDirectory	VN103024	HP Acquire Method	MSVOA_N		HP Processing Method	82n103024w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084569.D	30 Oct 2024 10:42	JC\MD	Ok
2	VSTDICC100	VN084570.D	30 Oct 2024 11:46	JC\MD	Ok,M
3	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	JC\MD	Ok,M
4	VSTDICC020	VN084572.D	30 Oct 2024 12:33	JC\MD	Ok,M
5	VSTDICC010	VN084573.D	30 Oct 2024 12:57	JC\MD	Ok,M
6	VSTDICC005	VN084574.D	30 Oct 2024 13:21	JC\MD	Ok,M
7	VSTDICC001	VN084575.D	30 Oct 2024 13:45	JC\MD	Ok,M
8	VIBLK	VN084576.D	30 Oct 2024 14:42	JC\MD	Ok
9	VSTDICV050	VN084577.D	30 Oct 2024 15:06	JC\MD	Ok,M
10	BFB	VN084578.D	30 Oct 2024 19:24	JC\MD	Ok
11	VSTDCCC050	VN084579.D	30 Oct 2024 20:12	JC\MD	Ok,M
12	VN1030MBL01	VN084580.D	30 Oct 2024 20:48	JC\MD	Ok
13	VN1030WBL01	VN084581.D	30 Oct 2024 21:12	JC\MD	Ok
14	VN1030WBS01	VN084582.D	30 Oct 2024 21:46	JC\MD	Ok,M
15	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10	JC\MD	Ok,M
16	P4594-04	VN084584.D	30 Oct 2024 22:34	JC\MD	Ok,M
17	P4594-08	VN084585.D	30 Oct 2024 22:58	JC\MD	Ok
18	P4594-12	VN084586.D	30 Oct 2024 23:22	JC\MD	Ok
19	P4594-16	VN084587.D	30 Oct 2024 23:46	JC\MD	Ok
20	P4594-20	VN084588.D	31 Oct 2024 00:09	JC\MD	Ok
21	P4597-03	VN084589.D	31 Oct 2024 00:34	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4597-06	VN084590.D	31 Oct 2024 00:57	JC\MD	Ok,M
23	P4597-09	VN084591.D	31 Oct 2024 01:21	JC\MD	Ok
24	P4597-12	VN084592.D	31 Oct 2024 01:45	JC\MD	Ok,M
25	P4598-04	VN084593.D	31 Oct 2024 02:09	JC\MD	Ok
26	P4598-08	VN084594.D	31 Oct 2024 02:33	JC\MD	Ok
27	P4598-12	VN084595.D	31 Oct 2024 02:57	JC\MD	Ok
28	P4611-03	VN084596.D	31 Oct 2024 03:21	JC\MD	Ok
29	P4611-06	VN084597.D	31 Oct 2024 03:45	JC\MD	Ok
30	P4611-09	VN084598.D	31 Oct 2024 04:09	JC\MD	Ok
31	P4611-12	VN084599.D	31 Oct 2024 04:33	JC\MD	Ok
32	P4611-15	VN084600.D	31 Oct 2024 04:57	JC\MD	Ok
33	P4611-18	VN084601.D	31 Oct 2024 05:21	JC\MD	Ok
34	P4612-04	VN084602.D	31 Oct 2024 05:45	JC\MD	Ok
35	P4613-02	VN084603.D	31 Oct 2024 06:09	JC\MD	Ok
36	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	JC\MD	Ok,M
37	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	JC\MD	Ok,M
38	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	JC\MD	Ok,M
39	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	JC\MD	Ok
40	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	JC\MD	Ok,M
41	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	JC\MD	Ok,M
42	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	JC\MD	Ok,M
43	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	JC\MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084841.D	14 Nov 2024 08:53	JC\MD	Ok
2	VSTDCCC050	VN084842.D	14 Nov 2024 09:54	JC\MD	Ok,M
3	VN1114MBL01	VN084843.D	14 Nov 2024 10:28	JC\MD	Ok
4	VN1114WBL01	VN084844.D	14 Nov 2024 10:52	JC\MD	Ok
5	VN1114WBS01	VN084845.D	14 Nov 2024 11:53	JC\MD	Not Ok
6	VN1114WBS02	VN084846.D	14 Nov 2024 12:50	JC\MD	Ok,M
7	VN1114WBSD02	VN084847.D	14 Nov 2024 13:24	JC\MD	Ok,M
8	P4844-01	VN084848.D	14 Nov 2024 13:48	JC\MD	ReRun
9	IBLK	VN084849.D	14 Nov 2024 14:12	JC\MD	Ok
10	P4844-02	VN084850.D	14 Nov 2024 14:36	JC\MD	Ok
11	P4718-05	VN084851.D	14 Nov 2024 14:59	JC\MD	Ok
12	P4819-01	VN084852.D	14 Nov 2024 15:23	JC\MD	Ok
13	P4718-04	VN084853.D	14 Nov 2024 15:47	JC\MD	Ok
14	PB164945TB	VN084854.D	14 Nov 2024 16:11	JC\MD	Ok
15	PB164927TB	VN084855.D	14 Nov 2024 16:35	JC\MD	Ok
16	P4821-04	VN084856.D	14 Nov 2024 16:59	JC\MD	Ok
17	P4821-08	VN084857.D	14 Nov 2024 17:23	JC\MD	Ok
18	P4823-04	VN084858.D	14 Nov 2024 17:47	JC\MD	Ok
19	P4833-04	VN084859.D	14 Nov 2024 18:10	JC\MD	Ok
20	P4833-08	VN084860.D	14 Nov 2024 18:34	JC\MD	Ok
21	P4770-01	VN084861.D	14 Nov 2024 18:58	JC\MD	ReRun

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4770-02	VN084862.D	14 Nov 2024 19:22	JC\MD	ReRun
23	P4770-03	VN084863.D	14 Nov 2024 19:46	JC\MD	Ok
24	IBLK	VN084864.D	14 Nov 2024 20:10	JC\MD	Ok
25	VSTDCCC050	VN084865.D	14 Nov 2024 20:34	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY020074.D	30 Oct 2024 12:07	SY/MD	Ok
2	VSTDICC005	VY020075.D	30 Oct 2024 12:39	SY/MD	Ok,M
3	VSTDICC010	VY020076.D	30 Oct 2024 13:02	SY/MD	Ok,M
4	VSTDICC020	VY020077.D	30 Oct 2024 13:24	SY/MD	Ok,M
5	VSTDICCC050	VY020078.D	30 Oct 2024 14:06	SY/MD	Ok,M
6	VSTDICC100	VY020079.D	30 Oct 2024 14:29	SY/MD	Ok,M
7	VSTDICC150	VY020080.D	30 Oct 2024 14:52	SY/MD	Ok,M
8	VIBLK	VY020081.D	30 Oct 2024 15:15	SY/MD	Ok
9	VSTDICV050	VY020082.D	30 Oct 2024 15:47	SY/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110824

Review By	Mahesh Dadoda	Review On	11/9/2024 4:18:55 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM				
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131341
Initial Calibration Stds	
CCC	VP131342,VP131343
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	VY020220.D	08 Nov 2024 08:45	SY/MD	Ok
2	VSTDCCC050	VY020221.D	08 Nov 2024 09:33	SY/MD	Ok,M
3	VY1108SBL01	VY020222.D	08 Nov 2024 10:40	SY/MD	Ok
4	VY1108SBS01	VY020223.D	08 Nov 2024 11:19	SY/MD	Ok,M
5	VY1108SBSD01	VY020224.D	08 Nov 2024 11:41	SY/MD	Ok,M
6	P4734-01	VY020225.D	08 Nov 2024 12:05	SY/MD	Ok
7	P4720-02	VY020226.D	08 Nov 2024 12:28	SY/MD	ReRun
8	P4739-03RE	VY020227.D	08 Nov 2024 12:51	SY/MD	Not Ok
9	P4720-02RE	VY020228.D	08 Nov 2024 13:15	SY/MD	Confirms
10	P4739-15	VY020229.D	08 Nov 2024 13:38	SY/MD	Ok
11	P4722-01	VY020230.D	08 Nov 2024 14:02	SY/MD	Ok
12	P4771-07	VY020231.D	08 Nov 2024 14:25	SY/MD	Ok
13	P4771-05	VY020232.D	08 Nov 2024 14:48	SY/MD	Ok
14	P4718-01	VY020233.D	08 Nov 2024 15:12	SY/MD	Ok
15	P4718-02	VY020234.D	08 Nov 2024 15:35	SY/MD	Ok
16	P4756-03	VY020235.D	08 Nov 2024 15:59	SY/MD	Ok
17	P4737-01	VY020236.D	08 Nov 2024 17:49	SY/MD	Ok
18	VSTDCCC050	VY020237.D	08 Nov 2024 18:12	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084569.D	30 Oct 2024 10:42		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN084570.D	30 Oct 2024 11:46	Comp #03 fail for %D	JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN084571.D	30 Oct 2024 12:09	LR-03,06,16,18,43	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN084572.D	30 Oct 2024 12:33	QR-88	JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN084573.D	30 Oct 2024 12:57		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN084574.D	30 Oct 2024 13:21		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN084575.D	30 Oct 2024 13:45		JC\MD	Ok,M
8	VIBLK	VIBLK	VN084576.D	30 Oct 2024 14:42		JC\MD	Ok
9	VSTDICV050	ICVVN103024	VN084577.D	30 Oct 2024 15:06		JC\MD	Ok,M
10	BFB	BFB	VN084578.D	30 Oct 2024 19:24		JC\MD	Ok
11	VSTDCCC050	VSTDCCC050	VN084579.D	30 Oct 2024 20:12		JC\MD	Ok,M
12	VN1030MBL01	VN1030MBL01	VN084580.D	30 Oct 2024 20:48		JC\MD	Ok
13	VN1030WBL01	VN1030WBL01	VN084581.D	30 Oct 2024 21:12		JC\MD	Ok
14	VN1030WBS01	VN1030WBS01	VN084582.D	30 Oct 2024 21:46		JC\MD	Ok,M
15	VN1030WBSD01	VN1030WBSD01	VN084583.D	30 Oct 2024 22:10		JC\MD	Ok,M
16	P4594-04	TP-4	VN084584.D	30 Oct 2024 22:34	pH#5.0 A	JC\MD	Ok,M
17	P4594-08	BP-F17	VN084585.D	30 Oct 2024 22:58	pH#5.0 A	JC\MD	Ok
18	P4594-12	BP-F16	VN084586.D	30 Oct 2024 23:22	pH#5.0 A	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4594-16	TP-5	VN084587.D	30 Oct 2024 23:46	pH#7.0 A	JC\MD	Ok
20	P4594-20	BP-F15	VN084588.D	31 Oct 2024 00:09	pH#6.0 A	JC\MD	Ok
21	P4597-03	RED-1-1	VN084589.D	31 Oct 2024 00:34	pH#6.0 A	JC\MD	Ok
22	P4597-06	RED-1-2	VN084590.D	31 Oct 2024 00:57	pH#5.0 A	JC\MD	Ok,M
23	P4597-09	BLUE-2-1	VN084591.D	31 Oct 2024 01:21	pH#5.0 A	JC\MD	Ok
24	P4597-12	BLUE-2-2	VN084592.D	31 Oct 2024 01:45	pH#5.0 A	JC\MD	Ok,M
25	P4598-04	BP-F12	VN084593.D	31 Oct 2024 02:09	pH#7.0 A	JC\MD	Ok
26	P4598-08	BP-F11	VN084594.D	31 Oct 2024 02:33	pH#7.0 A	JC\MD	Ok
27	P4598-12	TP-8	VN084595.D	31 Oct 2024 02:57	pH#6.0 A	JC\MD	Ok
28	P4611-03	TP-1	VN084596.D	31 Oct 2024 03:21	pH#5.0 A	JC\MD	Ok
29	P4611-06	TP-2	VN084597.D	31 Oct 2024 03:45	pH#5.0 A	JC\MD	Ok
30	P4611-09	TP-3	VN084598.D	31 Oct 2024 04:09	pH#5.0 A	JC\MD	Ok
31	P4611-12	TP-4	VN084599.D	31 Oct 2024 04:33	pH#5.0 A	JC\MD	Ok
32	P4611-15	TP-5	VN084600.D	31 Oct 2024 04:57	pH#5.0 A	JC\MD	Ok
33	P4611-18	TP-6	VN084601.D	31 Oct 2024 05:21	pH#5.0 A	JC\MD	Ok
34	P4612-04	MOO-24-00335	VN084602.D	31 Oct 2024 05:45	pH#5.0 A	JC\MD	Ok
35	P4613-02	ARS20-0001	VN084603.D	31 Oct 2024 06:09	pH#5.0 A	JC\MD	Ok
36	PB164501ZHE#13	PB164501ZHE#13	VN084604.D	31 Oct 2024 06:33	pH#5.0 A	JC\MD	Ok,M
37	PB164501ZHE#14	PB164501ZHE#14	VN084605.D	31 Oct 2024 06:57	pH#5.0 A	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103024

Review By	Semsettin Yesilyurt	Review On	11/1/2024 2:56:11 PM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2024 1:18:30 AM		
SubDirectory	VN103024	HP Acquire Method	MSVOA_N	HP Processing Method	82n103024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131194.VP131195
Initial Calibration Stds	VP131185,VP131186,VP131187,VP131188,VP131189,VP131190
CCC	VP131191,VP131192
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131193
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	PB164501ZHE#15	PB164501ZHE#15	VN084606.D	31 Oct 2024 07:22	pH#5.0 A	JC\MD	Ok,M
39	PB164501ZHE#16	PB164501ZHE#16	VN084607.D	31 Oct 2024 07:46	pH#5.0 A	JC\MD	Ok
40	PB164501ZHE#17	PB164501ZHE#17	VN084608.D	31 Oct 2024 08:10	pH#5.0 A	JC\MD	Ok,M
41	PB164501ZHE#18	PB164501ZHE#18	VN084609.D	31 Oct 2024 08:34	pH#5.0 A	JC\MD	Ok,M
42	PB164501ZHE#19	PB164501ZHE#19	VN084610.D	31 Oct 2024 08:58	pH#5.0 A	JC\MD	Ok,M
43	PB164501ZHE#20	PB164501ZHE#20	VN084611.D	31 Oct 2024 09:22	pH#5.0 A	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
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	VN084841.D	14 Nov 2024 08:53		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084842.D	14 Nov 2024 09:54	V13516	JC\MD	Ok,M
3	VN1114MBL01	VN1114MBL01	VN084843.D	14 Nov 2024 10:28		JC\MD	Ok
4	VN1114WBL01	VN1114WBL01	VN084844.D	14 Nov 2024 10:52		JC\MD	Ok
5	VN1114WBS01	VN1114WBS01	VN084845.D	14 Nov 2024 11:53	Recovery fail	JC\MD	Not Ok
6	VN1114WBS02	VN1114WBS02	VN084846.D	14 Nov 2024 12:50	BS high for com#69	JC\MD	Ok,M
7	VN1114WBSD02	VN1114WBSD02	VN084847.D	14 Nov 2024 13:24	BSD high for com#69	JC\MD	Ok,M
8	P4844-01	241113075-01-VOA	VN084848.D	14 Nov 2024 13:48	vial A pH#6.0 BS/BSD high	JC\MD	ReRun
9	IBLK	IBLK	VN084849.D	14 Nov 2024 14:12		JC\MD	Ok
10	P4844-02	241113050-06-TRIP-BL	VN084850.D	14 Nov 2024 14:36	vial A pH#6.0	JC\MD	Ok
11	P4718-05	TB-11042024	VN084851.D	14 Nov 2024 14:59	vial A pH<2 TB	JC\MD	Ok
12	P4819-01	1594	VN084852.D	14 Nov 2024 15:23	vial A pH#5.0	JC\MD	Ok
13	P4718-04	WB-307-SW	VN084853.D	14 Nov 2024 15:47	vial A pH<2	JC\MD	Ok
14	PB164945TB	PB164945TB	VN084854.D	14 Nov 2024 16:11		JC\MD	Ok
15	PB164927TB	PB164927TB	VN084855.D	14 Nov 2024 16:35		JC\MD	Ok
16	P4821-04	BP-F-24	VN084856.D	14 Nov 2024 16:59	vial A pH#5.0	JC\MD	Ok
17	P4821-08	BP-F-2	VN084857.D	14 Nov 2024 17:23	vial A pH#5.0	JC\MD	Ok
18	P4823-04	MH-4	VN084858.D	14 Nov 2024 17:47	vial A pH#5.0	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN111424

Review By	John Carlone	Review On	11/15/2024 10:01:35 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/15/2024 3:54:33 PM		
SubDirectory	VN111424	HP Acquire Method		HP Processing Method	82N103024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131460
Initial Calibration Stds	
CCC	VP131461,VP131462
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4833-04	MH-731	VN084859.D	14 Nov 2024 18:10	vial A pH#5.0	JC\MD	Ok
20	P4833-08	TP-2	VN084860.D	14 Nov 2024 18:34	vial A pH#5.0	JC\MD	Ok
21	P4770-01	MW-1	VN084861.D	14 Nov 2024 18:58	vial A pH<2 BS/BSD high	JC\MD	ReRun
22	P4770-02	MW-3	VN084862.D	14 Nov 2024 19:22	vial A pH<2 BS/BSD high	JC\MD	ReRun
23	P4770-03	MW-10	VN084863.D	14 Nov 2024 19:46	vial A pH<2	JC\MD	Ok
24	IBLK	IBLK	VN084864.D	14 Nov 2024 20:10		JC\MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VN084865.D	14 Nov 2024 20:34		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY103024

Review By	Mahesh Dadoda	Review On	11/1/2024 5:33:31 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/1/2024 5:33:47 PM		
SubDirectory	VY103024	HP Acquire Method		HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131199
Initial Calibration Stds	VP131200,VP131201,VP131203,VP131204,VP131205,VP131206
CCC	
Internal Standard/PEM	VP128297
ICV/I.BLK	VP131207
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY020074.D	30 Oct 2024 12:07		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY020075.D	30 Oct 2024 12:39	Method pass	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY020076.D	30 Oct 2024 13:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY020077.D	30 Oct 2024 13:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY020078.D	30 Oct 2024 14:06		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY020079.D	30 Oct 2024 14:29		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY020080.D	30 Oct 2024 14:52		SY/MD	Ok,M
8	VIBLK	VIBLK	VY020081.D	30 Oct 2024 15:15		SY/MD	Ok
9	VSTDICV050	ICVVY103024	VY020082.D	30 Oct 2024 15:47	fail icv	SY/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110824

Review By	Mahesh Dadoda	Review On	11/9/2024 4:18:55 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM		
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131341
Initial Calibration Stds	
CCC	VP131342,VP131343
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	VY020220.D	08 Nov 2024 08:45		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY020221.D	08 Nov 2024 09:33	CCC high for com#16	SY/MD	Ok,M
3	VY1108SBL01	VY1108SBL01	VY020222.D	08 Nov 2024 10:40		SY/MD	Ok
4	VY1108SBS01	VY1108SBS01	VY020223.D	08 Nov 2024 11:19		SY/MD	Ok,M
5	VY1108SBSD01	VY1108SBSD01	VY020224.D	08 Nov 2024 11:41		SY/MD	Ok,M
6	P4734-01	EO-03-11062024	VY020225.D	08 Nov 2024 12:05	vial-B	SY/MD	Ok
7	P4720-02	JC-701-VOC-01	VY020226.D	08 Nov 2024 12:28	ISTD Fail vial-A	SY/MD	ReRun
8	P4739-03RE	TP-14-VOCRE	VY020227.D	08 Nov 2024 12:51	CCC high;Surrogate fail;Not match for comp. #39 vila-B	SY/MD	Not Ok
9	P4720-02RE	JC-701-VOC-01RE	VY020228.D	08 Nov 2024 13:15	ISTD Fail vial-B	SY/MD	Confirms
10	P4739-15	TP-11-VOC	VY020229.D	08 Nov 2024 13:38	vial-B	SY/MD	Ok
11	P4722-01	WC-1(5.5)	VY020230.D	08 Nov 2024 14:02	Vial B	SY/MD	Ok
12	P4771-07	P-2	VY020231.D	08 Nov 2024 14:25	Vial A	SY/MD	Ok
13	P4771-05	P-1	VY020232.D	08 Nov 2024 14:48	Vial A	SY/MD	Ok
14	P4718-01	WB-307-SB01	VY020233.D	08 Nov 2024 15:12	Vial A	SY/MD	Ok
15	P4718-02	WB-307-SB02	VY020234.D	08 Nov 2024 15:35	Vial A	SY/MD	Ok
16	P4756-03	BP-B4-VOC	VY020235.D	08 Nov 2024 15:59	vial-A	SY/MD	Ok
17	P4737-01	TP2	VY020236.D	08 Nov 2024 17:49	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110824

Review By	Mahesh Dadoda	Review On	11/9/2024 4:18:55 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/11/2024 1:01:08 PM		
SubDirectory	VY110824	HP Acquire Method	MSVOA_Y	HP Processing Method	82y103024s.m

STD. NAME	STD REF.#
Tune/Reschk	VP131341
Initial Calibration Stds	
CCC	VP131342,VP131343
Internal Standard/PEM	VP128297
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	VSTDCCC050	VSTDCCC050EC	VY020237.D	08 Nov 2024 18:12		SY/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260D			11/08/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260D			11/08/24	
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP VOA	8260D			11/07/24	
P4718-04	**WB-307-SW**	**Water**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260-Low			11/14/24	
P4718-05	**TB-11042024**	**Water**			**11/04/24**			**11/05/24**
			VOC-TCLVOA-10	8260-Low			11/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								

0

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :	SW5035		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043733.D	1		11/07/24 13:56	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	5.00	ug/L
71-43-2	Benzene	0.16	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	36.8		70 (74) - 130 (125)	74%	SPK: 50
1868-53-7	Dibromofluoromethane	43.7		70 (75) - 130 (124)	87%	SPK: 50
2037-26-5	Toluene-d8	49.7		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		70 (77) - 130 (121)	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75000	5.55			
540-36-3	1,4-Difluorobenzene	135000	6.757			
3114-55-4	Chlorobenzene-d5	118000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	50300	12.024			

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,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4718-03	WB-307-SB02	1,2-Dichloroethane-d4	50	36.8	74	70 (74)	130 (125)
		Dibromofluoromethane	50	43.7	87	70 (75)	130 (124)
		Toluene-d8	50	49.7	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	45.0	90	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX1107WBL01	VX1107WBL01	1,2-Dichloroethane-d4	50	38.1	76	70 (74)	130 (125)
		Dibromofluoromethane	50	45.9	92	70 (75)	130 (124)
		Toluene-d8	50	48.8	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.7	93	70 (77)	130 (121)
VX1107WBS01	VX1107WBS01	1,2-Dichloroethane-d4	50	42.8	86	70 (74)	130 (125)
		Dibromofluoromethane	50	47.6	95	70 (75)	130 (124)
		Toluene-d8	50	48.7	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.8	98	70 (77)	130 (121)
VX1107WBSD0	VX1107WBSD01	1,2-Dichloroethane-d4	50	43.0	86	70 (74)	130 (125)
		Dibromofluoromethane	50	48.5	97	70 (75)	130 (124)
		Toluene-d8	50	47.8	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.6	95	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043729.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX1107WBS01	Vinyl chloride	20	17.9	ug/L	90			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.2	ug/L	101			70 (74)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.8	ug/L	94			70 (77)	130 (113)	
	Chloroform	20	22.4	ug/L	112			70 (79)	130 (113)	
	Benzene	20	21.5	ug/L	108			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.0	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	21.9	ug/L	110			70 (77)	130 (113)	
	Tetrachloroethene	20	20.5	ug/L	103			70 (67)	130 (123)	
	Chlorobenzene	20	22.1	ug/L	111			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX043730.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX1107WBSD01	Vinyl chloride	20	17.7	ug/L	89	1		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	21.0	ug/L	105	4		70 (74)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.4	ug/L	92	2		70 (77)	130 (113)	20 (20)
	Chloroform	20	23.7	ug/L	119	6		70 (79)	130 (113)	20 (20)
	Benzene	20	22.0	ug/L	110	2		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.8	ug/L	104	4		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	21.9	ug/L	110	0		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	21.5	ug/L	108	5		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	22.0	ug/L	110	1		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1107WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VX043728.D Lab Sample ID: VX1107WBL01

Date Analyzed: 11/07/2024 Time Analyzed: 11:53

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX1107WBS01	VX1107WBS01	VX043729.D	11/07/2024
VX1107WBSD01	VX1107WBSD01	VX043730.D	11/07/2024
WB-307-SB02	P4718-03	VX043733.D	11/07/2024

COMMENTS:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VX043555.D BFB Injection Date: 10/28/2024

Instrument ID: MSVOA_X BFB Injection Time: 10:09

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	71.2
175	5.0 - 9.0% of mass 174	5.6 (7.9) 1
176	95.0 - 101.0% of mass 174	68.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.1 (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
VSTDICC001	VSTDICC001	VX043556.D	10/28/2024	10:59
VSTDICC005	VSTDICC005	VX043557.D	10/28/2024	11:22
VSTDICC020	VSTDICC020	VX043558.D	10/28/2024	11:45
VSTDICCC050	VSTDICCC050	VX043559.D	10/28/2024	12:08
VSTDICC100	VSTDICC100	VX043560.D	10/28/2024	12:31
VSTDICC150	VSTDICC150	VX043561.D	10/28/2024	12:54

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VX043725.D BFB Injection Date: 11/07/2024

Instrument ID: MSVOA_X BFB Injection Time: 10:18

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	46.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	77.2
175	5.0 - 9.0% of mass 174	5.9 (7.6) 1
176	95.0 - 101.0% of mass 174	77.5 (100.3) 1
177	5.0 - 9.0% of mass 176	4.9 (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	VX043726.D	11/07/2024	10:46
VX1107WBL01	VX1107WBL01	VX043728.D	11/07/2024	11:53
VX1107WBS01	VX1107WBS01	VX043729.D	11/07/2024	12:19
VX1107WBSD01	VX1107WBSD01	VX043730.D	11/07/2024	12:42
WB-307-SB02	P4718-03	VX043733.D	11/07/2024	13:56

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VX043726.D Date Analyzed: 11/07/2024

Instrument ID: MSVOA_X Time Analyzed: 10:46

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	96887	5.54	175036	6.76	158336	10.05
UPPER LIMIT	193774	6.044	350072	7.257	316672	10.549
LOWER LIMIT	48443.5	5.044	87518	6.257	79168	9.549
EPA SAMPLE NO.						
WB-307-SB02	74982	5.55	134619	6.76	118244	10.06
VX1107WBL01	93207	5.55	162976	6.76	144247	10.06
VX1107WBS01	82126	5.54	153670	6.76	142458	10.06
VX1107WBSD01	83388	5.55	159680	6.76	147769	10.06

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.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: VX043726.D Date Analyzed: 11/07/2024

Instrument ID: MSVOA_X Time Analyzed: 10:46

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	77959	12.018				
UPPER LIMIT	155918	12.518				
LOWER LIMIT	38979.5	11.518				
EPA SAMPLE NO.						
WB-307-SB02	50308	12.02				
VX1107WBL01	66166	12.02				
VX1107WBS01	70080	12.02				
VX1107WBSD01	69442	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1107WBL01	SDG No.:	P4718
Lab Sample ID:	VX1107WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043728.D	1		11/07/24 11:53	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	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
67-66-3	Chloroform	0.26	U	0.26	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
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
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	38.1		70 (74) - 130 (125)	76%	SPK: 50
1868-53-7	Dibromofluoromethane	45.9		70 (75) - 130 (124)	92%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.7		70 (77) - 130 (121)	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93200	5.55			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	144000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	66200	12.024			

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1107WBS01	SDG No.:	P4718
Lab Sample ID:	VX1107WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043729.D	1		11/07/24 12:19	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.9		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.2		0.26	1.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
67-66-3	Chloroform	22.4		0.26	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.0		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.25	1.00	ug/L
108-90-7	Chlorobenzene	22.1		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	82100	5.544			
540-36-3	1,4-Difluorobenzene	154000	6.757			
3114-55-4	Chlorobenzene-d5	142000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	70100	12.024			

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
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	VX1107WBSD01	SDG No.:	P4718
Lab Sample ID:	VX1107WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX043730.D	1		11/07/24 12:42	VX110724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.7		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.0		0.26	1.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	1.00	ug/L
67-66-3	Chloroform	23.7		0.26	1.00	ug/L
71-43-2	Benzene	22.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.9		0.32	1.00	ug/L
127-18-4	Tetrachloroethene	21.5		0.25	1.00	ug/L
108-90-7	Chlorobenzene	22.0		0.13	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.0		70 (74) - 130 (125)	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	47.8		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	83400	5.55			
540-36-3	1,4-Difluorobenzene	160000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	69400	12.024			

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
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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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_X Calibration Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX043556.D RRF005 = VX043557.D RRF020 = VX043558.D
RRF050 = VX043559.D RRF100 = VX043560.D RRF150 = VX043561.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.626	0.674	0.638	0.634	0.643	0.591	0.634	4.2
1,1-Dichloroethene	0.533	0.555	0.521	0.536	0.556	0.513	0.536	3.3
2-Butanone	0.427	0.462	0.457	0.483	0.484	0.459	0.462	4.5
Carbon Tetrachloride	0.462	0.442	0.423	0.444	0.465	0.429	0.444	3.8
Chloroform	1.171	1.170	1.165	1.163	1.166	1.087	1.154	2.8
Benzene	1.335	1.396	1.383	1.355	1.333	1.246	1.341	4
1,2-Dichloroethane	0.455	0.488	0.500	0.495	0.489	0.466	0.482	3.6
Trichloroethene	0.321	0.345	0.338	0.338	0.341	0.317	0.333	3.4
Tetrachloroethene	0.337	0.323	0.327	0.309	0.308	0.284	0.314	5.8
Chlorobenzene	1.098	1.110	1.083	1.075	1.081	1.007	1.076	3.3
1,2-Dichloroethane-d4		0.902	0.794	0.785	0.771	0.735	0.797	7.9
Dibromofluoromethane		0.358	0.337	0.336	0.342	0.323	0.339	3.7
Toluene-d8		1.255	1.206	1.175	1.159	1.072	1.174	5.8
4-Bromofluorobenzene		0.446	0.431	0.444	0.439	0.415	0.435	2.9

* 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.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: MSVOA_X Calibration Date/Time: 11/07/2024 10:46

Lab File ID: VX043726.D Init. Calib. Date(s): 10/28/2024 10/28/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:59 12:54

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.634	0.517		-18.45	20
1,1-Dichloroethene	0.536	0.495		-7.65	20
2-Butanone	0.462	0.478		3.46	20
Carbon Tetrachloride	0.444	0.402		-9.46	20
Chloroform	1.154	1.135		-1.65	20
Benzene	1.341	1.287		-4.03	20
1,2-Dichloroethane	0.482	0.452		-6.22	20
Trichloroethene	0.333	0.326		-2.1	20
Tetrachloroethene	0.314	0.299		-4.78	20
Chlorobenzene	1.076	1.077	0.3	0.09	20
1,2-Dichloroethane-d4	0.797	0.734		-7.91	20
Dibromofluoromethane	0.339	0.358		5.61	20
Toluene-d8	1.174	1.214		3.41	20
4-Bromofluorobenzene	0.435	0.470		8.05	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_X\Data\VX110724\
Data File : VX043733.D
Acq On : 07 Nov 2024 13:56
Operator : JC/MD
Sample : P4718-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 04:07:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

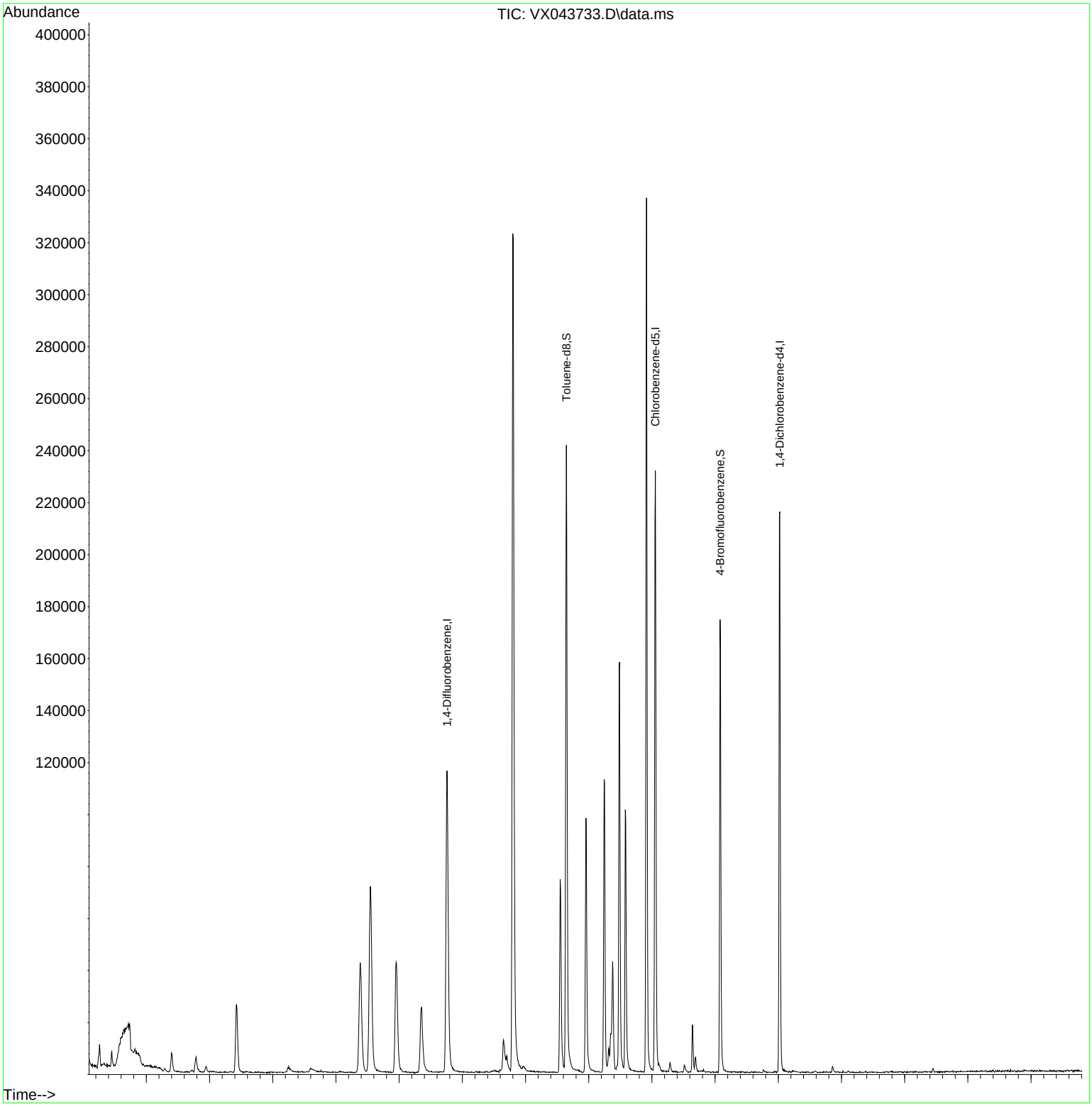
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	74982	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	134619	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	118244	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	50308	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	43950	36.760	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	73.520%#		
35) Dibromofluoromethane	5.385	113	39878	43.685	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	87.380%		
50) Toluene-d8	8.647	98	157069	49.706	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.420%		
62) 4-Bromofluorobenzene	11.079	95	52711	45.017	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.040%		
Target Compounds						Qvalue
16) Acetone	2.404	43	8728	18.383	ug/l	95
20) Methylene Chloride	2.788	84	3524	3.444	ug/l #	87
43) Isopropyl Acetate	6.348	43	39098	17.991	ug/l	97

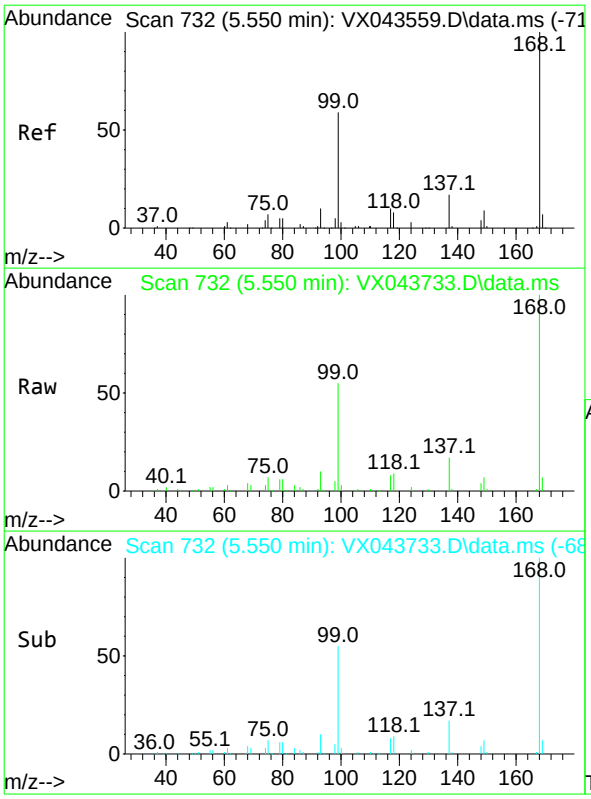
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043733.D
Acq On : 07 Nov 2024 13:56
Operator : JC/MD
Sample : P4718-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Quant Time: Nov 08 04:07:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



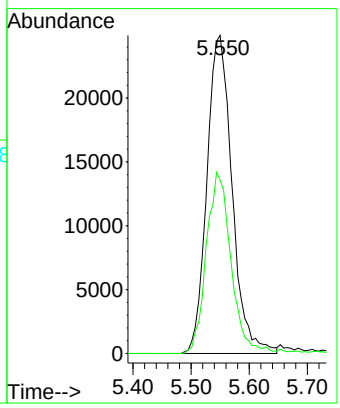


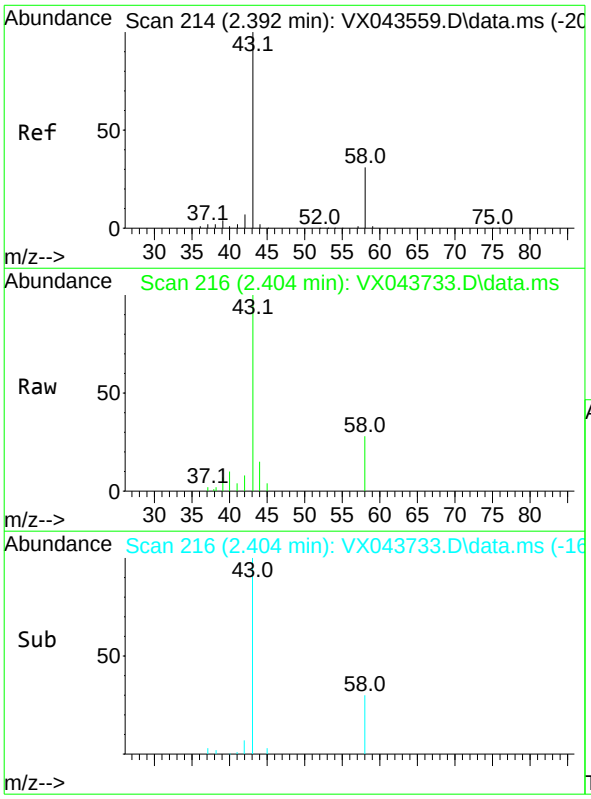
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Tgt Ion:168 Resp: 74982

Ion	Ratio	Lower	Upper
168	100		
99	54.5	52.6	78.8

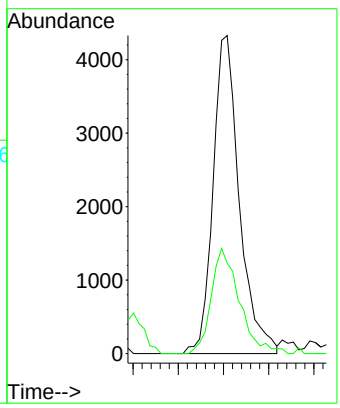


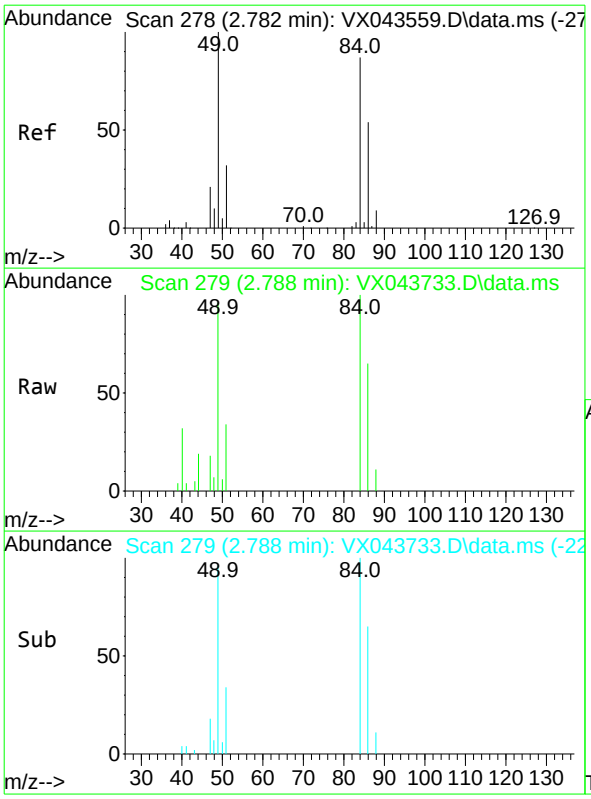


#16
Acetone
Concen: 18.383 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.006 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Tgt Ion: 43 Resp: 8728

Ion	Ratio	Lower	Upper
43	100		
58	28.4	25.1	37.7



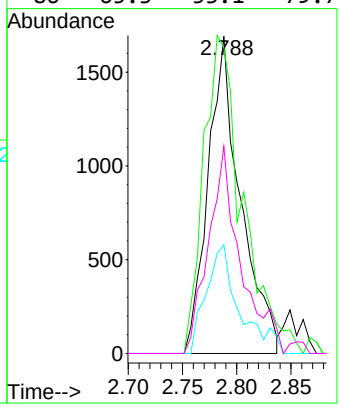


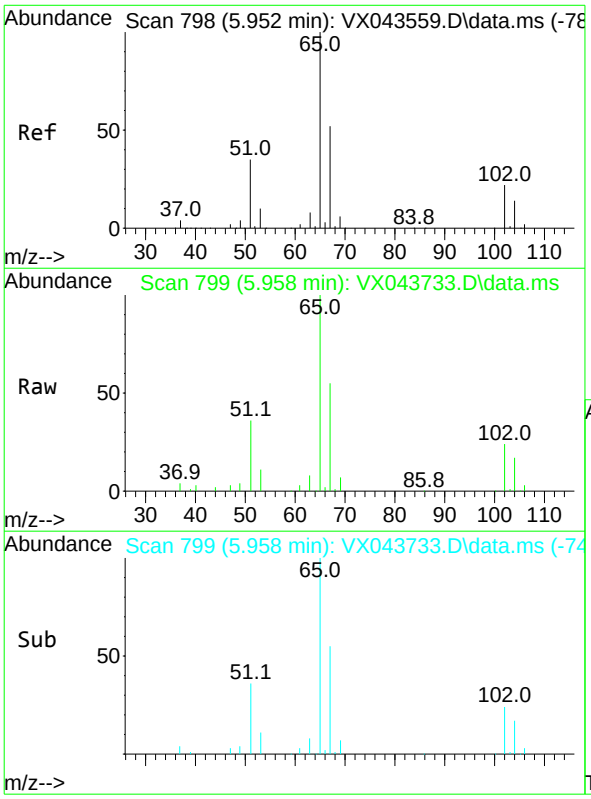
#20
Methylene Chloride
Concen: 3.444 ug/l
RT: 2.788 min Scan# 27
Delta R.T. 0.006 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Tgt Ion: 84 Resp: 3524

Ion	Ratio	Lower	Upper
84	100		
49	96.4	97.0	145.6#
51	34.3	29.8	44.8
86	65.3	53.1	79.7

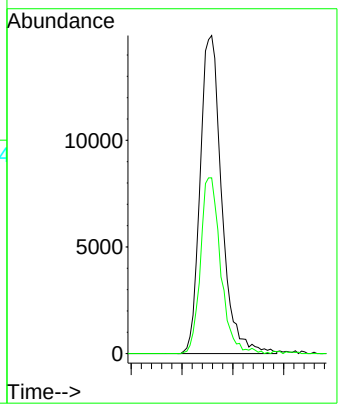


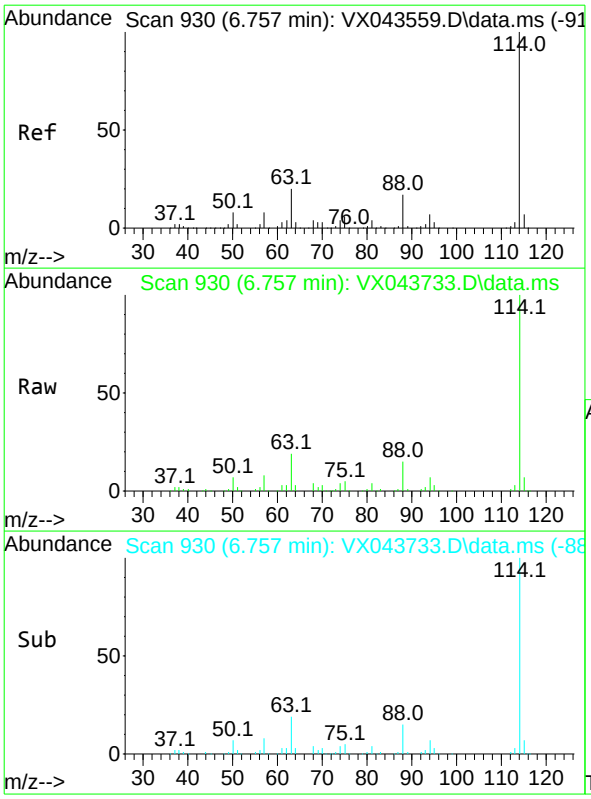


#33
1,2-Dichloroethane-d4
Concen: 36.760 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Tgt Ion: 65 Resp: 43950

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.4



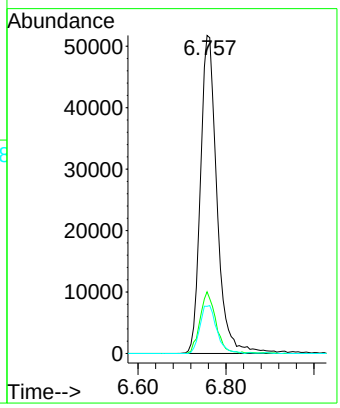


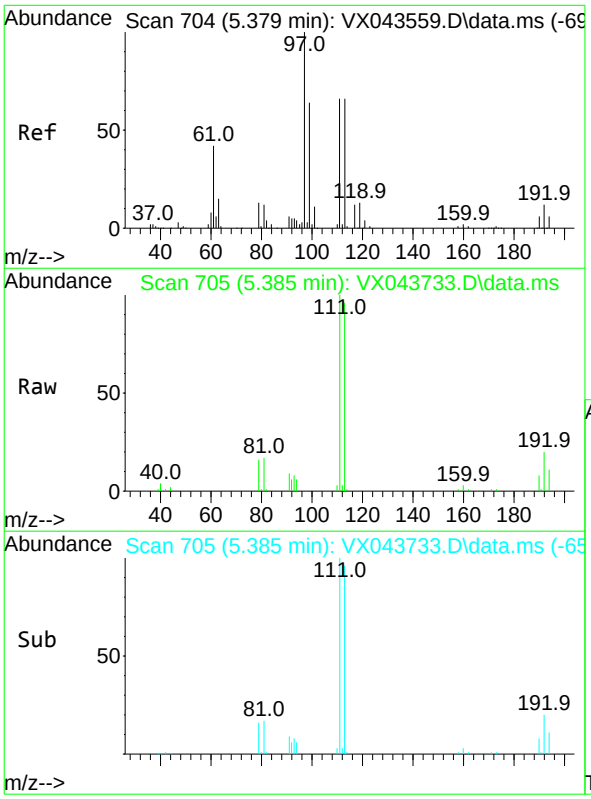
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Tgt Ion:114 Resp: 134619

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	41.2
88	14.8	0.0	34.0

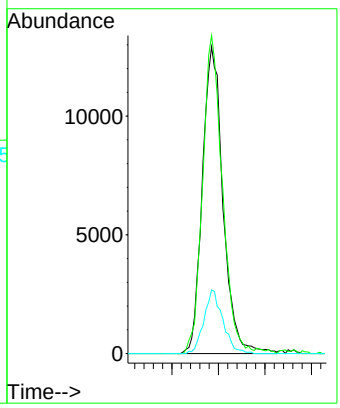




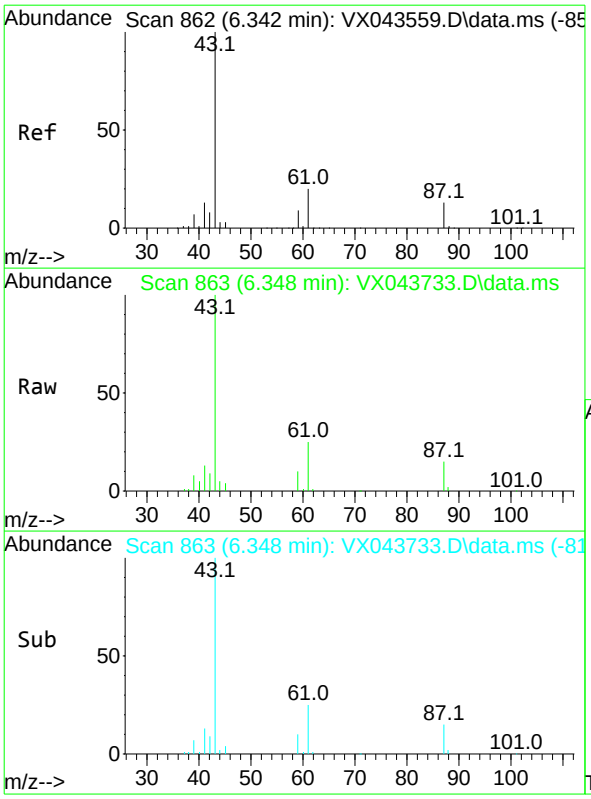
#35
Dibromofluoromethane
Concen: 43.685 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Tgt Ion:113 Resp: 39878

Ion	Ratio	Lower	Upper
113	100		
111	99.0	81.4	122.0
192	19.0	14.1	21.1



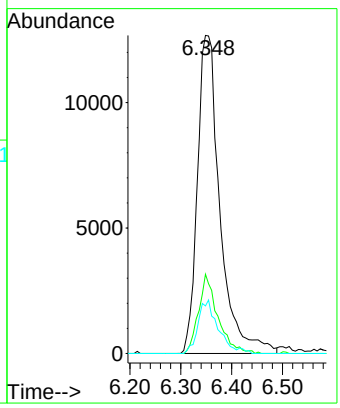
Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

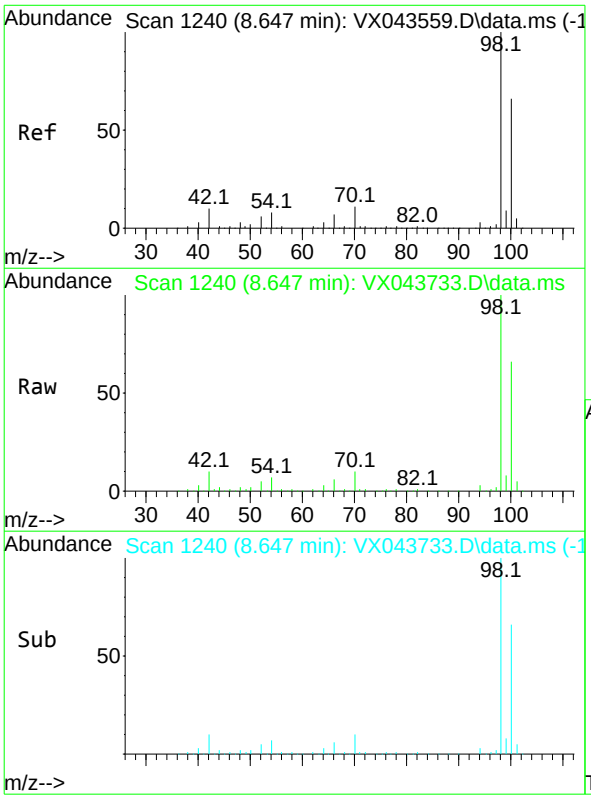


#43
Isopropyl Acetate
Concen: 17.991 ug/l
RT: 6.348 min Scan# 86
Delta R.T. 0.006 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Tgt Ion: 43 Resp: 39098

Ion	Ratio	Lower	Upper
43	100		
61	21.3	16.2	24.4
87	15.1	11.0	16.6

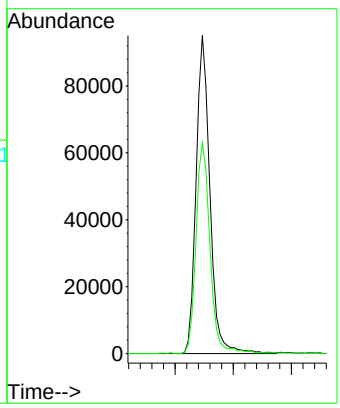


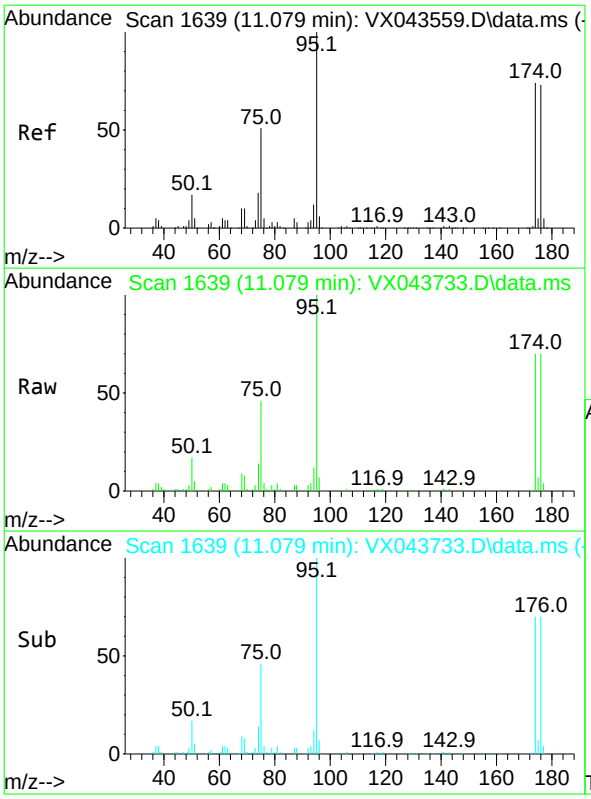


#50
Toluene-d8
Concen: 49.706 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Tgt Ion: 98 Resp: 157069

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.4	80.2



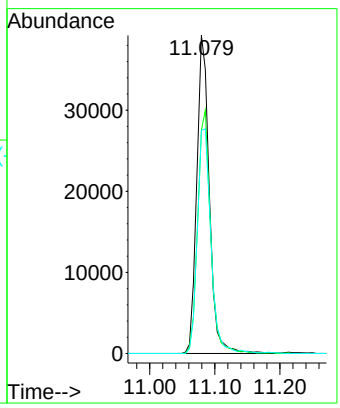


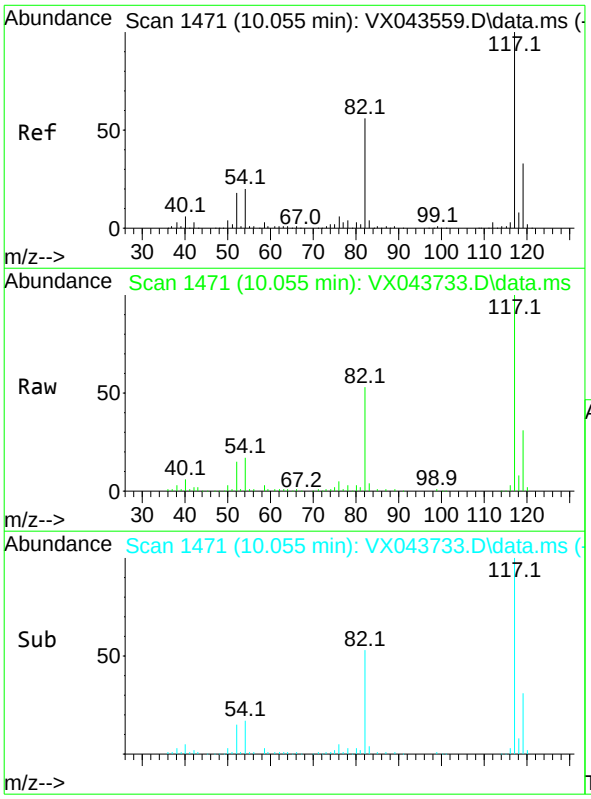
#62
4-Bromofluorobenzene
Concen: 45.017 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Tgt Ion: 95 Resp: 52711

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	146.6
176	76.4	0.0	139.6

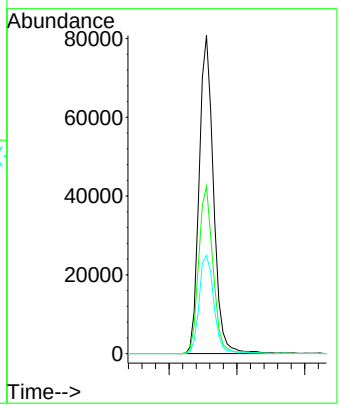


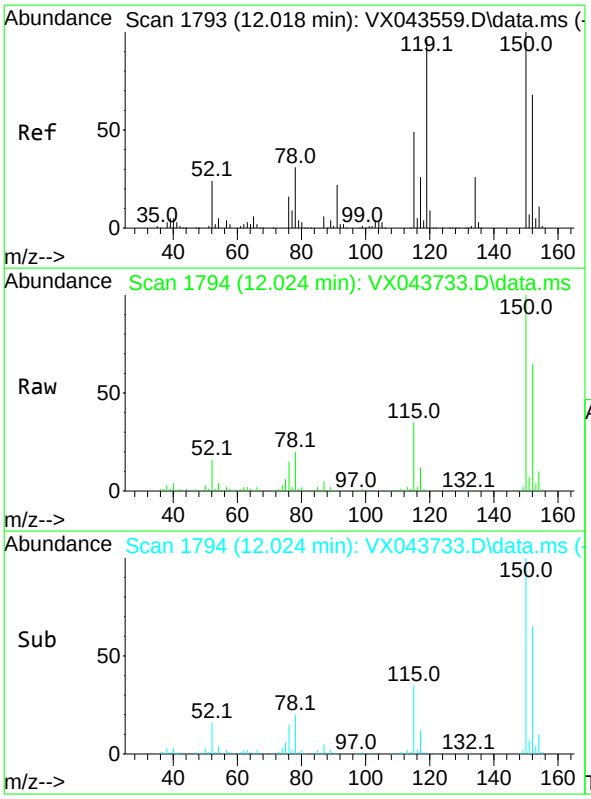


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Tgt Ion:117 Resp: 118244

Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.1	63.1
119	30.9	25.4	38.2



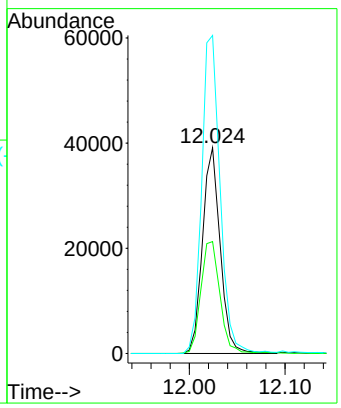


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX043733.D
Acq: 07 Nov 2024 13:56

Instrument :
MSVOA_X
ClientSampleId :
WB-307-SB02

Tgt Ion:152 Resp: 50308

Ion	Ratio	Lower	Upper
152	100		
115	58.9	42.9	128.7
150	160.7	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043728.D
Acq On : 07 Nov 2024 11:53
Operator : JC/MD
Sample : VX1107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

Quant Time: Nov 08 04:04:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

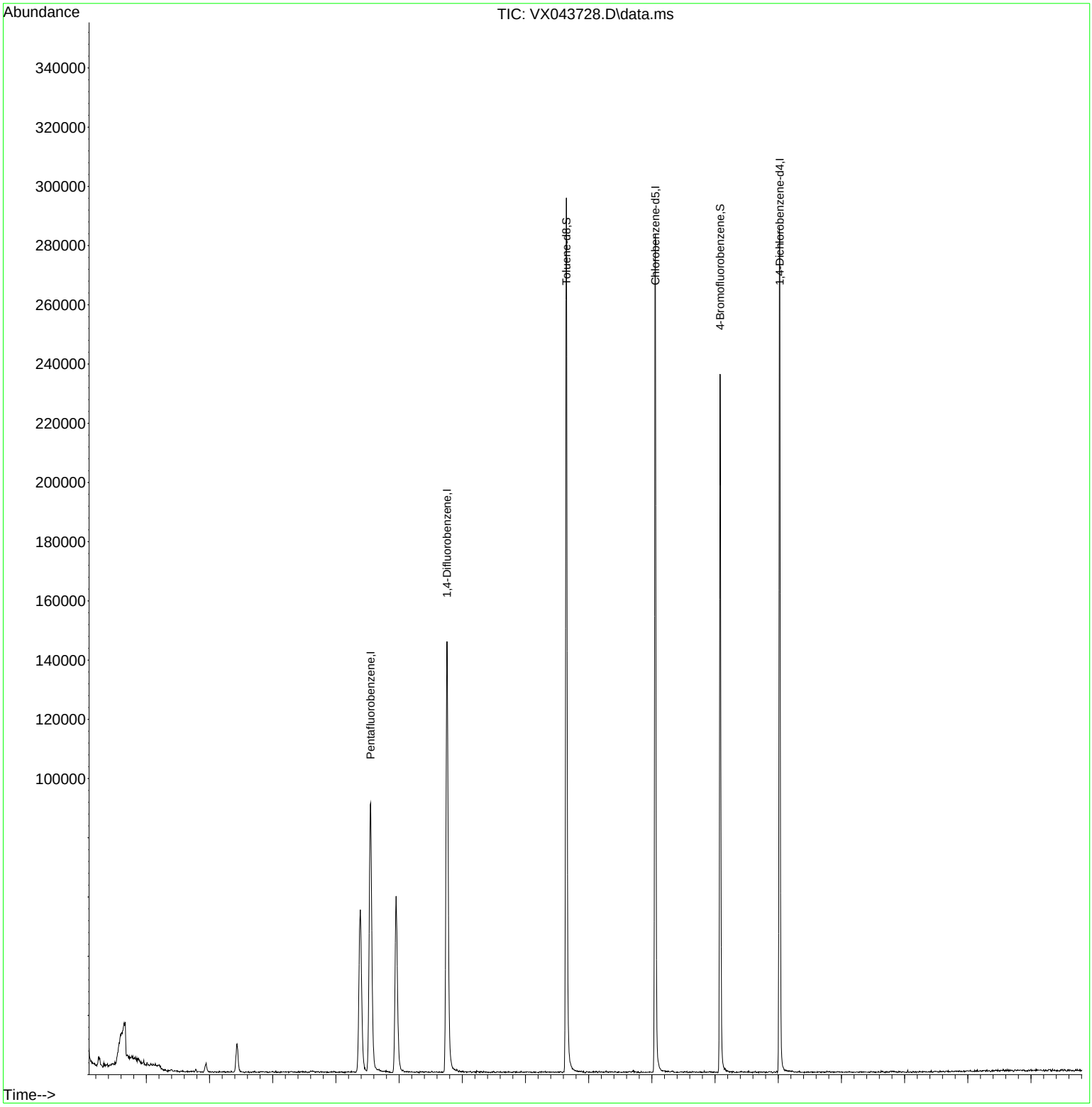
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	93207	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162976	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	144247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	66166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	56688	38.143	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	76.280%		
35) Dibromofluoromethane	5.385	113	50670	45.850	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.700%		
50) Toluene-d8	8.647	98	186832	48.838	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.680%		
62) 4-Bromofluorobenzene	11.079	95	66258	46.741	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.480%		
Target Compounds						Qvalue

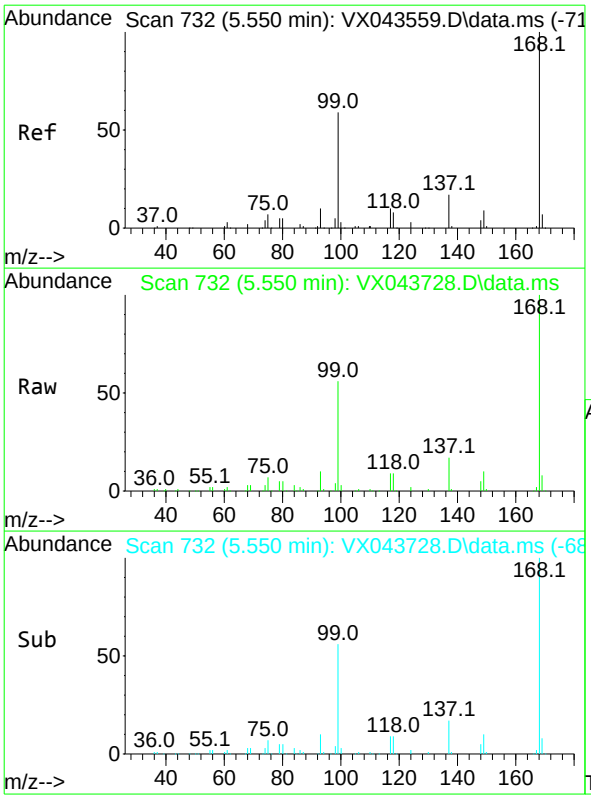
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043728.D
Acq On : 07 Nov 2024 11:53
Operator : JC/MD
Sample : VX1107WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

Quant Time: Nov 08 04:04:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration



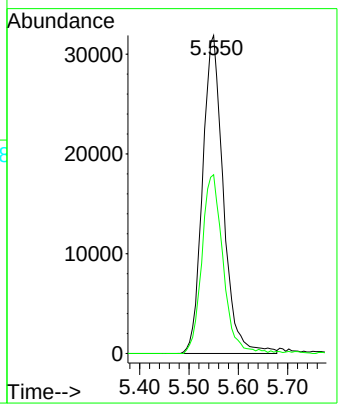


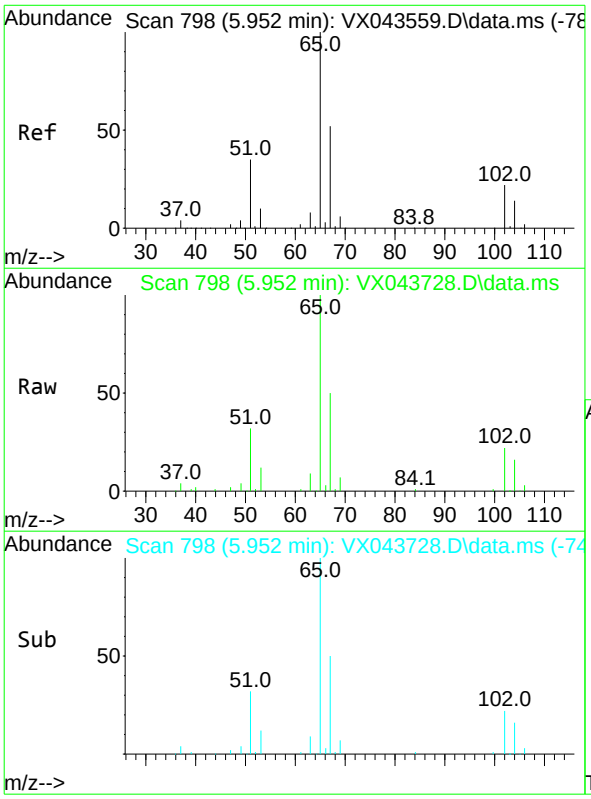
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

Tgt Ion:168 Resp: 93207

Ion	Ratio	Lower	Upper
168	100		
99	56.2	52.6	78.8

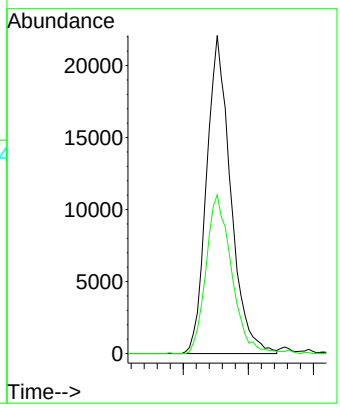


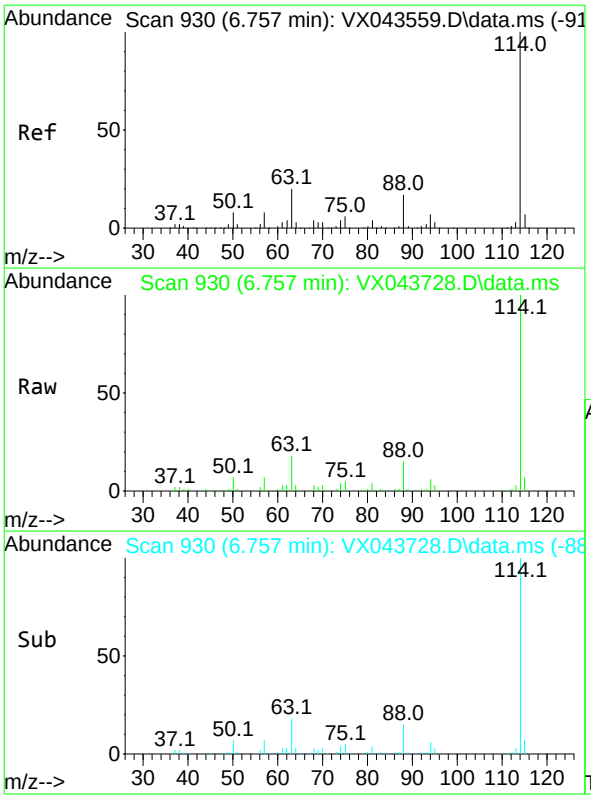


#33
1,2-Dichloroethane-d4
Concen: 38.143 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Tgt Ion: 65 Resp: 56688

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	103.4



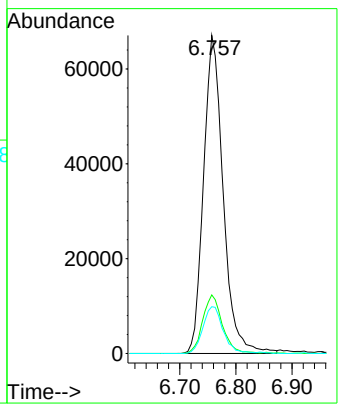


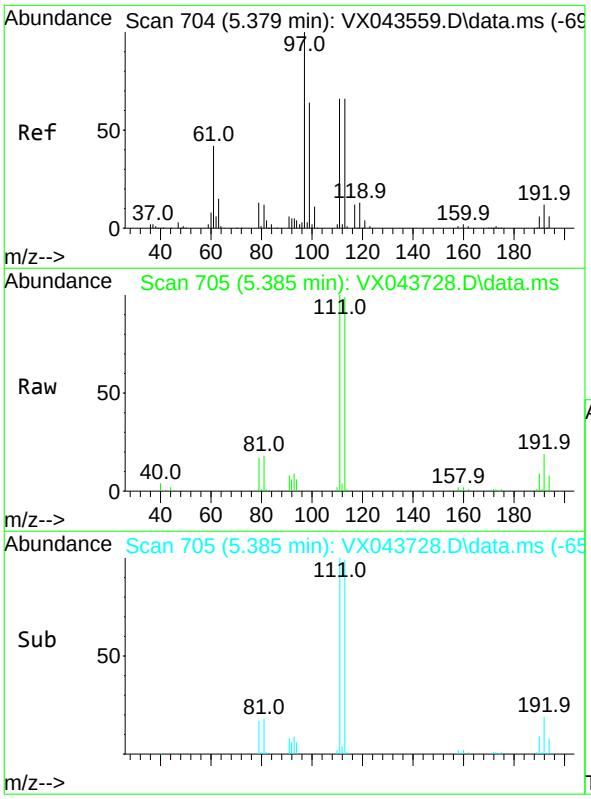
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

Tgt Ion:114 Resp: 162976

Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	41.2
88	14.7	0.0	34.0

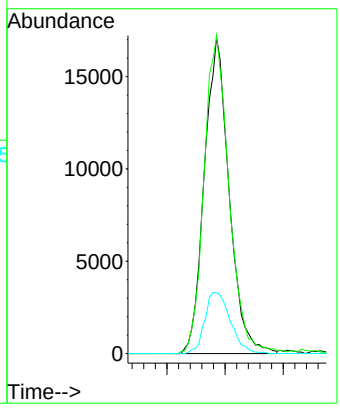


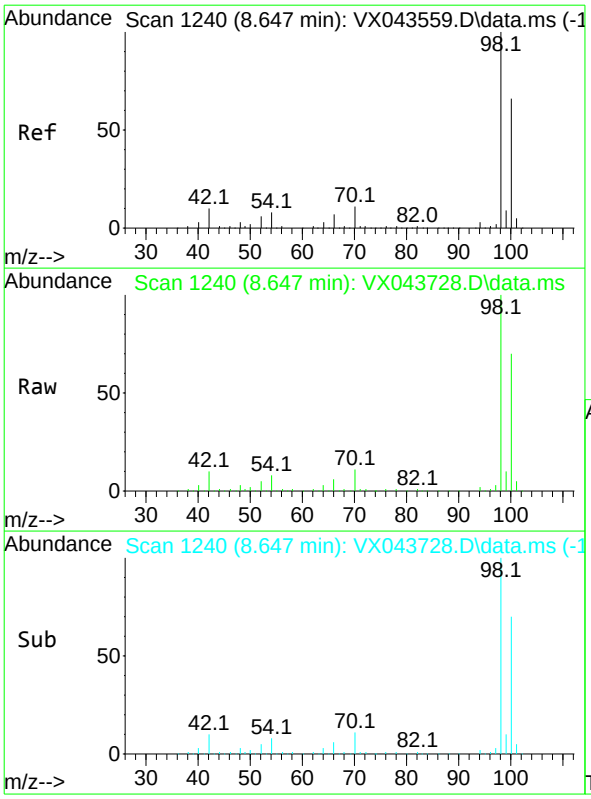


#35
Dibromofluoromethane
Concen: 45.850 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Tgt Ion:113 Resp: 50670

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.0
192	20.0	14.1	21.1



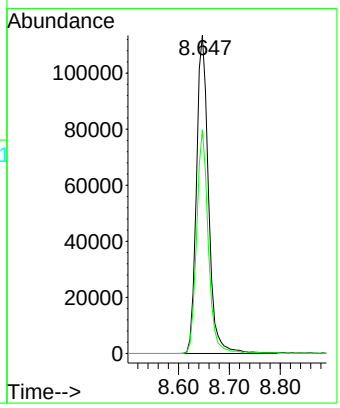


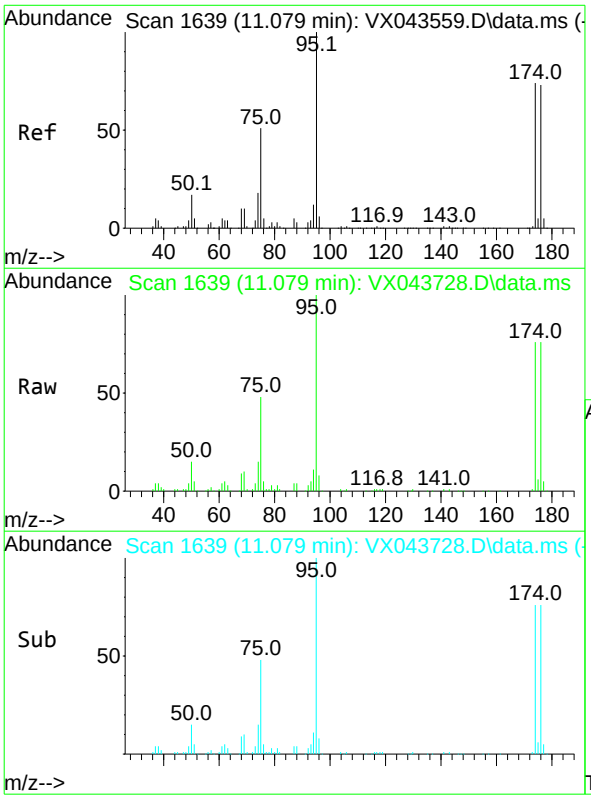
#50
Toluene-d8
Concen: 48.838 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

Tgt Ion: 98 Resp: 186832

Ion	Ratio	Lower	Upper
98	100		
100	67.7	53.4	80.2

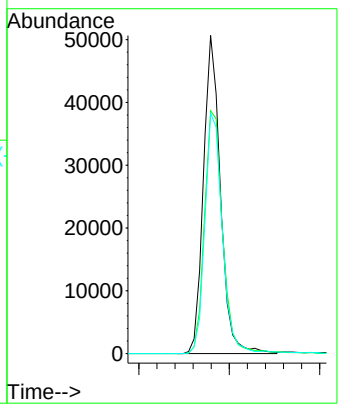


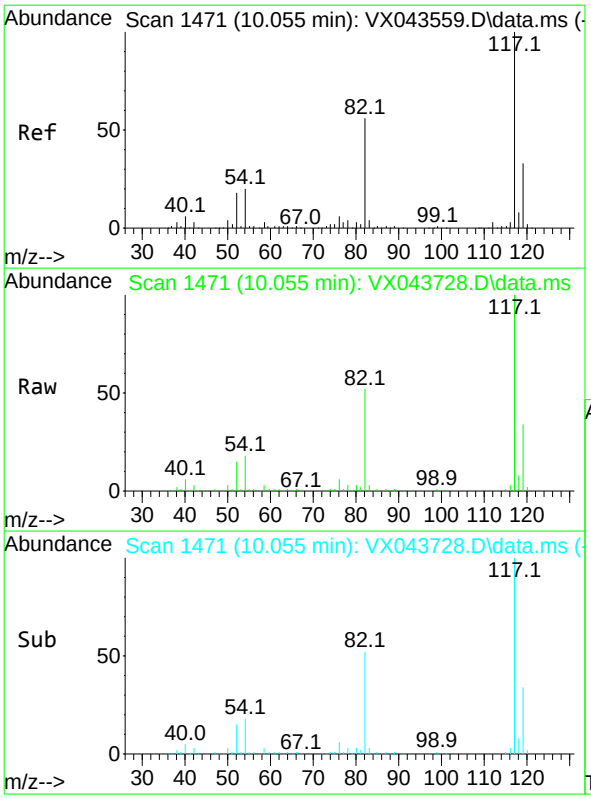


#62
4-Bromofluorobenzene
Concen: 46.741 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Tgt Ion: 95 Resp: 66258

Ion	Ratio	Lower	Upper
95	100		
174	81.8	0.0	146.6
176	78.4	0.0	139.6



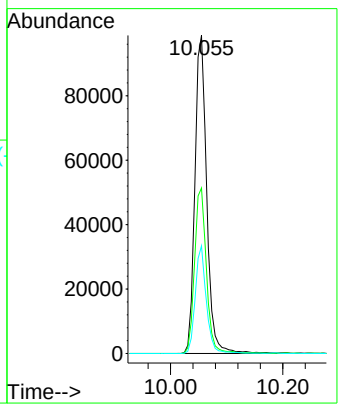


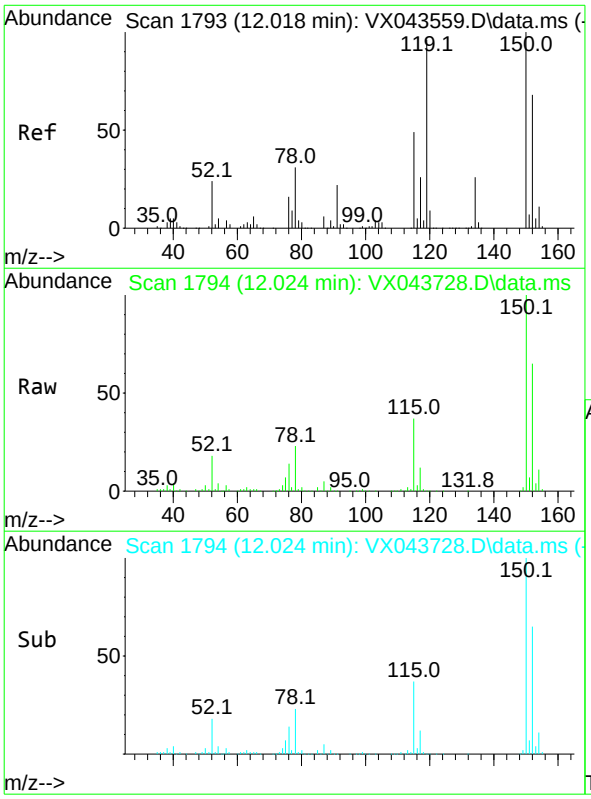
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBL01

Tgt Ion:117 Resp: 144247

Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.1	63.1
119	33.8	25.4	38.2

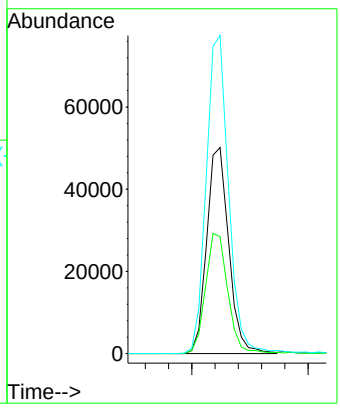




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX043728.D
Acq: 07 Nov 2024 11:53

Tgt Ion:152 Resp: 66166

Ion	Ratio	Lower	Upper
152	100		
115	59.2	42.9	128.7
150	156.8	0.0	343.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043729.D
Acq On : 07 Nov 2024 12:19
Operator : JC/MD
Sample : VX1107WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:04:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	82126	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	153670	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	142458	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	70080	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	56078	42.823	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.640%		
35) Dibromofluoromethane	5.379	113	49651	47.648	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.300%		
50) Toluene-d8	8.647	98	175576	48.675	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.340%		
62) 4-Bromofluorobenzene	11.079	95	65254	48.820	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.640%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	14504	16.514	ug/l	96
3) Chloromethane	1.294	50	19760	17.600	ug/l	98
4) Vinyl Chloride	1.374	62	18616	17.866	ug/l	97
5) Bromomethane	1.593	94	9851	23.191	ug/l	100
6) Chloroethane	1.660	64	8298	22.604	ug/l	89
7) Trichlorofluoromethane	1.867	101	26027	20.447	ug/l	94
8) Diethyl Ether	2.136	74	13374	22.740	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	18635	21.647	ug/l	96
10) Methyl Iodide	2.447	142	28517	22.928	ug/l	94
11) Tert butyl alcohol	2.995	59	26648m	109.025	ug/l	
12) 1,1-Dichloroethene	2.306	96	17766	20.195	ug/l	92
13) Acrolein	2.239	56	9070	47.451	ug/l	91
14) Allyl chloride	2.654	41	30200	19.848	ug/l	95
15) Acrylonitrile	3.068	53	59412	107.661	ug/l	99
16) Acetone	2.386	43	52090	100.170	ug/l	95
17) Carbon Disulfide	2.501	76	29973	16.294	ug/l	99
18) Methyl Acetate	2.703	43	30514	20.078	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	70511	21.076	ug/l	100
20) Methylene Chloride	2.782	84	24424	21.793	ug/l	93
21) trans-1,2-Dichloroethene	3.087	96	19194	20.652	ug/l	95
22) Diisopropyl ether	3.757	45	69527	22.106	ug/l #	85
23) Vinyl Acetate	3.721	43	260086	100.097	ug/l	97
24) 1,1-Dichloroethane	3.599	63	39245	21.710	ug/l	98
25) 2-Butanone	4.562	43	79634	104.981	ug/l	94
26) 2,2-Dichloropropane	4.471	77	28992	19.593	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	27282	22.979	ug/l	94
28) Bromochloromethane	4.891	49	18808	21.872	ug/l	91
29) Tetrahydrofuran	5.007	42	50424	102.289	ug/l	96
30) Chloroform	5.086	83	42494	22.425	ug/l	96
31) Cyclohexane	5.452	56	26041	18.835	ug/l	92
32) 1,1,1-Trichloroethane	5.379	97	31847	20.018	ug/l	98
36) 1,1-Dichloropropene	5.690	75	24013	19.434	ug/l	99
37) Ethyl Acetate	4.727	43	27949	18.632	ug/l	94
38) Carbon Tetrachloride	5.665	117	25616	18.763	ug/l	94
39) Methylcyclohexane	7.379	83	29250	19.067	ug/l	93
40) Benzene	6.031	78	88584	21.490	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043729.D
Acq On : 07 Nov 2024 12:19
Operator : JC/MD
Sample : VX1107WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:04:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.928	41	14948	18.984 ug/l		90
42) 1,2-Dichloroethane	6.080	62	29602	19.976 ug/l		96
43) Isopropyl Acetate	6.342	43	47093	18.983 ug/l		95
44) Trichloroethene	7.123	130	22407	21.881 ug/l		95
45) 1,2-Dichloropropane	7.427	63	22271	21.943 ug/l		98
46) Dibromomethane	7.580	93	15512	19.849 ug/l		90
47) Bromodichloromethane	7.818	83	29243	21.330 ug/l		93
48) Methyl methacrylate	7.696	41	21229	18.049 ug/l		92
49) 1,4-Dioxane	7.665	88	12299	508.971 ug/l		93
51) 4-Methyl-2-Pentanone	8.573	43	155067	102.556 ug/l		98
52) Toluene	8.714	92	56482	22.594 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	29262	19.872 ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	34071	21.716 ug/l		94
55) 1,1,2-Trichloroethane	9.153	97	23713	22.789 ug/l		99
56) Ethyl methacrylate	9.116	69	34395	20.342 ug/l		92
57) 1,3-Dichloropropane	9.305	76	37575	21.711 ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	66286	80.947 ug/l		95
59) 2-Hexanone	9.433	43	117046	101.922 ug/l		96
60) Dibromochloromethane	9.518	129	22446	21.784 ug/l		99
61) 1,2-Dibromoethane	9.610	107	23692	21.934 ug/l		96
64) Tetrachloroethene	9.275	164	18409	20.546 ug/l		88
65) Chlorobenzene	10.079	112	67694	22.087 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.165	131	22716	22.691 ug/l		97
67) Ethyl Benzene	10.195	91	100015	20.013 ug/l		97
68) m/p-Xylenes	10.299	106	81427	42.605 ug/l		95
69) o-Xylene	10.640	106	43245	22.521 ug/l		92
70) Styrene	10.652	104	71706	22.467 ug/l		97
71) Bromoform	10.799	173	13378	18.586 ug/l	#	94
73) Isopropylbenzene	10.963	105	99911	20.126 ug/l		99
74) N-amyl acetate	10.841	43	40172	16.612 ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.213	83	35503	19.889 ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	28437m	18.978 ug/l		
77) Bromobenzene	11.195	156	29110	22.710 ug/l		92
78) n-propylbenzene	11.305	91	108852	20.111 ug/l		98
79) 2-Chlorotoluene	11.366	91	75271	20.972 ug/l		96
80) 1,3,5-Trimethylbenzene	11.451	105	87193	21.066 ug/l		95
81) trans-1,4-Dichloro-2-b...	11.018	75	9083	16.676 ug/l		96
82) 4-Chlorotoluene	11.451	91	84149	20.889 ug/l		95
83) tert-Butylbenzene	11.713	119	86932	20.651 ug/l		97
84) 1,2,4-Trimethylbenzene	11.750	105	90429	21.438 ug/l		98
85) sec-Butylbenzene	11.890	105	100422	20.353 ug/l		99
86) p-Isopropyltoluene	12.006	119	86194	20.551 ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	52115	22.683 ug/l		98
88) 1,4-Dichlorobenzene	12.042	146	52215	21.933 ug/l		98
89) n-Butylbenzene	12.335	91	67735	19.820 ug/l		98
90) Hexachloroethane	12.536	117	13551	19.891 ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	53372	22.718 ug/l		97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	6303	17.320 ug/l		87
93) 1,2,4-Trichlorobenzene	13.585	180	30127	21.126 ug/l		98
94) Hexachlorobutadiene	13.725	225	11056	21.028 ug/l		98
95) Naphthalene	13.774	128	105290	19.294 ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	30874	20.534 ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043729.D
Acq On : 07 Nov 2024 12:19
Operator : JC/MD
Sample : VX1107WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:04:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

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

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

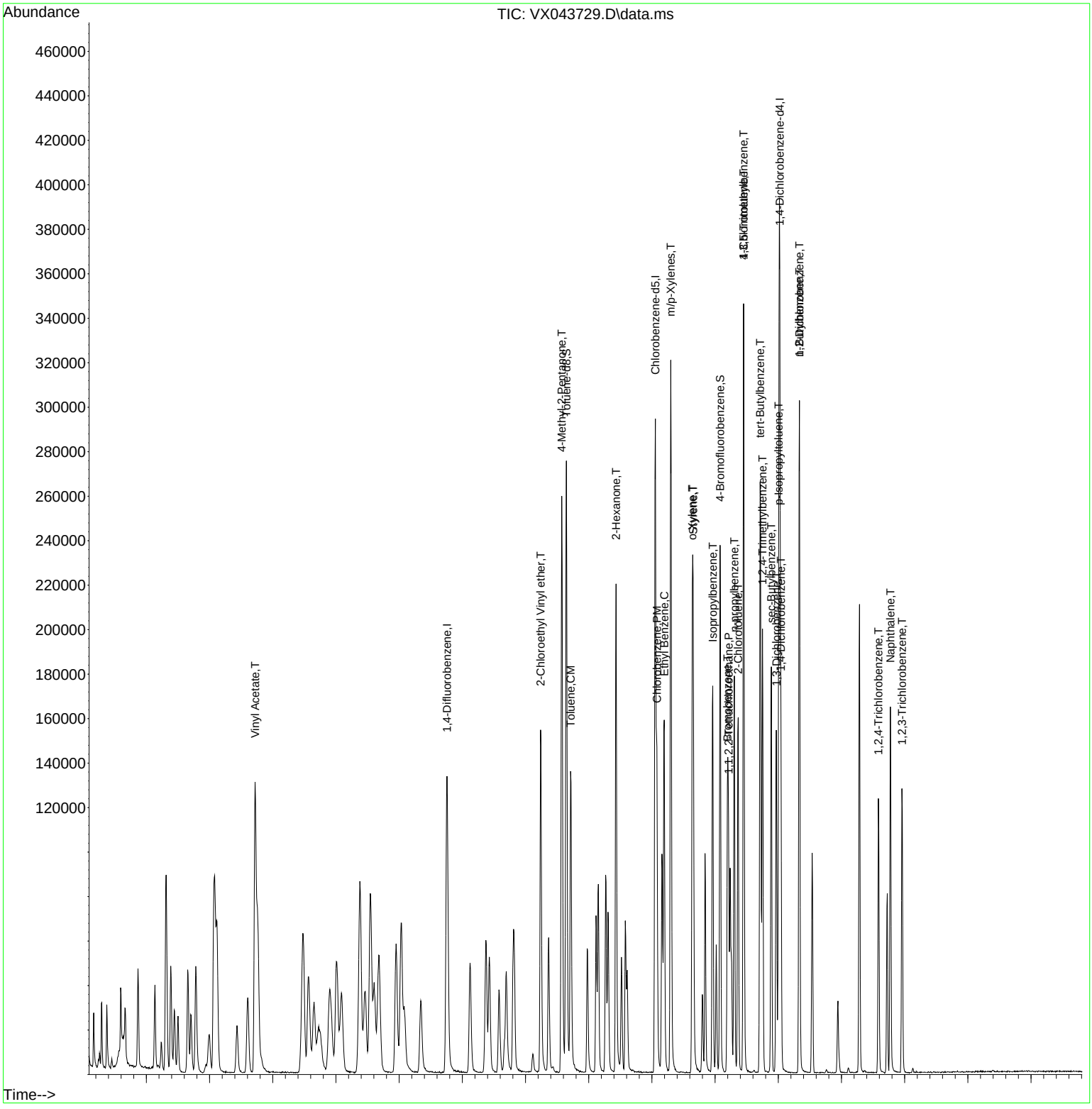
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043729.D
Acq On : 07 Nov 2024 12:19
Operator : JC/MD
Sample : VX1107WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:04:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043730.D
Acq On : 07 Nov 2024 12:42
Operator : JC/MD
Sample : VX1107WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:05:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	83388	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	159680	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	147769	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	69442	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	57189	43.011	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.020%		
35) Dibromofluoromethane	5.385	113	52499	48.485	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.980%		
50) Toluene-d8	8.647	98	179219	47.815	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.620%		
62) 4-Bromofluorobenzene	11.079	95	66065	47.566	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.140%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	14592	16.363	ug/l	95
3) Chloromethane	1.288	50	20557	18.033	ug/l	98
4) Vinyl Chloride	1.374	62	18771	17.742	ug/l	93
5) Bromomethane	1.593	94	10025	23.243	ug/l	100
6) Chloroethane	1.666	64	12172	32.656	ug/l	95
7) Trichlorofluoromethane	1.868	101	26893	20.807	ug/l	97
8) Diethyl Ether	2.136	74	13189	22.086	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	18021	20.617	ug/l	96
10) Methyl Iodide	2.447	142	30039	23.787	ug/l	96
11) Tert butyl alcohol	2.989	59	29692m	119.640	ug/l	
12) 1,1-Dichloroethene	2.313	96	18716	20.953	ug/l	87
13) Acrolein	2.240	56	10315	53.147	ug/l	100
14) Allyl chloride	2.660	41	30979	20.052	ug/l	96
15) Acrylonitrile	3.069	53	62881	112.222	ug/l	98
16) Acetone	2.386	43	54470	103.162	ug/l	89
17) Carbon Disulfide	2.502	76	30208	16.173	ug/l	99
18) Methyl Acetate	2.703	43	32733	21.212	ug/l	94
19) Methyl tert-butyl Ether	3.117	73	75867	22.333	ug/l	97
20) Methylene Chloride	2.782	84	25027	21.993	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	20645	21.877	ug/l	92
22) Diisopropyl ether	3.764	45	75020	23.492	ug/l	94
23) Vinyl Acetate	3.721	43	280518	106.327	ug/l	97
24) 1,1-Dichloroethane	3.605	63	41544	22.634	ug/l #	93
25) 2-Butanone	4.568	43	84341	109.504	ug/l	98
26) 2,2-Dichloropropane	4.477	77	31119	20.713	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	28638	23.757	ug/l	95
28) Bromochloromethane	4.898	49	21140	24.211	ug/l	99
29) Tetrahydrofuran	5.007	42	54133	108.151	ug/l	96
30) Chloroform	5.087	83	45637	23.719	ug/l	94
31) Cyclohexane	5.465	56	25667	18.283	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	33961	21.024	ug/l	96
36) 1,1-Dichloropropene	5.690	75	22952	17.876	ug/l	96
37) Ethyl Acetate	4.721	43	30851	19.792	ug/l	95
38) Carbon Tetrachloride	5.666	117	26081	18.384	ug/l	97
39) Methylcyclohexane	7.373	83	28982	18.181	ug/l	93
40) Benzene	6.032	78	94305	22.017	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043730.D
Acq On : 07 Nov 2024 12:42
Operator : JC/MD
Sample : VX1107WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:05:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	17436	21.310 ug/l	94
42) 1,2-Dichloroethane	6.086	62	32026	20.798 ug/l	97
43) Isopropyl Acetate	6.349	43	50450	19.571 ug/l	97
44) Trichloroethene	7.123	130	23289	21.886 ug/l	84
45) 1,2-Dichloropropane	7.428	63	22655	21.481 ug/l	92
46) Dibromomethane	7.580	93	16963	20.889 ug/l	93
47) Bromodichloromethane	7.818	83	31365	22.017 ug/l	96
48) Methyl methacrylate	7.696	41	24007	19.643 ug/l	93
49) 1,4-Dioxane	7.665	88	11815	470.539 ug/l	92
51) 4-Methyl-2-Pentanone	8.574	43	165707	105.468 ug/l	98
52) Toluene	8.714	92	58335	22.457 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	31022	20.275 ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	35950	22.051 ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	25518	23.600 ug/l	97
56) Ethyl methacrylate	9.116	69	36371	20.702 ug/l	92
57) 1,3-Dichloropropane	9.305	76	40831	22.705 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	71667	84.224 ug/l	98
59) 2-Hexanone	9.433	43	123931	103.856 ug/l	96
60) Dibromochloromethane	9.519	129	24886	23.243 ug/l	99
61) 1,2-Dibromoethane	9.610	107	24783	22.080 ug/l	99
64) Tetrachloroethene	9.275	164	20016	21.537 ug/l	87
65) Chlorobenzene	10.080	112	69890	21.984 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	23821	22.940 ug/l	99
67) Ethyl Benzene	10.195	91	105328	20.318 ug/l	98
68) m/p-Xylenes	10.299	106	85190	42.972 ug/l	92
69) o-Xylene	10.640	106	45171	22.678 ug/l	94
70) Styrene	10.653	104	76956	23.245 ug/l	96
71) Bromoform	10.799	173	14629	19.593 ug/l #	94
73) Isopropylbenzene	10.964	105	102728	20.884 ug/l	98
74) N-amyl acetate	10.842	43	43878	18.311 ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.214	83	37430	21.161 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30179m	20.326 ug/l	
77) Bromobenzene	11.195	156	29328	23.090 ug/l	92
78) n-propylbenzene	11.305	91	110840	20.666 ug/l	97
79) 2-Chlorotoluene	11.360	91	78611	22.104 ug/l	94
80) 1,3,5-Trimethylbenzene	11.451	105	88593	21.601 ug/l	96
81) trans-1,4-Dichloro-2-b...	11.018	75	9273	17.181 ug/l	95
82) 4-Chlorotoluene	11.451	91	87233	21.853 ug/l	96
83) tert-Butylbenzene	11.713	119	88738	21.274 ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	92304	22.083 ug/l	99
85) sec-Butylbenzene	11.890	105	100348	20.524 ug/l	98
86) p-Isopropyltoluene	12.006	119	88535	21.303 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	52339	22.990 ug/l	98
88) 1,4-Dichlorobenzene	12.037	146	53593	22.719 ug/l	98
89) n-Butylbenzene	12.329	91	65827	19.438 ug/l	97
90) Hexachloroethane	12.536	117	13486	19.977 ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	53907	23.156 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	6446	17.876 ug/l	87
93) 1,2,4-Trichlorobenzene	13.585	180	29899	21.159 ug/l	98
94) Hexachlorobutadiene	13.725	225	10101	19.388 ug/l	93
95) Naphthalene	13.774	128	107989	19.971 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	31916	21.422 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043730.D
Acq On : 07 Nov 2024 12:42
Operator : JC/MD
Sample : VX1107WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:05:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024

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

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

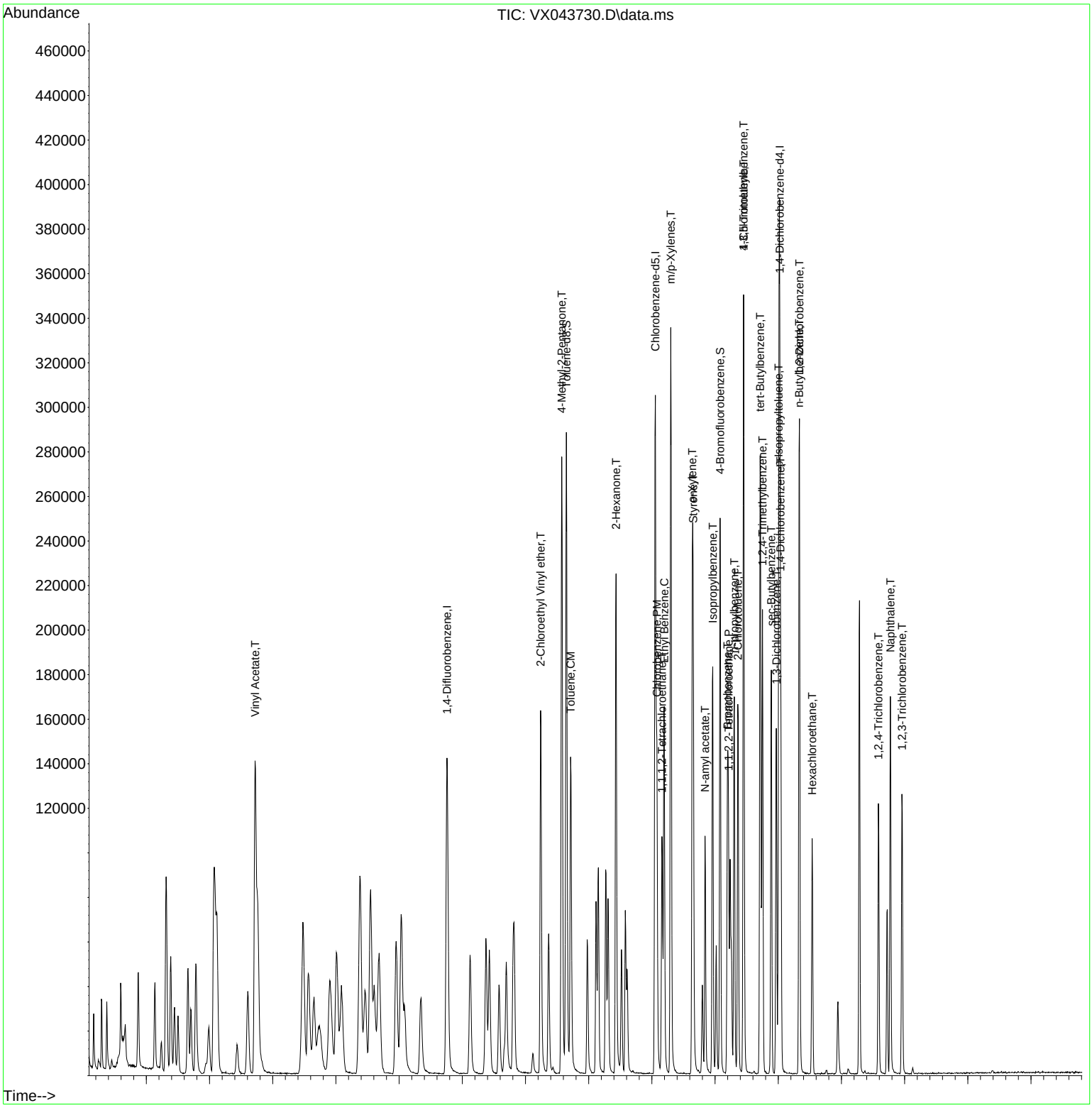
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110724\
Data File : VX043730.D
Acq On : 07 Nov 2024 12:42
Operator : JC/MD
Sample : VX1107WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 08 04:05:44 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102824W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 28 13:41:34 2024
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1107WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/08/2024
Supervised By :Semsettin Yesilyurt 11/08/2024



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

Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX043556.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	1,4-Dichlorobenzene	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Ethyl Acetate	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC001	VX043556.D	Methacrylonitrile	SAM	10/29/2024 8:57:08 AM	MMDadoda	10/29/2024 12:19:41 PM	Peak Integrated by Software
VSTDICC005	VX043557.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:13 AM	MMDadoda	10/29/2024 12:19:39 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICC020	VX043558.D	Tert butyl alcohol	SAM	10/29/2024 8:57:18 AM	MMDadoda	10/29/2024 12:19:37 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICCC050	VX043559.D	Tert butyl alcohol	SAM	10/29/2024 8:57:53 AM	MMDadoda	10/29/2024 12:19:36 PM	Peak Integrated by Software
VSTDICC100	VX043560.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:22 AM	MMDadoda	10/29/2024 12:19:34 PM	Peak Integrated by Software
VSTDICC150	VX043561.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:57 AM	MMDadoda	10/29/2024 12:19:32 PM	Peak Integrated by Software
VSTDICV050	VX043563.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:27 AM	MMDadoda	10/29/2024 12:19:30 PM	Peak Integrated by Software
VSTDCCC050	VX043581.D	1,2,3-Trichloropropane	SAM	10/29/2024 8:57:42 AM	MMDadoda	10/29/2024 12:19:26 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX102824	Instrument	MSVOA_x

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:	VX110724	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX043726.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:53 PM	Peak Integrated by Software
VSTDCCC050	VX043726.D	Tert butyl alcohol	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:53 PM	Peak Integrated by Software
VX1107WBS01	VX043729.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:52 PM	Peak Integrated by Software
VX1107WBS01	VX043729.D	Tert butyl alcohol	MMDadoda	11/8/2024 2:39:14 PM	SAM	11/8/2024 2:41:52 PM	Peak Integrated by Software
VX1107WBSD01	VX043730.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:04 PM	SAM	11/8/2024 2:41:47 PM	Peak Integrated by Software
VX1107WBSD01	VX043730.D	Tert butyl alcohol	MMDadoda	11/8/2024 2:39:04 PM	SAM	11/8/2024 2:41:47 PM	Peak Integrated by Software
VSTDCCC050	VX043748.D	1,2,3-Trichloropropane	MMDadoda	11/8/2024 2:39:13 PM	SAM	11/8/2024 2:41:28 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043555.D	28 Oct 2024 10:09	JC/MD	Ok
2	VSTDICC001	VX043556.D	28 Oct 2024 10:59	JC/MD	Ok,M
3	VSTDICC005	VX043557.D	28 Oct 2024 11:22	JC/MD	Ok,M
4	VSTDICC020	VX043558.D	28 Oct 2024 11:45	JC/MD	Ok,M
5	VSTDICCC050	VX043559.D	28 Oct 2024 12:08	JC/MD	Ok,M
6	VSTDICC100	VX043560.D	28 Oct 2024 12:31	JC/MD	Ok,M
7	VSTDICC150	VX043561.D	28 Oct 2024 12:54	JC/MD	Ok,M
8	VIBLK	VX043562.D	28 Oct 2024 14:04	JC/MD	Ok
9	VSTDICV050	VX043563.D	28 Oct 2024 14:27	JC/MD	Ok,M
10	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	JC/MD	Not Ok
11	VX1028WBL01	VX043565.D	28 Oct 2024 15:52	JC/MD	Ok
12	VX1028WBS01	VX043566.D	28 Oct 2024 16:28	JC/MD	Ok,M
13	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51	JC/MD	Ok,M
14	PB164394TB	VX043568.D	28 Oct 2024 17:14	JC/MD	Ok
15	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	JC/MD	Ok
16	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	JC/MD	Ok
17	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	JC/MD	Ok
18	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	JC/MD	Ok
19	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	JC/MD	Ok
20	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	JC/MD	Ok
21	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	JC/MD	Ok

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM				
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	JC/MD	Ok
23	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	JC/MD	Ok
24	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	JC/MD	Ok
25	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	JC/MD	Ok
26	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	JC/MD	Ok
27	VSTDCCC050	VX043581.D	28 Oct 2024 22:15	JC/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM		
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131334
Initial Calibration Stds	
CCC	VP131337,VP131338
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX043725.D	07 Nov 2024 10:18	JC/MD	Ok
2	VSTDCCC050	VX043726.D	07 Nov 2024 10:46	JC/MD	Ok,M
3	VX1107MBL01	VX043727.D	07 Nov 2024 11:29	JC/MD	Ok
4	VX1107WBL01	VX043728.D	07 Nov 2024 11:53	JC/MD	Ok
5	VX1107WBS01	VX043729.D	07 Nov 2024 12:19	JC/MD	Ok,M
6	VX1107WBSD01	VX043730.D	07 Nov 2024 12:42	JC/MD	Ok,M
7	VIBLK	VX043731.D	07 Nov 2024 13:10	JC/MD	Ok
8	PB164695TB	VX043732.D	07 Nov 2024 13:33	JC/MD	ReRun
9	P4718-03	VX043733.D	07 Nov 2024 13:56	JC/MD	Ok
10	P4719-03	VX043734.D	07 Nov 2024 14:19	JC/MD	ReRun
11	P4720-05	VX043735.D	07 Nov 2024 14:43	JC/MD	ReRun
12	P4722-02	VX043736.D	07 Nov 2024 15:06	JC/MD	ReRun
13	P4722-07	VX043737.D	07 Nov 2024 15:29	JC/MD	ReRun
14	P4722-12	VX043738.D	07 Nov 2024 15:52	JC/MD	ReRun
15	P4722-16	VX043739.D	07 Nov 2024 16:16	JC/MD	ReRun
16	P4722-18	VX043740.D	07 Nov 2024 16:39	JC/MD	ReRun
17	P4722-20	VX043741.D	07 Nov 2024 17:02	JC/MD	ReRun
18	P4732-05	VX043742.D	07 Nov 2024 17:25	JC/MD	ReRun
19	P4738-02	VX043743.D	07 Nov 2024 17:49	JC/MD	ReRun
20	P4739-04	VX043744.D	07 Nov 2024 18:12	JC/MD	ReRun
21	P4739-08	VX043745.D	07 Nov 2024 18:35	JC/MD	ReRun

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM				
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M		

STD. NAME	STD REF.#
Tune/Reschk	VP131334
Initial Calibration Stds	
CCC	VP131337,VP131338
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4739-12	VX043746.D	07 Nov 2024 18:58	JC/MD	ReRun
23	P4739-16	VX043747.D	07 Nov 2024 19:21	JC/MD	Ok
24	VSTDCCC050	VX043748.D	07 Nov 2024 19:45	JC/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX043555.D	28 Oct 2024 10:09		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX043556.D	28 Oct 2024 10:59	Method pass	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX043557.D	28 Oct 2024 11:22	8260D	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX043558.D	28 Oct 2024 11:45		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX043559.D	28 Oct 2024 12:08		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX043560.D	28 Oct 2024 12:31		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX043561.D	28 Oct 2024 12:54		JC/MD	Ok,M
8	VIBLK	VIBLK	VX043562.D	28 Oct 2024 14:04		JC/MD	Ok
9	VSTDICV050	ICVVX102824	VX043563.D	28 Oct 2024 14:27		JC/MD	Ok,M
10	VX1028MBL01	VX1028MBL01	VX043564.D	28 Oct 2024 15:02	Internal standard fail	JC/MD	Not Ok
11	VX1028WBL01	VX1028WBL01	VX043565.D	28 Oct 2024 15:52		JC/MD	Ok
12	VX1028WBS01	VX1028WBS01	VX043566.D	28 Oct 2024 16:28		JC/MD	Ok,M
13	VX1028WBSD01	VX1028WBSD01	VX043567.D	28 Oct 2024 16:51		JC/MD	Ok,M
14	PB164394TB	PB164394TB	VX043568.D	28 Oct 2024 17:14	pH#5.0 A	JC/MD	Ok
15	PB164394ZHE#01	PB164394ZHE#01	VX043569.D	28 Oct 2024 17:38	pH#5.0 A	JC/MD	Ok
16	PB164394ZHE#02	PB164394ZHE#02	VX043570.D	28 Oct 2024 18:01	pH#5.0 A	JC/MD	Ok
17	PB164394ZHE#03	PB164394ZHE#03	VX043571.D	28 Oct 2024 18:24	pH#5.0 A	JC/MD	Ok
18	PB164394ZHE#04	PB164394ZHE#04	VX043572.D	28 Oct 2024 18:47	pH#5.0 A	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:19:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:34 PM		
SubDirectory	VX102824	HP Acquire Method	MSVOA_X	HP Processing Method	82x102824w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131142
Initial Calibration Stds	VP131143,VP131144,VP131145,VP131147,VP131148,VP131149
CCC	VP131151,VP131152
Internal Standard/PEM	VP128298
ICV/I.BLK	VP131150
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB164394ZHE#05	PB164394ZHE#05	VX043573.D	28 Oct 2024 19:10	pH#5.0 A	JC/MD	Ok
20	PB164394ZHE#06	PB164394ZHE#06	VX043574.D	28 Oct 2024 19:33	pH#5.0 A	JC/MD	Ok
21	PB164394ZHE#07	PB164394ZHE#07	VX043575.D	28 Oct 2024 19:56	pH#5.0 A	JC/MD	Ok
22	PB164394ZHE#08	PB164394ZHE#08	VX043576.D	28 Oct 2024 20:19	pH#5.0 A	JC/MD	Ok
23	PB164394ZHE#09	PB164394ZHE#09	VX043577.D	28 Oct 2024 20:42	pH#5.0 A	JC/MD	Ok
24	PB164394ZHE#10	PB164394ZHE#10	VX043578.D	28 Oct 2024 21:05	pH#5.0 A	JC/MD	Ok
25	PB164394ZHE#11	PB164394ZHE#11	VX043579.D	28 Oct 2024 21:28	pH#5.0 A	JC/MD	Ok
26	PB164394ZHE#12	PB164394ZHE#12	VX043580.D	28 Oct 2024 21:52	pH#5.0 A	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX043581.D	28 Oct 2024 22:15	out of tune time	JC/MD	Not Ok

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM		
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131334
Initial Calibration Stds	
CCC	VP131337,VP131338
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	VX043725.D	07 Nov 2024 10:18		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX043726.D	07 Nov 2024 10:46		JC/MD	Ok,M
3	VX1107MBL01	VX1107MBL01	VX043727.D	07 Nov 2024 11:29		JC/MD	Ok
4	VX1107WBL01	VX1107WBL01	VX043728.D	07 Nov 2024 11:53		JC/MD	Ok
5	VX1107WBS01	VX1107WBS01	VX043729.D	07 Nov 2024 12:19		JC/MD	Ok,M
6	VX1107WBSD01	VX1107WBSD01	VX043730.D	07 Nov 2024 12:42	BSD high for com #40	JC/MD	Ok,M
7	VIBLK	VIBLK	VX043731.D	07 Nov 2024 13:10		JC/MD	Ok
8	PB164695TB	PB164695TB	VX043732.D	07 Nov 2024 13:33	Surrogate fail,pH#5.0 A	JC/MD	ReRun
9	P4718-03	WB-307-SB02	VX043733.D	07 Nov 2024 13:56	,pH#6.0 A	JC/MD	Ok
10	P4719-03	BAYAVE-STOCKPILE	VX043734.D	07 Nov 2024 14:19	Surrogate fail,pH#5.0 A	JC/MD	ReRun
11	P4720-05	JC-701-COMP-01	VX043735.D	07 Nov 2024 14:43	Surrogate fail,pH#5.0 A	JC/MD	ReRun
12	P4722-02	WC-1(3.5)	VX043736.D	07 Nov 2024 15:06	Surrogate fail,pH#7.0 A	JC/MD	ReRun
13	P4722-07	WC-2(4)	VX043737.D	07 Nov 2024 15:29	Surrogate fail,pH#5.0 A	JC/MD	ReRun
14	P4722-12	WC-3(3)	VX043738.D	07 Nov 2024 15:52	Surrogate fail,pH#7.0 A	JC/MD	ReRun
15	P4722-16	WC-1(5.5)	VX043739.D	07 Nov 2024 16:16	Surrogate fail,pH#7.0 A	JC/MD	ReRun
16	P4722-18	WC-2(2)	VX043740.D	07 Nov 2024 16:39	Surrogate fail,pH#7.0 A	JC/MD	ReRun
17	P4722-20	WC-3(5)	VX043741.D	07 Nov 2024 17:02	Surrogate fail,pH#6.0 A	JC/MD	ReRun
18	P4732-05	PPE-Grab	VX043742.D	07 Nov 2024 17:25	Surrogate fail,pH#5.0 A	JC/MD	ReRun

Alliance TECHNICAL GROUP
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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX110724

Review By	Mahesh Dadoda	Review On	11/8/2024 2:39:29 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/8/2024 2:42:03 PM		
SubDirectory	VX110724	HP Acquire Method	MSVOA_X	HP Processing Method	82X102824W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131334
Initial Calibration Stds	
CCC	VP131337,VP131338
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4738-02	72-12018	VX043743.D	07 Nov 2024 17:49	Surrogate fail,pH#5.0 A	JC/MD	ReRun
20	P4739-04	TP-14	VX043744.D	07 Nov 2024 18:12	Surrogate fail,pH#5.0 A	JC/MD	ReRun
21	P4739-08	BP-G2	VX043745.D	07 Nov 2024 18:35	BSD high; Surrogate fail,pH#5.0 A	JC/MD	ReRun
22	P4739-12	BP-B2	VX043746.D	07 Nov 2024 18:58	BSD high; Surrogate fail,pH#5.0 A	JC/MD	ReRun
23	P4739-16	TP-11	VX043747.D	07 Nov 2024 19:21	,pH#7.0 A	JC/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VX043748.D	07 Nov 2024 19:45		JC/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP VOA	8260D			11/07/24	

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TCLP EXTRACTION LOGPAGE

PB164695

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 11/06/2024 **Time :** 16:45

End Prep Date : 11/07/2024 **Time :** 09:35

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 23 °C

TCLP Technician Signature : JP

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
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
40ml VOA Vials	22437	N/A

Extraction Conformance/Non-Conformance Comments:

TUMBLER ZHE-1 / ZHE-2 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	JP TCLP Room	SJ VOC Lab
	Preparation Group	Analysis Group

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TCLP EXTRACTION LOGPAGE

PB164695

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4719-03	BAYAVE-STOCKPILE	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4720-05	JC-701-COMP-01	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-02	WC-1(3.5)	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-07	WC-2(4)	05	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-12	WC-3(3)	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-16	WC-1(5.5)	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-18	WC-2(2)	08	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4722-20	WC-3(5)	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4732-05	PPE-Grab	10	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P4738-02	72-12018	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-04	TP-14	12	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-08	BP-G2	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-12	BP-B2	14	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
P4739-16	TP-11	15	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
PB164695TB	LEB695	16	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-02	WC-1(3.5)	N/A	N/A	N/A	N/A	100	N/A
P4722-07	WC-2(4)	N/A	N/A	N/A	N/A	100	N/A
P4722-12	WC-3(3)	N/A	N/A	N/A	N/A	100	N/A
P4722-16	WC-1(5.5)	N/A	N/A	N/A	N/A	100	N/A
P4722-18	WC-2(2)	N/A	N/A	N/A	N/A	100	N/A
P4722-20	WC-3(5)	N/A	N/A	N/A	N/A	100	N/A
P4732-05	PPE-Grab	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164695TB	LEB695	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe p4719 **WorkList ID :** 185150 **Department :** TCLP Extraction **Date :** 11-06-2024 07:55:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-03	WB-307-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L21	11/04/2024	1311 ZHE
P4719-03	BAYAVE-STOCKPILE	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K21	11/05/2024	1311 ZHE
P4720-05	JC-701-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	K31	11/05/2024	1311 ZHE
P4722-02	WC-1(3.5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-07	WC-2(4)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-12	WC-3(3)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-16	WC-1(5.5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-18	WC-2(2)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4722-20	WC-3(5)	Solid	TCLP ZHE Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311 ZHE
P4732-05	PPE-Grab	Solid	TCLP ZHE Extraction	Cool 4 deg C	FURI01	L11	11/06/2024	1311 ZHE
P4738-02	72-12018	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L23	11/06/2024	1311 ZHE
P4739-04	TP-14	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-08	BP-G2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-12	BP-B2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE
P4739-16	TP-11	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311 ZHE

252 of 1396

Date/Time 11/06/24 16:10

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 11/06/24 16:00

Raw Sample Received by:

Raw Sample Relinquished by:

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

Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-307-SB01**								
P4718-01	WB-307-SB01	SOIL	2-Bromo dodecane	*	190.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	870.000	AB	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Benzophenone	*	380.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	3,700.000	JB	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Dodecane, 2,6,10-trimethyl-	*	550.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	n-Hexadecanoic acid	*	550.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Oleic Acid	*	120.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Pentacosane	*	680.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Pentadecane	*	730.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Pentadecane, 7-methyl-	*	130.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Propane, 1,1-dimethoxy-	*	130.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Sulfurous acid, 2-ethylhexyl tride	*	180.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Tetradecane	*	1,700.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	trans, cis-3-Ethylbicyclo[4.4.0]de	*	100.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Tridecane	*	700.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Trifluoroacetic acid, pentadecyl e	*	240.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Undecane, 3-methyl-	*	150.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	Undecane, 5,5-dimethyl-	*	150.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	unknown8.804	*	160.000	J	0	0	ug/Kg
P4718-01	WB-307-SB01	SOIL	unknown9.034	*	230.000	J	0	0	ug/Kg
			Total Tics :		**11,640.00**				
			Total Concentration:		**11,640.00**				
Client ID :	**WB-307-SB02**								
P4718-02	WB-307-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	790.000	AB	0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Benzophenone	*	360.000	J	0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	3,500.000	JB	0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Heptadecyl heptafluorobutyrate	*	210.000	J	0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	n-Hexadecanoic acid	*	460.000	J	0	0	ug/Kg
P4718-02	WB-307-SB02	SOIL	Propane, 1,1-dimethoxy-	*	120.000	J	0	0	ug/Kg
			Total Tics :		**5,440.00**				
			Total Concentration:		**5,440.00**				
Client ID :	**WB-307-SW**								
P4718-04	WB-307-SW	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	10.500	AB	0	0	ug/L
P4718-04	WB-307-SW	WATER	Acetic acid, butyl ester	*	3.300	J	0	0	ug/L
P4718-04	WB-307-SW	WATER	Benzophenone	*	5.400	J	0	0	ug/L
P4718-04	WB-307-SW	WATER	Butane, 2-methoxy-2-methyl-	*	250.000	JB	0	0	ug/L

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

Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
P4718-04	WB-307-SW	WATER	n-Hexadecanoic acid	* 3.300	J	0	0	ug/L
			Total Tics :	**272.50**				
			Total Concentration:	**272.50**				

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
Sample Wt/Vol:	30.03 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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	UQ	230	420	ug/Kg
108-95-2	Phenol	110	U	110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	220	ug/Kg
95-48-7	2-Methylphenol	100	U	100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	220	ug/Kg
98-86-2	Acetophenone	110	U	110	220	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.6	U	51.6	100	ug/Kg
67-72-1	Hexachloroethane	110	U	110	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	220	ug/Kg
78-59-1	Isophorone	110	U	110	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	96.7	U	96.7	220	ug/Kg
91-20-3	Naphthalene	110	U	110	220	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	220	ug/Kg
105-60-2	Caprolactam	110	U	110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	99.3	U	99.3	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	UQ	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	91.4	U	91.4	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	94.8	U	94.8	220	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	220	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	220	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
Sample Wt/Vol:	30.03 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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	220	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	220	ug/Kg
83-32-9	Acenaphthene	100	U	100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	420	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	420	ug/Kg
132-64-9	Dibenzofuran	110	U	110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	220	ug/Kg
84-66-2	Diethylphthalate	100	U	100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	220	ug/Kg
86-73-7	Fluorene	110	U	110	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	220	ug/Kg
1912-24-9	Atrazine	120	U	120	220	ug/Kg
87-86-5	Pentachlorophenol	99.0	U	99.0	420	ug/Kg
85-01-8	Phenanthrene	110	U	110	220	ug/Kg
120-12-7	Anthracene	110	U	110	220	ug/Kg
86-74-8	Carbazole	100	U	100	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	220	ug/Kg
206-44-0	Fluoranthene	100	U	100	220	ug/Kg
129-00-0	Pyrene	110	U	110	220	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	420	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	220	ug/Kg
218-01-9	Chrysene	100	U	100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
Sample Wt/Vol:	30.03 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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	100	U	100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	95.7	U	95.7	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	135		30 (18) - 130 (112)	90%	SPK: 150
13127-88-3	Phenol-d6	134		30 (15) - 130 (107)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.3		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.9		30 (20) - 130 (109)	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	151		30 (10) - 130 (116)	101%	SPK: 150
1718-51-0	Terphenyl-d14	80.7		30 (10) - 130 (105)	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.875			
1146-65-2	Naphthalene-d8	477000	8.157			
15067-26-2	Acenaphthene-d10	268000	9.916			
1517-22-2	Phenanthrene-d10	494000	11.404			
1719-03-5	Chrysene-d12	285000	14.051			
1520-96-3	Perylene-d12	293000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3700	JB		2.16	ug/Kg
004744-10-9	Propane, 1,1-dimethoxy-	130	J		2.27	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	870	AB		5.10	ug/Kg
066660-43-3	trans, cis-3-Ethylbicyclo[4.4.0]de	100	J		8.45	ug/Kg
1000309-19-6	Sulfurous acid, 2-ethylhexyl tride	180	J		8.57	ug/Kg
000629-50-5	Tridecane	700	J		8.74	ug/Kg
	unknown8.804	160	J		8.80	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78
Sample Wt/Vol:	30.03 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
BF140270.D	1	11/06/24 09:45	11/07/24 13:07	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
017312-73-1	Undecane, 5,5-dimethyl-	150	J		8.84	ug/Kg
	unknown9.034	230	J		9.03	ug/Kg
013187-99-0	2-Bromo dodecane	190	J		9.11	ug/Kg
001002-43-3	Undecane, 3-methyl-	150	J		9.15	ug/Kg
003891-98-3	Dodecane, 2,6,10-trimethyl-	550	J		9.18	ug/Kg
000629-59-4	Tetradecane	1700	J		9.31	ug/Kg
000629-99-2	Pentacosane	680	J		9.63	ug/Kg
000629-62-9	Pentadecane	730	J		9.84	ug/Kg
006165-40-8	Pentadecane, 7-methyl-	130	J		10.3	ug/Kg
000119-61-9	Benzophenone	380	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	550	J		11.9	ug/Kg
000112-80-1	Oleic Acid	120	J		12.6	ug/Kg
959010-23-2	Trifluoroacetic acid, pentadecyl e	240	J		13.9	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
Sample Wt/Vol:	30.08 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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	UQ	230	420	ug/Kg
108-95-2	Phenol	110	U	110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	110	U	110	220	ug/Kg
95-57-8	2-Chlorophenol	110	U	110	220	ug/Kg
95-48-7	2-Methylphenol	100	U	100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	120	U	120	220	ug/Kg
98-86-2	Acetophenone	110	U	110	220	ug/Kg
65794-96-9	3+4-Methylphenols	100	U	100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	51.8	U	51.8	100	ug/Kg
67-72-1	Hexachloroethane	110	U	110	220	ug/Kg
98-95-3	Nitrobenzene	120	U	120	220	ug/Kg
78-59-1	Isophorone	110	U	110	220	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	97.0	U	97.0	220	ug/Kg
91-20-3	Naphthalene	110	U	110	220	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	220	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	220	ug/Kg
105-60-2	Caprolactam	110	U	110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	99.6	U	99.6	220	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	200	UQ	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	91.8	U	91.8	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	95.1	U	95.1	220	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	220	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	220	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	220	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
Sample Wt/Vol:	30.08 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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	220	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	220	ug/Kg
83-32-9	Acenaphthene	100	U	100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	420	ug/Kg
100-02-7	4-Nitrophenol	150	U	150	420	ug/Kg
132-64-9	Dibenzofuran	110	U	110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	220	ug/Kg
84-66-2	Diethylphthalate	100	U	100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	220	ug/Kg
86-73-7	Fluorene	110	U	110	220	ug/Kg
100-01-6	4-Nitroaniline	140	U	140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	100	U	100	220	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	220	ug/Kg
1912-24-9	Atrazine	120	U	120	220	ug/Kg
87-86-5	Pentachlorophenol	99.3	U	99.3	420	ug/Kg
85-01-8	Phenanthrene	110	U	110	220	ug/Kg
120-12-7	Anthracene	110	U	110	220	ug/Kg
86-74-8	Carbazole	100	U	100	220	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	220	ug/Kg
206-44-0	Fluoranthene	110	U	110	220	ug/Kg
129-00-0	Pyrene	110	U	110	220	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	130	U	130	420	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	220	ug/Kg
218-01-9	Chrysene	100	U	100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	120	U	120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
Sample Wt/Vol:	30.08 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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	220	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	100	U	100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	100	U	100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	220	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	96.0	U	96.0	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.5		30 (18) - 130 (107)	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.9		30 (20) - 130 (109)	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		30 (10) - 130 (116)	89%	SPK: 150
1718-51-0	Terphenyl-d14	81.5		30 (10) - 130 (105)	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	124000	6.875			
1146-65-2	Naphthalene-d8	467000	8.157			
15067-26-2	Acenaphthene-d10	269000	9.91			
1517-22-2	Phenanthrene-d10	500000	11.404			
1719-03-5	Chrysene-d12	297000	14.051			
1520-96-3	Perylene-d12	276000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3500	JB		2.15	ug/Kg
004744-10-9	Propane, 1,1-dimethoxy-	120	J		2.26	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	790	AB		5.09	ug/Kg
000119-61-9	Benzophenone	360	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	460	J		11.9	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	210	J		13.9	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
Sample Wt/Vol:	30.08 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
BF140271.D	1	11/06/24 09:45	11/07/24 13:33	PB164702

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.40	UQ	4.40	11.1	ug/L
108-95-2	Phenol	1.00	U	1.00	5.60	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.30	U	1.30	5.60	ug/L
95-57-8	2-Chlorophenol	0.79	U	0.79	5.60	ug/L
95-48-7	2-Methylphenol	1.30	U	1.30	5.60	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.50	U	1.50	5.60	ug/L
98-86-2	Acetophenone	1.20	U	1.20	5.60	ug/L
65794-96-9	3+4-Methylphenols	1.30	U	1.30	11.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.60	U	1.60	2.80	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.60	ug/L
98-95-3	Nitrobenzene	1.40	U	1.40	5.60	ug/L
78-59-1	Isophorone	1.30	U	1.30	5.60	ug/L
88-75-5	2-Nitrophenol	2.20	U	2.20	5.60	ug/L
105-67-9	2,4-Dimethylphenol	1.70	U	1.70	5.60	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.60	ug/L
120-83-2	2,4-Dichlorophenol	0.98	U	0.98	5.60	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.60	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.60	ug/L
87-68-3	Hexachlorobutadiene	1.40	U	1.40	5.60	ug/L
105-60-2	Caprolactam	1.80	U	1.80	11.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.93	U	0.93	5.60	ug/L
91-57-6	2-Methylnaphthalene	1.30	U	1.30	5.60	ug/L
77-47-4	Hexachlorocyclopentadiene	5.60	UQ	5.60	11.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.99	U	0.99	5.60	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.60	ug/L
92-52-4	1,1-Biphenyl	1.00	U	1.00	5.60	ug/L
91-58-7	2-Chloronaphthalene	1.10	U	1.10	5.60	ug/L
88-74-4	2-Nitroaniline	1.60	U	1.60	5.60	ug/L
131-11-3	Dimethylphthalate	1.00	U	1.00	5.60	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.20	U	1.20	5.60	ug/L
606-20-2	2,6-Dinitrotoluene	1.40	U	1.40	5.60	ug/L
99-09-2	3-Nitroaniline	1.50	UQ	1.50	5.60	ug/L
83-32-9	Acenaphthene	0.90	U	0.90	5.60	ug/L
51-28-5	2,4-Dinitrophenol	7.10	U	7.10	11.1	ug/L
100-02-7	4-Nitrophenol	2.20	U	2.20	11.1	ug/L
132-64-9	Dibenzofuran	1.00	U	1.00	5.60	ug/L
121-14-2	2,4-Dinitrotoluene	1.70	U	1.70	5.60	ug/L
84-66-2	Diethylphthalate	1.20	U	1.20	5.60	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.10	U	1.10	5.60	ug/L
86-73-7	Fluorene	1.10	U	1.10	5.60	ug/L
100-01-6	4-Nitroaniline	2.30	U	2.30	5.60	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.40	U	3.40	11.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.99	U	0.99	5.60	ug/L
101-55-3	4-Bromophenyl-phenylether	1.10	U	1.10	5.60	ug/L
118-74-1	Hexachlorobenzene	1.30	U	1.30	5.60	ug/L
1912-24-9	Atrazine	1.40	U	1.40	5.60	ug/L
87-86-5	Pentachlorophenol	2.10	U	2.10	11.1	ug/L
85-01-8	Phenanthrene	0.99	U	0.99	5.60	ug/L
120-12-7	Anthracene	1.20	U	1.20	5.60	ug/L
86-74-8	Carbazole	1.30	U	1.30	5.60	ug/L
84-74-2	Di-n-butylphthalate	1.60	U	1.60	5.60	ug/L
206-44-0	Fluoranthene	1.40	U	1.40	5.60	ug/L
129-00-0	Pyrene	1.20	U	1.20	5.60	ug/L
85-68-7	Butylbenzylphthalate	2.30	U	2.30	5.60	ug/L
91-94-1	3,3-Dichlorobenzidine	1.40	UQ	1.40	11.1	ug/L
56-55-3	Benzo(a)anthracene	1.00	U	1.00	5.60	ug/L
218-01-9	Chrysene	0.96	U	0.96	5.60	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.10	U	2.10	5.60	ug/L
117-84-0	Di-n-octyl phthalate	2.80	U	2.80	11.1	ug/L
205-99-2	Benzo(b)fluoranthene	1.30	U	1.30	5.60	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.30	U	1.30	5.60	ug/L
50-32-8	Benzo(a)pyrene	1.90	U	1.90	5.60	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.60	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.30	U	1.30	5.60	ug/L
191-24-2	Benzo(g,h,i)perylene	1.30	U	1.30	5.60	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.20	U	1.20	5.60	ug/L
123-91-1	1,4-Dioxane	1.40	U	1.40	5.60	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.88	U	0.88	5.60	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	35.2		15 (10) - 110 (139)	23%	SPK: 150
13127-88-3	Phenol-d6	30.7		15 (10) - 110 (134)	20%	SPK: 150
4165-60-0	Nitrobenzene-d5	35.6		30 (49) - 130 (133)	36%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.4		30 (52) - 130 (132)	36%	SPK: 100
118-79-6	2,4,6-Tribromophenol	48.6		15 (44) - 110 (137)	32%	SPK: 150
1718-51-0	Terphenyl-d14	39.4		30 (48) - 130 (125)	39%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137000	6.869			
1146-65-2	Naphthalene-d8	514000	8.151			
15067-26-2	Acenaphthene-d10	281000	9.904			
1517-22-2	Phenanthrene-d10	486000	11.392			
1719-03-5	Chrysene-d12	241000	14.045			
1520-96-3	Perylene-d12	265000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	250	JB		2.16	ug/L
000123-86-4	Acetic acid, butyl ester	3.30	J		4.74	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	10.5	AB		5.09	ug/L
000119-61-9	Benzophenone	5.40	J		10.6	ug/L
000057-10-3	n-Hexadecanoic acid	3.30	J		11.9	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	450 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140363.D	1	11/09/24 08:38	11/14/24 15:39	PB164846

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

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Surrogate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4718-01	WB-307-SB01	2-Fluorophenol	150	135	90		30 (18)	130 (112)
		Phenol-d6	150	134	90		30 (15)	130 (107)
		Nitrobenzene-d5	100	90.3	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	82.9	83		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	151	101		30 (10)	130 (116)
		Terphenyl-d14	100	80.7	81		30 (10)	130 (105)
P4718-02	WB-307-SB02	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	119	79		30 (15)	130 (107)
		Nitrobenzene-d5	100	78.5	78		30 (18)	130 (107)
		2-Fluorobiphenyl	100	78.9	79		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	134	89		30 (10)	130 (116)
		Terphenyl-d14	100	81.5	81		30 (10)	130 (105)
P4718-02MS	WB-307-SB02MS	2-Fluorophenol	150	108	72		30 (18)	130 (112)
		Phenol-d6	150	109	73		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.6	72		30 (18)	130 (107)
		2-Fluorobiphenyl	100	71.9	72		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	121	81		30 (10)	130 (116)
		Terphenyl-d14	100	80.3	80		30 (10)	130 (105)
P4718-02MSD	WB-307-SB02MSD	2-Fluorophenol	150	106	70		30 (18)	130 (112)
		Phenol-d6	150	106	71		30 (15)	130 (107)
		Nitrobenzene-d5	100	69.7	70		30 (18)	130 (107)
		2-Fluorobiphenyl	100	71.3	71		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	121	81		30 (10)	130 (116)
		Terphenyl-d14	100	76.8	77		30 (10)	130 (105)
PB164702BL	PB164702BL	2-Fluorophenol	150	137	91		30 (18)	130 (112)
		Phenol-d6	150	134	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	91.0	91		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.1	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	152	101		30 (10)	130 (116)
		Terphenyl-d14	100	101	101		30 (10)	130 (105)
PB164702BS	PB164702BS	2-Fluorophenol	150	125	83		30 (18)	130 (112)
		Phenol-d6	150	122	82		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.5	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.4	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	149	99		30 (10)	130 (116)
		Terphenyl-d14	100	97.3	97		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4718-04	WB-307-SW	2-Fluorophenol	150	35.2	23		15 (10)	110 (139)
		Phenol-d6	150	30.7	20		15 (10)	110 (134)
		Nitrobenzene-d5	100	35.6	36		30 (49)	130 (133)
		2-Fluorobiphenyl	100	36.4	36		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	48.6	32		15 (44)	110 (137)
		Terphenyl-d14	100	39.4	39		30 (48)	130 (125)
PB164846BL	PB164846BL	2-Fluorophenol	150	135	90		15 (10)	110 (139)
		Phenol-d6	150	130	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.4	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.6	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	135	90		15 (44)	110 (137)
		Terphenyl-d14	100	85.1	85		30 (48)	130 (125)
PB164846BS	PB164846BS	2-Fluorophenol	150	119	79		15 (10)	110 (139)
		Phenol-d6	150	116	77		15 (10)	110 (134)
		Nitrobenzene-d5	100	81.8	82		30 (49)	130 (133)
		2-Fluorobiphenyl	100	83.2	83		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	129	86		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB164846BSD	PB164846BSD	2-Fluorophenol	150	126	84		15 (10)	110 (139)
		Phenol-d6	150	121	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	86.0	86		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.5	88		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	132	88		15 (44)	110 (137)
		Terphenyl-d14	100	99.7	100		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

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: P4718-02MS		**Client Sample ID: WB-307-SB02MS**						**DataFile: BF140272.D**			
Benzaldehyde	2100	0	440	ug/Kg	21				20 (10)	160 (86)	
Phenol	2100	0	2300	ug/Kg	110				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2100	0	2200	ug/Kg	105				70 (54)	130 (125)	
2-Chlorophenol	2100	0	2300	ug/Kg	110				70 (79)	130 (107)	
2-Methylphenol	2100	0	2300	ug/Kg	110				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2100	0	2200	ug/Kg	105				70 (65)	130 (110)	
Acetophenone	2100	0	2100	ug/Kg	100				70 (75)	130 (111)	
3+4-Methylphenols	2100	0	2200	ug/Kg	105				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2100	0	2200	ug/Kg	105				70 (59)	130 (119)	
Hexachloroethane	2100	0	2100	ug/Kg	100				20 (65)	160 (117)	
Nitrobenzene	2100	0	2000	ug/Kg	95				70 (70)	130 (119)	
Isophorone	2100	0	2200	ug/Kg	105				70 (76)	130 (122)	
2-Nitrophenol	2100	0	2400	ug/Kg	114				70 (54)	130 (145)	
2,4-Dimethylphenol	2100	0	2700	ug/Kg	129				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2100	0	2100	ug/Kg	100				70 (68)	130 (112)	
2,4-Dichlorophenol	2100	0	2200	ug/Kg	105				70 (72)	130 (118)	
Naphthalene	2100	0	2100	ug/Kg	100				70 (72)	130 (110)	
4-Chloroaniline	2100	0	1500	ug/Kg	71				70 (10)	130 (91)	
Hexachlorobutadiene	2100	0	2100	ug/Kg	100				70 (66)	130 (114)	
Caprolactam	2100	0	2400	ug/Kg	114				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2100	0	2200	ug/Kg	105				70 (57)	130 (132)	
2-Methylnaphthalene	2100	0	2200	ug/Kg	105				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4300	0	8500	ug/Kg	198	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	2100	0	2300	ug/Kg	110				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2100	0	2300	ug/Kg	110				70 (72)	130 (117)	
1,1-Biphenyl	2100	0	2200	ug/Kg	105				70 (75)	130 (113)	
2-Chloronaphthalene	2100	0	2100	ug/Kg	100				70 (67)	130 (118)	
2-Nitroaniline	2100	0	2300	ug/Kg	110				70 (69)	130 (127)	
Dimethylphthalate	2100	0	2300	ug/Kg	110				70 (70)	130 (113)	
Acenaphthylene	2100	0	2400	ug/Kg	114				70 (79)	130 (118)	
2,6-Dinitrotoluene	2100	0	2200	ug/Kg	105				70 (70)	130 (125)	
3-Nitroaniline	2100	0	1800	ug/Kg	86				70 (30)	130 (99)	
Acenaphthene	2100	0	2500	ug/Kg	119				70 (70)	130 (121)	
2,4-Dinitrophenol	4300	0	4900	ug/Kg	114				20 (10)	160 (155)	
4-Nitrophenol	4300	0	5300	ug/Kg	123				20 (45)	160 (133)	
Dibenzofuran	2100	0	2300	ug/Kg	110				70 (72)	130 (110)	
2,4-Dinitrotoluene	2100	0	2400	ug/Kg	114				70 (55)	130 (128)	
Diethylphthalate	2100	0	2300	ug/Kg	110				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2100	0	2200	ug/Kg	105				70 (71)	130 (108)	
Fluorene	2100	0	2200	ug/Kg	105				70 (68)	130 (116)	
4-Nitroaniline	2100	0	2400	ug/Kg	114				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2100	0	2600	ug/Kg	124				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2100	0	2200	ug/Kg	105				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2100	0	2200	ug/Kg	105				70 (65)	130 (121)	
Hexachlorobenzene	2100	0	2200	ug/Kg	105				70 (67)	130 (118)	
Atrazine	2100	0	3000	ug/Kg	143	*			70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

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	4300	0	4800	ug/Kg	112				20 (47)	160 (128)	
Phenanthrene	2100	0	2200	ug/Kg	105				70 (52)	130 (128)	
Anthracene	2100	0	2300	ug/Kg	110				70 (62)	130 (124)	
Carbazole	2100	0	2200	ug/Kg	105				70 (59)	130 (119)	
Di-n-butylphthalate	2100	0	2300	ug/Kg	110				70 (69)	130 (118)	
Fluoranthene	2100	0	2100	ug/Kg	100				70 (44)	130 (125)	
Pyrene	2100	0	2400	ug/Kg	114				70 (26)	130 (142)	
Butylbenzylphthalate	2100	0	2500	ug/Kg	119				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2100	0	2000	ug/Kg	95				70 (33)	130 (116)	
Benzo(a)anthracene	2100	0	2300	ug/Kg	110				70 (71)	130 (114)	
Chrysene	2100	0	2300	ug/Kg	110				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2100	0	2300	ug/Kg	110				70 (42)	130 (169)	
Di-n-octyl phthalate	2100	0	2300	ug/Kg	110				70 (23)	130 (175)	
Benzo(b)fluoranthene	2100	0	2400	ug/Kg	114				70 (67)	130 (121)	
Benzo(k)fluoranthene	2100	0	2100	ug/Kg	100				70 (57)	130 (134)	
Benzo(a)pyrene	2100	0	2500	ug/Kg	119				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2100	0	2100	ug/Kg	100				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2100	0	2100	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2100	0	1800	ug/Kg	86				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2100	0	2200	ug/Kg	105				70 (69)	130 (124)	
1,4-Dioxane	2100	0	2000	ug/Kg	95				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2100	0	2500	ug/Kg	119				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

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: P4718-02MSD		**Client Sample ID: WB-307-SB02MSD**						**DataFile: BF140273.D**			
Benzaldehyde	2100	0	440	ug/Kg	21		0		20 (10)	160 (86)	30 (20)
Phenol	2100	0	2200	ug/Kg	105		5		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2100	0	2200	ug/Kg	105		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2100	0	2300	ug/Kg	110		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	2100	0	2200	ug/Kg	105		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2100	0	2100	ug/Kg	100		5		70 (65)	130 (110)	30 (20)
Acetophenone	2100	0	2100	ug/Kg	100		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2100	0	2200	ug/Kg	105		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2100	0	2100	ug/Kg	100		5		70 (59)	130 (119)	30 (20)
Hexachloroethane	2100	0	2100	ug/Kg	100		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	2100	0	2000	ug/Kg	95		0		70 (70)	130 (119)	30 (20)
Isophorone	2100	0	2100	ug/Kg	100		5		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2100	0	2300	ug/Kg	110		4		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2100	0	2600	ug/Kg	124		4		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2100	0	2100	ug/Kg	100		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2100	0	2200	ug/Kg	105		0		70 (72)	130 (118)	30 (20)
Naphthalene	2100	0	2100	ug/Kg	100		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2100	0	1500	ug/Kg	71		0		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2100	0	2000	ug/Kg	95		5		70 (66)	130 (114)	30 (20)
Caprolactam	2100	0	2400	ug/Kg	114		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2100	0	2200	ug/Kg	105		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2100	0	2200	ug/Kg	105		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4300	0	8100	ug/Kg	188	*	5		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2100	0	2200	ug/Kg	105		5		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2100	0	2200	ug/Kg	105		5		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2100	0	2100	ug/Kg	100		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2100	0	2100	ug/Kg	100		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2100	0	2200	ug/Kg	105		5		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2100	0	2200	ug/Kg	105		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	2100	0	2300	ug/Kg	110		4		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2100	0	2200	ug/Kg	105		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2100	0	1700	ug/Kg	81		6		70 (30)	130 (99)	30 (20)
Acenaphthene	2100	0	2500	ug/Kg	119		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4300	0	5000	ug/Kg	116		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4300	0	5300	ug/Kg	123		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	2100	0	2200	ug/Kg	105		5		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2100	0	2300	ug/Kg	110		4		70 (55)	130 (128)	30 (20)
Diethylphthalate	2100	0	2200	ug/Kg	105		5		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2100	0	2100	ug/Kg	100		5		70 (71)	130 (108)	30 (20)
Fluorene	2100	0	2200	ug/Kg	105		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2100	0	2300	ug/Kg	110		4		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2100	0	2500	ug/Kg	119		4		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2100	0	2200	ug/Kg	105		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2100	0	2200	ug/Kg	105		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2100	0	2100	ug/Kg	100		5		70 (67)	130 (118)	30 (20)
Atrazine	2100	0	2900	ug/Kg	138	*	4		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

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	4300	0	4700	ug/Kg	109		3		20 (47)	160 (128)	30 (20)
Phenanthrene	2100	0	2200	ug/Kg	105		0		70 (52)	130 (128)	30 (20)
Anthracene	2100	0	2300	ug/Kg	110		0		70 (62)	130 (124)	30 (20)
Carbazole	2100	0	2200	ug/Kg	105		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2100	0	2300	ug/Kg	110		0		70 (69)	130 (118)	30 (20)
Fluoranthene	2100	0	2100	ug/Kg	100		0		70 (44)	130 (125)	30 (20)
Pyrene	2100	0	2300	ug/Kg	110		4		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2100	0	2400	ug/Kg	114		4		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2100	0	1900	ug/Kg	90		5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2100	0	2200	ug/Kg	105		5		70 (71)	130 (114)	30 (20)
Chrysene	2100	0	2300	ug/Kg	110		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2100	0	2200	ug/Kg	105		5		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2100	0	2200	ug/Kg	105		5		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2100	0	2100	ug/Kg	100		13		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2100	0	2300	ug/Kg	110		10		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2100	0	2400	ug/Kg	114		4		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2100	0	2100	ug/Kg	100		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2100	0	2100	ug/Kg	100		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2100	0	1800	ug/Kg	86		0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2100	0	2100	ug/Kg	100		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2100	0	2000	ug/Kg	95		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2100	0	2400	ug/Kg	114		4		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140263.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164702BS	Benzaldehyde	1700	330	ug/Kg	19		*		20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	2-Chlorophenol	1700	1600	ug/Kg	94				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				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	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1700	ug/Kg	100				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				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	730	ug/Kg	43		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1400	ug/Kg	82				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	6600	ug/Kg	200		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				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	1600	ug/Kg	94				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	960	ug/Kg	56		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3100	ug/Kg	94				20 (37)	160 (128)	
	4-Nitrophenol	3300	3500	ug/Kg	106				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				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	1700	ug/Kg	100				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140263.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164702BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	2100	ug/Kg	124				70 (47)	130 (152)	
	Pentachlorophenol	3300	3300	ug/Kg	100				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	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				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	1800	ug/Kg	106				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1200	ug/Kg	71				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140446.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164846BS	Benzaldehyde	50	0	ug/L	0		*		20 (10)	160 (162)	
	Phenol	50	40.0	ug/L	80				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	42.6	ug/L	85				70 (62)	130 (103)	
	2-Chlorophenol	50	43.4	ug/L	87				70 (70)	130 (117)	
	2-Methylphenol	50	41.8	ug/L	84				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	41.0	ug/L	82				70 (65)	130 (100)	
	Acetophenone	50	40.3	ug/L	81				70 (60)	130 (104)	
	3+4-Methylphenols	50	40.3	ug/L	81				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	40.4	ug/L	81				70 (57)	130 (107)	
	Hexachloroethane	50	41.9	ug/L	84				20 (76)	160 (118)	
	Nitrobenzene	50	39.3	ug/L	79				70 (58)	130 (106)	
	Isophorone	50	41.1	ug/L	82				70 (61)	130 (102)	
	2-Nitrophenol	50	42.9	ug/L	86				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	50.3	ug/L	101				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.0	ug/L	82				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	42.2	ug/L	84				70 (66)	130 (115)	
	Naphthalene	50	40.5	ug/L	81				70 (64)	130 (107)	
	4-Chloroaniline	50	32.4	ug/L	65		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	40.4	ug/L	81				70 (69)	130 (101)	
	Caprolactam	50	41.6	ug/L	83				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	41.8	ug/L	84				70 (65)	130 (114)	
	2-Methylnaphthalene	50	41.1	ug/L	82				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	170	ug/L	170		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	42.2	ug/L	84				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	41.3	ug/L	83				70 (70)	130 (106)	
	1,1-Biphenyl	50	41.5	ug/L	83				70 (72)	130 (98)	
	2-Chloronaphthalene	50	40.8	ug/L	82				70 (59)	130 (106)	
	2-Nitroaniline	50	42.8	ug/L	86				70 (73)	130 (114)	
	Dimethylphthalate	50	43.1	ug/L	86				70 (64)	130 (103)	
	Acenaphthylene	50	44.4	ug/L	89				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	41.5	ug/L	83				70 (64)	130 (110)	
	3-Nitroaniline	50	33.3	ug/L	67		*		70 (28)	130 (100)	
	Acenaphthene	50	47.2	ug/L	94				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	90.8	ug/L	91				20 (36)	160 (166)	
	4-Nitrophenol	100	82.6	ug/L	83				20 (45)	160 (147)	
	Dibenzofuran	50	42.1	ug/L	84				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	42.2	ug/L	84				70 (60)	130 (115)	
	Diethylphthalate	50	42.3	ug/L	85				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	41.5	ug/L	83				70 (61)	130 (104)	
	Fluorene	50	41.6	ug/L	83				70 (64)	130 (107)	
	4-Nitroaniline	50	40.6	ug/L	81				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.8	ug/L	88				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.4	ug/L	87				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140446.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164846BS	Hexachlorobenzene	50	43.7	ug/L	87				70 (73)	130 (106)	
	Atrazine	50	36.8	ug/L	74				70 (76)	130 (120)	
	Pentachlorophenol	100	84.8	ug/L	85				20 (47)	160 (114)	
	Phenanthrene	50	43.3	ug/L	87				70 (62)	130 (109)	
	Anthracene	50	45.3	ug/L	91				70 (65)	130 (110)	
	Carbazole	50	42.1	ug/L	84				70 (62)	130 (106)	
	Di-n-butylphthalate	50	44.0	ug/L	88				70 (64)	130 (106)	
	Fluoranthene	50	41.3	ug/L	83				70 (64)	130 (110)	
	Pyrene	50	49.1	ug/L	98				70 (71)	130 (103)	
	Butylbenzylphthalate	50	50.2	ug/L	100				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	38.4	ug/L	77				70 (43)	130 (108)	
	Benzo(a)anthracene	50	45.2	ug/L	90				70 (62)	130 (107)	
	Chrysene	50	44.6	ug/L	89				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	48.6	ug/L	97				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	45.1	ug/L	90				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	40.7	ug/L	81				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	41.3	ug/L	83				70 (77)	130 (105)	
	Benzo(a)pyrene	50	47.0	ug/L	94				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	50.0	ug/L	100				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	49.5	ug/L	99				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	44.8	ug/L	90				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	42.0	ug/L	84				70 (72)	130 (101)	
	1,4-Dioxane	50	34.4	ug/L	69				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	45.4	ug/L	91				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140447.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164846BSD	Benzaldehyde	50	7.20	ug/L	14	200	*	*	20 (10)	160 (162)	20 (20)
	Phenol	50	43.3	ug/L	87	8			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	45.8	ug/L	92	7			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	46.9	ug/L	94	8			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	45.5	ug/L	91	8			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	44.4	ug/L	89	8			70 (65)	130 (100)	20 (20)
	Acetophenone	50	43.9	ug/L	88	9			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.0	ug/L	90	11			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	44.3	ug/L	89	9			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	44.8	ug/L	90	7			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	42.9	ug/L	86	9			70 (58)	130 (106)	20 (20)
	Isophorone	50	44.8	ug/L	90	9			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	46.9	ug/L	94	9			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	54.8	ug/L	110	9			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	45.0	ug/L	90	9			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	45.5	ug/L	91	8			70 (66)	130 (115)	20 (20)
	Naphthalene	50	43.9	ug/L	88	8			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	22.3	ug/L	45	37	*	*	70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	43.7	ug/L	87	8			70 (69)	130 (101)	20 (20)
	Caprolactam	50	43.8	ug/L	88	5			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	44.8	ug/L	90	7			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	44.8	ug/L	90	9			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	180	ug/L	180	6	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	45.8	ug/L	92	8			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	44.3	ug/L	89	7			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	45.0	ug/L	90	8			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	44.1	ug/L	88	8			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	45.2	ug/L	90	5			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	46.0	ug/L	92	7			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	48.2	ug/L	96	8			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	43.2	ug/L	86	4			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	28.4	ug/L	57	16	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	51.0	ug/L	102	8			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	97.0	ug/L	97	7			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	87.7	ug/L	88	6			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	45.4	ug/L	91	8			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	45.6	ug/L	91	8			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	45.3	ug/L	91	7			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.6	ug/L	89	7			70 (61)	130 (104)	20 (20)
	Fluorene	50	44.4	ug/L	89	7			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	43.8	ug/L	88	8			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	50.4	ug/L	101	4			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	45.9	ug/L	92	5			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	45.1	ug/L	90	4			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140447.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164846BSD	Hexachlorobenzene	50	45.4	ug/L	91	4			70 (73)	130 (106)	20 (20)
	Atrazine	50	51.5	ug/L	103	33		*	70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	87.7	ug/L	88	3			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	45.9	ug/L	92	6			70 (62)	130 (109)	20 (20)
	Anthracene	50	47.8	ug/L	96	5			70 (65)	130 (110)	20 (20)
	Carbazole	50	44.7	ug/L	89	6			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	46.1	ug/L	92	5			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	44.4	ug/L	89	7			70 (64)	130 (110)	20 (20)
	Pyrene	50	49.3	ug/L	99	0			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	51.6	ug/L	103	3			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	30.8	ug/L	62	22	*	*	70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	46.6	ug/L	93	3			70 (62)	130 (107)	20 (20)
	Chrysene	50	47.4	ug/L	95	6			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	50.2	ug/L	100	3			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	47.9	ug/L	96	6			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	40.2	ug/L	80	1			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	49.2	ug/L	98	17			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	49.9	ug/L	100	6			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	52.0	ug/L	104	4			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	51.3	ug/L	103	4			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	46.8	ug/L	94	4			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	45.4	ug/L	91	8			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	38.4	ug/L	77	11			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	47.7	ug/L	95	5			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164702BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140262.D Lab Sample ID: PB164702BL

Instrument ID: BNA_F Date Extracted: 11/06/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/07/2024

Level: (low/med) LOW Time Analyzed: 09:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164702BS	PB164702BS	BF140263.D	11/07/2024
WB-307-SB02MS	P4718-02MS	BF140272.D	11/07/2024
WB-307-SB02MSD	P4718-02MSD	BF140273.D	11/07/2024
WB-307-SB01	P4718-01	BF140270.D	11/07/2024
WB-307-SB02	P4718-02	BF140271.D	11/07/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164846BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140367.D Lab Sample ID: PB164846BL

Instrument ID: BNA_F Date Extracted: 11/09/2024

Matrix: (soil/water) Water Date Analyzed: 11/14/2024

Level: (low/med) LOW Time Analyzed: 17:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164846BS	PB164846BS	BF140446.D	11/18/2024
PB164846BSD	PB164846BSD	BF140447.D	11/18/2024
WB-307-SW	P4718-04	BF140363.D	11/14/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140230.D DFTPP Injection Date: 11/05/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.5
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 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	BF140231.D	11/05/2024	12:26
SSTDICC005	SSTDICC005	BF140232.D	11/05/2024	12:52
SSTDICC010	SSTDICC010	BF140233.D	11/05/2024	13:18
SSTDICC020	SSTDICC020	BF140234.D	11/05/2024	13:45
SSTDICCC040	SSTDICCC040	BF140235.D	11/05/2024	14:11
SSTDICC050	SSTDICC050	BF140236.D	11/05/2024	14:37
SSTDICC060	SSTDICC060	BF140237.D	11/05/2024	15:03
SSTDICC080	SSTDICC080	BF140238.D	11/05/2024	15:30

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140260.D DFTPP Injection Date: 11/07/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.4
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	28.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	98.8
443	15.0 - 24.0% of mass 442	19.4 (19.6) 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	BF140261.D	11/07/2024	08:59
PB164702BL	PB164702BL	BF140262.D	11/07/2024	09:28
PB164702BS	PB164702BS	BF140263.D	11/07/2024	09:54
WB-307-SB01	P4718-01	BF140270.D	11/07/2024	13:07
WB-307-SB02	P4718-02	BF140271.D	11/07/2024	13:33
WB-307-SB02MS	P4718-02MS	BF140272.D	11/07/2024	14:00
WB-307-SB02MSD	P4718-02MSD	BF140273.D	11/07/2024	14:27

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	88.6
443	15.0 - 24.0% of mass 442	16.7 (18.8) 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	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140350.D DFTPP Injection Date: 11/14/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.6
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	38.3
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	48.5
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	88.9
443	15.0 - 24.0% of mass 442	16 (18) 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	BF140351.D	11/14/2024	09:42
WB-307-SW	P4718-04	BF140363.D	11/14/2024	15:39

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140365.D DFTPP Injection Date: 11/14/2024

Instrument ID: BNA_F DFTPP Injection Time: 16:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.3
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	39.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	28.2
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	12.8
442	Greater than 50% of mass 198	82.7
443	15.0 - 24.0% of mass 442	15.3 (18.4) 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	BF140366.D	11/14/2024	17:02
PB164846BL	PB164846BL	BF140367.D	11/14/2024	17:28

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140442.D DFTPP Injection Date: 11/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	36.9
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	48.2
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	28.7
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	97.5
443	15.0 - 24.0% of mass 442	18.1 (18.5) 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	BF140443.D	11/18/2024	10:13
PB164846BS	PB164846BS	BF140446.D	11/18/2024	11:32
PB164846BSD	PB164846BSD	BF140447.D	11/18/2024	11:58

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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	194677	6.881	715714	8.16	419359	9.92
	UPPER LIMIT	389354	7.381	1431430	8.663	838718	10.422
	LOWER LIMIT	97338.5	6.381	357857	7.663	209680	9.422
	EPA SAMPLE NO.						
01	WB-307-SB01	127578	6.88	477012	8.16	268251	9.92
02	WB-307-SB02	123660	6.88	467420	8.16	268928	9.91
03	WB-307-SB02MS	123564	6.88	474391	8.16	274410	9.92
04	WB-307-SB02MSD	124801	6.88	475239	8.16	277394	9.92
05	PB164702BL	166392	6.88	650819	8.16	391148	9.92
06	PB164702BS	189444	6.88	717811	8.16	420554	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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/07/2024

Lab File ID: BF140261.D Time Analyzed: 08:59

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	752975	11.41	445081	14.069	403199	15.574
	UPPER LIMIT	1505950	11.91	890162	14.569	806398	16.074
	LOWER LIMIT	376488	10.91	222541	13.569	201600	15.074
	EPA SAMPLE NO.						
01	WB-307-SB01	494200	11.40	284643	14.05	292875	15.56
02	WB-307-SB02	499705	11.40	296704	14.05	275946	15.56
03	WB-307-SB02MS	511867	11.41	275517	14.06	287359	15.58
04	WB-307-SB02MSD	516198	11.41	284018	14.07	293574	15.59
05	PB164702BL	728833	11.40	449594	14.06	367483	15.57
06	PB164702BS	766202	11.41	449132	14.06	405153	15.56

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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140351.D Time Analyzed: 09:42

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	138532	6.881	520272	8.16	291630	9.92
	UPPER LIMIT	277064	7.381	1040540	8.657	583260	10.416
	LOWER LIMIT	69266	6.381	260136	7.657	145815	9.416
	EPA SAMPLE NO.						
01	WB-307-SW	137046	6.87	514015	8.15	280819	9.90

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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140351.D Time Analyzed: 09:42

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	549011	11.404	316250	14.057	275847	15.557
	UPPER LIMIT	1098020	11.904	632500	14.557	551694	16.057
	LOWER LIMIT	274506	10.904	158125	13.557	137924	15.057
	EPA SAMPLE NO.						
01	WB-307-SW	486241	11.39	241422	14.05	265329	15.56

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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	130579	6.875	484942	8.16	265027	9.91
	UPPER LIMIT	261158	7.375	969884	8.657	530054	10.41
	LOWER LIMIT	65289.5	6.375	242471	7.657	132514	9.41
	EPA SAMPLE NO.						
01	PB164846BL	127444	6.87	481597	8.15	267971	9.90

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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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/14/2024

Lab File ID: BF140366.D Time Analyzed: 17:02

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	494420	11.398	287889	14.062	258896	15.592
	UPPER LIMIT	988840	11.898	575778	14.562	517792	16.092
	LOWER LIMIT	247210	10.898	143945	13.562	129448	15.092
	EPA SAMPLE NO.						
01	PB164846BL	519861	11.39	353605	14.06	317877	15.59

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

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* Values outside of QC limits.

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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	140634	6.875	521097	8.16	286394	9.92
	UPPER LIMIT	281268	7.375	1042190	8.657	572788	10.416
	LOWER LIMIT	70317	6.375	260549	7.657	143197	9.416
	EPA SAMPLE NO.						
01	PB164846BS	165160	6.88	638782	8.16	347317	9.92
02	PB164846BSD	145420	6.88	559684	8.16	308958	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

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* Values outside of QC limits.

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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	525142	11.404	270046	14.074	249102	15.604
	UPPER LIMIT	1050280	11.904	540092	14.574	498204	16.104
	LOWER LIMIT	262571	10.904	135023	13.574	124551	15.104
	EPA SAMPLE NO.						
01	PB164846BS	636734	11.40	331814	14.06	309689	15.56
02	PB164846BSD	581243	11.40	325114	14.05	284093	15.55

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

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* 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:	PB164702BL	SDG No.:	P4718
Lab Sample ID:	PB164702BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.3	U	71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	73.9	U	73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BL	SDG No.:	P4718
Lab Sample ID:	PB164702BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BL	SDG No.:	P4718
Lab Sample ID:	PB164702BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.6	U	74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	137		30 (18) - 130 (112)	91%	SPK: 150
13127-88-3	Phenol-d6	134		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.0		30 (18) - 130 (107)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.1		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	152		30 (10) - 130 (116)	101%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (10) - 130 (105)	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	166000	6.875			
1146-65-2	Naphthalene-d8	651000	8.157			
15067-26-2	Acenaphthene-d10	391000	9.916			
1517-22-2	Phenanthrene-d10	729000	11.404			
1719-03-5	Chrysene-d12	450000	14.057			
1520-96-3	Perylene-d12	367000	15.568			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	86.2	J		2.29	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	350	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:	PB164702BL			SDG No.:	P4718
Lab Sample ID:	PB164702BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	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
BF140262.D	1	11/06/24 09:45	11/07/24 09:28	PB164702

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:	PB164846BL	SDG No.:	P4718
Lab Sample ID:	PB164846BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BL	SDG No.:	P4718
Lab Sample ID:	PB164846BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164846BL	SDG No.:	P4718
Lab Sample ID:	PB164846BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	135		15 (10) - 110 (139)	90%	SPK: 150
13127-88-3	Phenol-d6	130		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.4		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		15 (44) - 110 (137)	90%	SPK: 150
1718-51-0	Terphenyl-d14	85.1		30 (48) - 130 (125)	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.869			
1146-65-2	Naphthalene-d8	482000	8.151			
15067-26-2	Acenaphthene-d10	268000	9.904			
1517-22-2	Phenanthrene-d10	520000	11.392			
1719-03-5	Chrysene-d12	354000	14.057			
1520-96-3	Perylene-d12	318000	15.586			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3.60	J		2.22	ug/L
004744-10-9	Propane, 1,1-dimethoxy-	2.90	J		2.33	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.80	A		5.12	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:	PB164846BL			SDG No.:	P4718
Lab Sample ID:	PB164846BL			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140367.D	1	11/09/24 08:38	11/14/24 17:28	PB164846

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:	PB164702BS	SDG No.:	P4718
Lab Sample ID:	PB164702BS	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
BF140263.D	1	11/06/24 09:45	11/07/24 09:54	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330		180	330	ug/Kg
108-95-2	Phenol	1500		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.9	170	ug/Kg
98-86-2	Acetophenone	1500		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1600		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.5	170	ug/Kg
91-20-3	Naphthalene	1500		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	730		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1400		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6600	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	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1600		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.7	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164702BS	SDG No.:	P4718
Lab Sample ID:	PB164702BS	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
BF140263.D	1	11/06/24 09:45	11/07/24 09:54	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	960		89.2	170	ug/Kg
83-32-9	Acenaphthene	1700		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3500	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1600		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.6	170	ug/Kg
86-73-7	Fluorene	1500		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	2100		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	3300	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1600		84.0	170	ug/Kg
120-12-7	Anthracene	1600		84.4	170	ug/Kg
86-74-8	Carbazole	1500		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1600		81.7	170	ug/Kg
129-00-0	Pyrene	1600		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.7	170	ug/Kg
218-01-9	Chrysene	1600		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		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:	PB164702BS	SDG No.:	P4718
Lab Sample ID:	PB164702BS	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
BF140263.D	1	11/06/24 09:45	11/07/24 09:54	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	125		30 (18) - 130 (112)	83%	SPK: 150
13127-88-3	Phenol-d6	122		30 (15) - 130 (107)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.5		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.4		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		30 (10) - 130 (116)	99%	SPK: 150
1718-51-0	Terphenyl-d14	97.3		30 (10) - 130 (105)	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	189000	6.881			
1146-65-2	Naphthalene-d8	718000	8.157			
15067-26-2	Acenaphthene-d10	421000	9.922			
1517-22-2	Phenanthrene-d10	766000	11.41			
1719-03-5	Chrysene-d12	449000	14.063			
1520-96-3	Perylene-d12	405000	15.563			

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:	PB164846BS	SDG No.:	P4718
Lab Sample ID:	PB164846BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140446.D	1	11/09/24 08:38	11/18/24 11:32	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	40.0		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	42.6		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	43.4		0.71	5.00	ug/L
95-48-7	2-Methylphenol	41.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.0		1.40	5.00	ug/L
98-86-2	Acetophenone	40.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.3		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.4		1.50	2.50	ug/L
67-72-1	Hexachloroethane	41.9		1.00	5.00	ug/L
98-95-3	Nitrobenzene	39.3		1.30	5.00	ug/L
78-59-1	Isophorone	41.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	42.9		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	50.3		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.0		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.2		0.88	5.00	ug/L
91-20-3	Naphthalene	40.5		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	32.4		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	40.4		1.30	5.00	ug/L
105-60-2	Caprolactam	41.6		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.8		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.1		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	170	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	41.3		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	41.5		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	40.8		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	42.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	43.1		0.93	5.00	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:	PB164846BS	SDG No.:	P4718
Lab Sample ID:	PB164846BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140446.D	1	11/09/24 08:38	11/18/24 11:32	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	44.4		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	41.5		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	33.3		1.40	5.00	ug/L
83-32-9	Acenaphthene	47.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	90.8	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	82.6	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.1		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.2		1.50	5.00	ug/L
84-66-2	Diethylphthalate	42.3		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41.5		0.98	5.00	ug/L
86-73-7	Fluorene	41.6		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	40.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.8		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	43.7		1.10	5.00	ug/L
1912-24-9	Atrazine	36.8		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	84.8	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	43.3		0.89	5.00	ug/L
120-12-7	Anthracene	45.3		1.10	5.00	ug/L
86-74-8	Carbazole	42.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	41.3		1.30	5.00	ug/L
129-00-0	Pyrene	49.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	50.2		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	38.4		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.2		0.94	5.00	ug/L
218-01-9	Chrysene	44.6		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	48.6		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.1		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.7		1.10	5.00	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:	PB164846BS	SDG No.:	P4718
Lab Sample ID:	PB164846BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140446.D	1	11/09/24 08:38	11/18/24 11:32	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	41.3		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.0		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.0		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.5		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	42.0		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	34.4		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	45.4		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	119		15 (10) - 110 (139)	79%	SPK: 150
13127-88-3	Phenol-d6	116		15 (10) - 110 (134)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.8		30 (49) - 130 (133)	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.2		30 (52) - 130 (132)	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	165000	6.875			
1146-65-2	Naphthalene-d8	639000	8.157			
15067-26-2	Acenaphthene-d10	347000	9.916			
1517-22-2	Phenanthrene-d10	637000	11.404			
1719-03-5	Chrysene-d12	332000	14.057			
1520-96-3	Perylene-d12	310000	15.557			

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:	PB164846BSD	SDG No.:	P4718
Lab Sample ID:	PB164846BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140447.D	1	11/09/24 08:38	11/18/24 11:58	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	7.20	J	4.00	10.0	ug/L
108-95-2	Phenol	43.3		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	45.8		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	46.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	45.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	44.4		1.40	5.00	ug/L
98-86-2	Acetophenone	43.9		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.0		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	44.3		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.8		1.00	5.00	ug/L
98-95-3	Nitrobenzene	42.9		1.30	5.00	ug/L
78-59-1	Isophorone	44.8		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	46.9		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	45.0		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	45.5		0.88	5.00	ug/L
91-20-3	Naphthalene	43.9		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	22.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.7		1.30	5.00	ug/L
105-60-2	Caprolactam	43.8		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.8		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	44.8		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	180	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	45.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.3		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	45.0		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.1		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	45.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	46.0		0.93	5.00	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:	PB164846BSD	SDG No.:	P4718
Lab Sample ID:	PB164846BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140447.D	1	11/09/24 08:38	11/18/24 11:58	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	48.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	28.4		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	97.0	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	87.7	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	45.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.6		1.50	5.00	ug/L
84-66-2	Diethylphthalate	45.3		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.6		0.98	5.00	ug/L
86-73-7	Fluorene	44.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	43.8		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	50.4		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.9		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.1		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	45.4		1.10	5.00	ug/L
1912-24-9	Atrazine	51.5		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	87.7	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.9		0.89	5.00	ug/L
120-12-7	Anthracene	47.8		1.10	5.00	ug/L
86-74-8	Carbazole	44.7		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	46.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	44.4		1.30	5.00	ug/L
129-00-0	Pyrene	49.3		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	51.6		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	30.8		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.6		0.94	5.00	ug/L
218-01-9	Chrysene	47.4		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	50.2		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	47.9		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	40.2		1.10	5.00	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:	PB164846BSD	SDG No.:	P4718
Lab Sample ID:	PB164846BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140447.D	1	11/09/24 08:38	11/18/24 11:58	PB164846

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	49.2		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	49.9		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	52.0		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	46.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.4		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	38.4		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	47.7		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	126		15 (10) - 110 (139)	84%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.0		30 (49) - 130 (133)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		30 (52) - 130 (132)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		15 (44) - 110 (137)	88%	SPK: 150
1718-51-0	Terphenyl-d14	99.7		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	145000	6.875			
1146-65-2	Naphthalene-d8	560000	8.157			
15067-26-2	Acenaphthene-d10	309000	9.916			
1517-22-2	Phenanthrene-d10	581000	11.404			
1719-03-5	Chrysene-d12	325000	14.051			
1520-96-3	Perylene-d12	284000	15.545			

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140272.D	1	11/06/24 09:45	11/07/24 14:00	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	440		230	420	ug/Kg
108-95-2	Phenol	2300		110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2300		110	220	ug/Kg
95-48-7	2-Methylphenol	2300		100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2200		120	220	ug/Kg
98-86-2	Acetophenone	2100		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2200		100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2200		51.9	100	ug/Kg
67-72-1	Hexachloroethane	2100		110	220	ug/Kg
98-95-3	Nitrobenzene	2000		120	220	ug/Kg
78-59-1	Isophorone	2200		110	220	ug/Kg
88-75-5	2-Nitrophenol	2400		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		97.2	220	ug/Kg
91-20-3	Naphthalene	2100		110	220	ug/Kg
106-47-8	4-Chloroaniline	1500		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2100		110	220	ug/Kg
105-60-2	Caprolactam	2400		110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2200		99.8	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	8500	E	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2300		91.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2300		95.3	220	ug/Kg
92-52-4	1,1-Biphenyl	2200		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2100		110	220	ug/Kg
88-74-4	2-Nitroaniline	2300		120	220	ug/Kg
131-11-3	Dimethylphthalate	2300		110	220	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140272.D	1	11/06/24 09:45	11/07/24 14:00	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2400		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		110	220	ug/Kg
99-09-2	3-Nitroaniline	1800		110	220	ug/Kg
83-32-9	Acenaphthene	2500		100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	4900	E	310	420	ug/Kg
100-02-7	4-Nitrophenol	5300	E	150	420	ug/Kg
132-64-9	Dibenzofuran	2300		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2400		110	220	ug/Kg
84-66-2	Diethylphthalate	2300		100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2200		110	220	ug/Kg
86-73-7	Fluorene	2200		110	220	ug/Kg
100-01-6	4-Nitroaniline	2400		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2600		150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2200		110	220	ug/Kg
1912-24-9	Atrazine	3000		120	220	ug/Kg
87-86-5	Pentachlorophenol	4800	E	99.5	420	ug/Kg
85-01-8	Phenanthrene	2200		110	220	ug/Kg
120-12-7	Anthracene	2300		110	220	ug/Kg
86-74-8	Carbazole	2200		100	220	ug/Kg
84-74-2	Di-n-butylphthalate	2300		110	220	ug/Kg
206-44-0	Fluoranthene	2100		110	220	ug/Kg
129-00-0	Pyrene	2400		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2500		120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000		130	420	ug/Kg
56-55-3	Benzo(a)anthracene	2300		100	220	ug/Kg
218-01-9	Chrysene	2300		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	2300		140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	2400		100	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
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
BF140272.D	1	11/06/24 09:45	11/07/24 14:00	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2100		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2200		110	220	ug/Kg
123-91-1	1,4-Dioxane	2000		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2500		96.2	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	108		30 (18) - 130 (112)	72%	SPK: 150
13127-88-3	Phenol-d6	109		30 (15) - 130 (107)	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.6		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.9		30 (20) - 130 (109)	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		30 (10) - 130 (116)	81%	SPK: 150
1718-51-0	Terphenyl-d14	80.3		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	124000	6.875			
1146-65-2	Naphthalene-d8	474000	8.157			
15067-26-2	Acenaphthene-d10	274000	9.916			
1517-22-2	Phenanthrene-d10	512000	11.41			
1719-03-5	Chrysene-d12	276000	14.063			
1520-96-3	Perylene-d12	287000	15.58			

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140273.D	1	11/06/24 09:45	11/07/24 14:27	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	440		230	420	ug/Kg
108-95-2	Phenol	2200		110	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		110	220	ug/Kg
95-57-8	2-Chlorophenol	2300		110	220	ug/Kg
95-48-7	2-Methylphenol	2200		100	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2100		120	220	ug/Kg
98-86-2	Acetophenone	2100		110	220	ug/Kg
65794-96-9	3+4-Methylphenols	2200		100	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		51.9	100	ug/Kg
67-72-1	Hexachloroethane	2100		110	220	ug/Kg
98-95-3	Nitrobenzene	2000		120	220	ug/Kg
78-59-1	Isophorone	2100		110	220	ug/Kg
88-75-5	2-Nitrophenol	2300		120	220	ug/Kg
105-67-9	2,4-Dimethylphenol	2600		120	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		110	220	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		97.2	220	ug/Kg
91-20-3	Naphthalene	2100		110	220	ug/Kg
106-47-8	4-Chloroaniline	1500		110	220	ug/Kg
87-68-3	Hexachlorobutadiene	2000		110	220	ug/Kg
105-60-2	Caprolactam	2400		110	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2200		99.7	220	ug/Kg
91-57-6	2-Methylnaphthalene	2200		110	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	8100	E	200	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		91.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		95.2	220	ug/Kg
92-52-4	1,1-Biphenyl	2100		110	220	ug/Kg
91-58-7	2-Chloronaphthalene	2100		110	220	ug/Kg
88-74-4	2-Nitroaniline	2200		120	220	ug/Kg
131-11-3	Dimethylphthalate	2200		110	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140273.D	1	11/06/24 09:45	11/07/24 14:27	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2300		110	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		110	220	ug/Kg
99-09-2	3-Nitroaniline	1700		110	220	ug/Kg
83-32-9	Acenaphthene	2500		100	220	ug/Kg
51-28-5	2,4-Dinitrophenol	5000	E	310	420	ug/Kg
100-02-7	4-Nitrophenol	5300	E	150	420	ug/Kg
132-64-9	Dibenzofuran	2200		110	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	2300		110	220	ug/Kg
84-66-2	Diethylphthalate	2200		100	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		110	220	ug/Kg
86-73-7	Fluorene	2200		110	220	ug/Kg
100-01-6	4-Nitroaniline	2300		140	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2500		150	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		110	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		100	220	ug/Kg
118-74-1	Hexachlorobenzene	2100		110	220	ug/Kg
1912-24-9	Atrazine	2900		120	220	ug/Kg
87-86-5	Pentachlorophenol	4700	E	99.5	420	ug/Kg
85-01-8	Phenanthrene	2200		110	220	ug/Kg
120-12-7	Anthracene	2300		110	220	ug/Kg
86-74-8	Carbazole	2200		100	220	ug/Kg
84-74-2	Di-n-butylphthalate	2300		110	220	ug/Kg
206-44-0	Fluoranthene	2100		110	220	ug/Kg
129-00-0	Pyrene	2300		110	220	ug/Kg
85-68-7	Butylbenzylphthalate	2400		120	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		130	420	ug/Kg
56-55-3	Benzo(a)anthracene	2200		100	220	ug/Kg
218-01-9	Chrysene	2300		100	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2200		120	220	ug/Kg
117-84-0	Di-n-octyl phthalate	2200		140	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		100	220	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	77.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140273.D	1	11/06/24 09:45	11/07/24 14:27	PB164702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2300		110	220	ug/Kg
50-32-8	Benzo(a)pyrene	2400		120	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		100	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		100	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		100	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2100		110	220	ug/Kg
123-91-1	1,4-Dioxane	2000		140	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2400		96.1	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	70%	SPK: 150
13127-88-3	Phenol-d6	106		30 (15) - 130 (107)	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.7		30 (18) - 130 (107)	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.3		30 (20) - 130 (109)	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		30 (10) - 130 (116)	81%	SPK: 150
1718-51-0	Terphenyl-d14	76.8		30 (10) - 130 (105)	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125000	6.875			
1146-65-2	Naphthalene-d8	475000	8.157			
15067-26-2	Acenaphthene-d10	277000	9.916			
1517-22-2	Phenanthrene-d10	516000	11.41			
1719-03-5	Chrysene-d12	284000	14.068			
1520-96-3	Perylene-d12	294000	15.586			

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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 16:47:56 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140231.D 5 =BF140232.D 10 =BF140233.D 20 =BF140234.D 40 =BF140235.D 50 =BF140236.D 60 =BF140237.D 80 =BF1402
38.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.613	0.582	0.576	0.550	0.526	0.527	0.511	0.555	6.64
3)		Pyridine		1.464	1.445	1.402	1.340	1.296	1.298	1.233	1.354	6.33
4)		n-Nitrosodimet...		0.799	0.792	0.802	0.780	0.767	0.786	0.746	0.782	2.52
5)	S	2-Fluorophenol		1.359	1.298	1.261	1.159	1.138	1.151	1.083	1.207	8.29
6)		Aniline		1.609	1.513	1.499	1.365	1.316	1.298	1.218	1.402	9.99
7)	S	Phenol-d6		1.765	1.679	1.604	1.495	1.462	1.468	1.392	1.552	8.66
8)		2-Chlorophenol		1.441	1.385	1.311	1.214	1.187	1.182	1.121	1.263	9.38
9)		Benzaldehyde		1.159	1.137	1.085	0.949	0.839	0.823	0.701	0.956	18.46
10)	C	Phenol		1.863	1.779	1.752	1.593	1.575	1.544	1.434	1.649	9.23
11)		bis(2-Chloroet...		1.417	1.354	1.285	1.209	1.201	1.201	1.100	1.252	8.57
12)		1,3-Dichlorobe...		1.690	1.605	1.555	1.413	1.387	1.388	1.322	1.480	9.22
13)	C	1,4-Dichlorobe...		1.720	1.636	1.551	1.423	1.393	1.401	1.322	1.492	9.78
14)		1,2-Dichlorobe...		1.622	1.553	1.494	1.309	1.291	1.286	1.201	1.394	11.49
15)		Benzyl Alcohol		1.282	1.280	1.258	1.182	1.147	1.154	1.075	1.197	6.59
16)		2,2'-oxybis(1-...		2.305	2.213	2.143	1.958	1.910	1.898	1.764	2.027	9.65
17)		2-Methylphenol		1.155	1.105	1.086	1.028	1.005	1.022	0.973	1.053	6.05
18)		Hexachloroethane		0.612	0.603	0.576	0.533	0.524	0.537	0.507	0.556	7.37
19)	P	n-Nitroso-di-n...	1.035	1.117	1.062	1.015	0.949	0.923	0.936	0.886	0.990	8.01
20)		3+4-Methylphenols		1.503	1.446	1.403	1.277	1.240	1.242	1.150	1.323	9.73
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.564	0.535	0.512	0.474	0.461	0.472	0.453	0.496	8.43
23)	S	Nitrobenzene-d5		0.435	0.420	0.415	0.392	0.387	0.391	0.377	0.402	5.21
24)		Nitrobenzene		0.452	0.442	0.436	0.414	0.407	0.407	0.396	0.422	5.04
25)		Isophorone		0.754	0.722	0.699	0.675	0.659	0.680	0.660	0.693	5.05
26)	C	2-Nitrophenol		0.160	0.167	0.170	0.171	0.167	0.173	0.168	0.168	2.47
27)		2,4-Dimethylph...		0.240	0.237	0.234	0.224	0.221	0.227	0.216	0.228	3.88
28)		bis(2-Chloroet...		0.459	0.441	0.428	0.400	0.390	0.399	0.383	0.415	6.93
29)	C	2,4-Dichloroph...		0.297	0.299	0.291	0.278	0.270	0.277	0.266	0.283	4.67
30)		1,2,4-Trichlor...		0.373	0.362	0.349	0.328	0.318	0.327	0.314	0.339	6.72
31)		Naphthalene		1.206	1.119	1.071	0.992	0.956	0.965	0.921	1.033	9.94
32)		Benzoic acid			0.136	0.161	0.193	0.207	0.211	0.216	0.187	17.07
33)		4-Chloroaniline		0.372	0.367	0.354	0.330	0.322	0.323	0.311	0.340	7.13
34)	C	Hexachlorobuta...		0.251	0.241	0.238	0.222	0.218	0.223	0.212	0.229	6.22
35)		Caprolactam		0.090	0.087	0.088	0.085	0.084	0.086	0.082	0.086	2.94
36)	C	4-Chloro-3-met...		0.337	0.326	0.319	0.312	0.303	0.307	0.298	0.315	4.33
37)		2-Methylnaphth...		0.772	0.743	0.702	0.644	0.626	0.627	0.605	0.674	9.64
38)		1-Methylnaphth...		0.765	0.720	0.691	0.634	0.612	0.619	0.583	0.661	10.00

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.657	0.619	0.600	0.562	0.559	0.562	0.538	0.586	7.15
41)	P	Hexachlorocycl...	0.124	0.145	0.169	0.183	0.177	0.181	0.169	0.164	13.27
42)	S	2,4,6-Tribromo...	0.199	0.200	0.197	0.194	0.197	0.202	0.195	0.198	1.40
43)	C	2,4,6-Trichlor...	0.377	0.369	0.363	0.361	0.354	0.356	0.359	0.363	2.16
44)		2,4,5-Trichlor...	0.391	0.398	0.396	0.373	0.374	0.383	0.355	0.381	4.02
45)	S	2-Fluorobiphenyl	1.481	1.381	1.312	1.183	1.148	1.166	1.097	1.253	11.27
46)		1,1'-Biphenyl	1.663	1.590	1.521	1.376	1.342	1.347	1.281	1.446	10.02
47)		2-Chloronaphth...	1.195	1.171	1.135	1.050	1.036	1.040	0.990	1.088	7.17
48)		2-Nitroaniline	0.357	0.372	0.371	0.369	0.363	0.364	0.352	0.364	1.99
49)		Acenaphthylene	1.730	1.668	1.618	1.486	1.465	1.452	1.364	1.540	8.62
50)		Dimethylphthalate	1.363	1.310	1.262	1.191	1.182	1.180	1.135	1.232	6.65
51)		2,6-Dinitrotol...	0.302	0.297	0.299	0.286	0.286	0.284	0.272	0.290	3.57
52)	C	Acenaphthene	1.204	1.153	1.134	1.059	1.055	1.041	1.003	1.093	6.60
53)		3-Nitroaniline	0.294	0.286	0.282	0.269	0.267	0.262	0.248	0.273	5.83
54)	P	2,4-Dinitrophenol		0.071	0.101	0.128	0.135	0.139	0.142	0.120	23.23
55)		Dibenzofuran	1.773	1.683	1.603	1.467	1.424	1.421	1.324	1.528	10.59
56)	P	4-Nitrophenol	0.160	0.178	0.196	0.203	0.206	0.201	0.197	0.192	8.78
57)		2,4-Dinitrotol...	0.384	0.385	0.388	0.374	0.373	0.374	0.352	0.376	3.23
58)		Fluorene	1.446	1.345	1.267	1.154	1.127	1.115	1.059	1.216	11.55
59)		2,3,4,6-Tetrac...	0.323	0.324	0.321	0.305	0.309	0.308	0.298	0.313	3.26
60)		Diethylphthalate	1.360	1.319	1.271	1.185	1.170	1.165	1.097	1.224	7.72
61)		4-Chlorophenyl...	0.715	0.673	0.638	0.581	0.573	0.569	0.542	0.613	10.33
62)		4-Nitroaniline	0.278	0.276	0.282	0.270	0.267	0.270	0.254	0.271	3.45
63)		Azobenzene	1.460	1.373	1.319	1.219	1.200	1.190	1.122	1.269	9.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.080	0.100	0.110	0.112	0.116	0.113	0.105	12.60
66)	c	n-Nitrosodiphe...	0.646	0.608	0.600	0.551	0.543	0.549	0.530	0.575	7.48
67)		4-Bromophenyl-...	0.230	0.219	0.223	0.209	0.208	0.212	0.207	0.215	4.15
68)		Hexachlorobenzene	0.261	0.255	0.251	0.237	0.235	0.242	0.237	0.245	4.26
69)		Atrazine	0.204	0.189	0.155	0.156	0.127	0.138	0.133	0.157	18.48
70)	C	Pentachlorophenol	0.105	0.121	0.133	0.138	0.139	0.144	0.142	0.132	10.59
71)		Phenanthrene	1.082	1.044	1.004	0.915	0.885	0.902	0.849	0.954	9.28
72)		Anthracene	1.071	1.014	0.984	0.894	0.881	0.876	0.832	0.936	9.34
73)		Carbazole	0.973	0.919	0.901	0.822	0.805	0.809	0.759	0.855	8.93
74)		Di-n-butylphth...	1.119	1.096	1.062	0.975	0.961	0.966	0.907	1.012	7.87
75)	C	Fluoranthene	1.157	1.101	1.044	0.950	0.928	0.935	0.870	0.998	10.48
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.507	0.466	0.380	0.490	0.365	0.249	0.281	0.391	25.96
78)		Pyrene	1.851	1.733	1.728	1.590	1.572	1.596	1.490	1.651	7.49
79)	S	Terphenyl-d14	1.383	1.309	1.258	1.159	1.164	1.180	1.093	1.221	8.25
80)		Butylbenzylpht...	0.580	0.596	0.613	0.597	0.601	0.612	0.564	0.595	2.95
81)		Benzo(a)anthra...	1.386	1.344	1.345	1.232	1.232	1.254	1.193	1.284	5.71
82)		3,3'-Dichlorob...	0.387	0.409	0.410	0.417	0.406	0.401	0.392	0.403	2.57
83)		Chrysene	1.320	1.264	1.206	1.154	1.177	1.180	1.113	1.202	5.81
84)		Bis(2-ethylhex...	0.868	0.858	0.858	0.819	0.825	0.830	0.775	0.833	3.82
85)	c	Di-n-octyl pht...	1.201	1.234	1.283	1.267	1.265	1.291	1.240	1.254	2.52

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.107	1.110	1.213	1.195	1.172	1.230	1.191	1.174	4.11
88)		Benzo(b)fluora...	1.300	1.184	1.214	1.245	1.125	1.286	1.115	1.210	6.05
89)		Benzo(k)fluora...	1.214	1.230	1.206	1.027	1.085	0.975	1.034	1.110	9.46
90)	C	Benzo(a)pyrene	1.023	0.999	1.022	0.993	0.975	1.006	0.964	0.997	2.23
91)		Dibenzo(a,h)an...	0.917	0.923	0.998	0.979	0.968	1.000	0.976	0.966	3.44
92)		Benzo(g,h,i)pe...	0.949	0.941	1.017	0.994	0.977	1.017	1.002	0.985	3.13

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = Out of Range

Alliance TECHNICAL GROUP
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.207	1.165		-3.5	
Benzaldehyde	0.956	0.810		-15.3	
Phenol-d6	1.552	1.463		-5.7	
Phenol	1.649	1.561		-5.3	20.0
bis(2-Chloroethyl)ether	1.252	1.210		-3.4	
2-Chlorophenol	1.263	1.231		-2.5	
2-Methylphenol	1.053	1.018		-3.3	
2,2-oxybis(1-Chloropropane)	2.027	1.887		-6.9	
Acetophenone	0.496	0.470		-5.2	
3+4-Methylphenols	1.323	1.261		-4.7	
n-Nitroso-di-n-propylamine	0.990	0.931	0.050	-6.0	
Nitrobenzene-d5	0.402	0.382		-5.0	
Hexachloroethane	0.556	0.541		-2.7	
Nitrobenzene	0.422	0.399		-5.4	
Isophorone	0.693	0.666		-3.9	
2-Nitrophenol	0.168	0.177		5.4	20.0
2,4-Dimethylphenol	0.228	0.227		-0.4	
bis(2-Chloroethoxy)methane	0.415	0.403		-2.9	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.033	0.994		-3.8	
4-Chloroaniline	0.340	0.337		-0.9	
Hexachlorobutadiene	0.229	0.225		-1.7	20.0
Caprolactam	0.086	0.089		3.5	
4-Chloro-3-methylphenol	0.315	0.313		-0.6	20.0
2-Methylnaphthalene	0.674	0.656		-2.7	
Hexachlorocyclopentadiene	0.164	0.179	0.050	9.1	
2,4,6-Trichlorophenol	0.363	0.369		1.7	20.0
2-Fluorobiphenyl	1.253	1.179		-5.8	
2,4,5-Trichlorophenol	0.381	0.390		2.4	
1,1-Biphenyl	1.446	1.384		-4.3	
2-Chloronaphthalene	1.088	1.060		-2.6	
2-Nitroaniline	0.364	0.353		-3.0	
Dimethylphthalate	1.232	1.219		-1.1	
Acenaphthylene	1.540	1.494		-3.0	
2,6-Dinitrotoluene	0.290	0.293		1.0	
3-Nitroaniline	0.273	0.272		-0.4	
Acenaphthene	1.093	1.068		-2.3	20.0
2,4-Dinitrophenol	0.120	0.130	0.050	8.3	
4-Nitrophenol	0.192	0.199	0.050	3.6	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/07/2024 08:59

Lab File ID: BF140261.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.528	1.498		-2.0	
2,4-Dinitrotoluene	0.376	0.389		3.5	
Diethylphthalate	1.224	1.230		0.5	
4-Chlorophenyl-phenylether	0.613	0.600		-2.1	
Fluorene	1.216	1.168		-3.9	
4-Nitroaniline	0.271	0.275		1.5	
4,6-Dinitro-2-methylphenol	0.105	0.111		5.7	
n-Nitrosodiphenylamine	0.575	0.555		-3.5	20.0
2,4,6-Tribromophenol	0.198	0.209		5.6	
4-Bromophenyl-phenylether	0.215	0.217		0.9	
Hexachlorobenzene	0.245	0.246		0.4	
Atrazine	0.157	0.164		4.5	
Pentachlorophenol	0.132	0.145		9.8	20.0
Phenanthrene	0.954	0.929		-2.6	
Anthracene	0.936	0.894		-4.5	
Carbazole	0.855	0.830		-2.9	
Di-n-butylphthalate	1.012	1.017		0.5	
Fluoranthene	0.998	0.976		-2.2	20.0
Pyrene	1.651	1.654		0.2	
Terphenyl-d14	1.221	1.218		-0.2	
Butylbenzylphthalate	0.595	0.651		9.4	
3,3-Dichlorobenzidine	0.403	0.401		-0.5	
Benzo(a)anthracene	1.284	1.263		-1.6	
Chrysene	1.202	1.168		-2.8	
Bis(2-ethylhexyl)phthalate	0.833	0.864		3.7	
Di-n-octyl phthalate	1.254	1.310		4.5	20.0
Benzo(b)fluoranthene	1.210	1.159		-4.2	
Benzo(k)fluoranthene	1.110	1.122		1.1	
Benzo(a)pyrene	0.997	0.992		-0.5	20.0
Indeno(1,2,3-cd)pyrene	1.174	1.165		-0.8	
Dibenzo(a,h)anthracene	0.966	0.952		-1.4	
Benzo(g,h,i)perylene	0.985	0.966		-1.9	
1,2,4,5-Tetrachlorobenzene	0.586	0.573		-2.2	
1,4-Dioxane	0.555	0.516		-7.0	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.327		4.5	

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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 09:42

Lab File ID: BF140351.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.155		-1.4	
Benzaldehyde	0.951	0.837		-12.0	
Phenol-d6	1.587	1.544		-2.7	
Phenol	1.674	1.661		-0.8	20.0
bis(2-Chloroethyl)ether	1.268	1.235		-2.6	
2-Chlorophenol	1.258	1.240		-1.4	
2-Methylphenol	1.035	1.025		-1.0	
2,2-oxybis(1-Chloropropane)	1.752	1.728		-1.4	
Acetophenone	0.465	0.458		-1.5	
3+4-Methylphenols	1.295	1.274		-1.6	
n-Nitroso-di-n-propylamine	0.959	0.924	0.050	-3.7	
Nitrobenzene-d5	0.384	0.378		-1.6	
Hexachloroethane	0.520	0.513		-1.3	
Nitrobenzene	0.400	0.400		0.0	
Isophorone	0.680	0.659		-3.1	
2-Nitrophenol	0.177	0.182		2.8	20.0
2,4-Dimethylphenol	0.227	0.225		-0.9	
bis(2-Chloroethoxy)methane	0.417	0.409		-1.9	
2,4-Dichlorophenol	0.281	0.283		0.7	20.0
Naphthalene	1.015	0.996		-1.9	
4-Chloroaniline	0.353	0.336		-4.8	
Hexachlorobutadiene	0.199	0.201		1.0	20.0
Caprolactam	0.093	0.093		0.0	
4-Chloro-3-methylphenol	0.311	0.310		-0.3	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.145	0.050	2.1	
2,4,6-Trichlorophenol	0.363	0.371		2.2	20.0
2-Fluorobiphenyl	1.244	1.208		-2.9	
2,4,5-Trichlorophenol	0.397	0.392		-1.3	
1,1-Biphenyl	1.455	1.432		-1.6	
2-Chloronaphthalene	1.108	1.084		-2.2	
2-Nitroaniline	0.368	0.361		-1.9	
Dimethylphthalate	1.304	1.276		-2.1	
Acenaphthylene	1.677	1.653		-1.5	
2,6-Dinitrotoluene	0.297	0.295		-0.7	
3-Nitroaniline	0.312	0.311		-0.3	
Acenaphthene	1.133	1.111		-1.9	20.0
2,4-Dinitrophenol	0.153	0.148	0.050	-3.3	
4-Nitrophenol	0.228	0.231	0.050	1.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 09:42

Lab File ID: BF140351.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.580		-1.4	
2,4-Dinitrotoluene	0.391	0.398		1.8	
Diethylphthalate	1.333	1.296		-2.8	
4-Chlorophenyl-phenylether	0.625	0.617		-1.3	
Fluorene	1.267	1.226		-3.2	
4-Nitroaniline	0.319	0.315		-1.3	
4,6-Dinitro-2-methylphenol	0.108	0.112		3.7	
n-Nitrosodiphenylamine	0.578	0.561		-2.9	20.0
2,4,6-Tribromophenol	0.199	0.193		-3.0	
4-Bromophenyl-phenylether	0.200	0.194		-3.0	
Hexachlorobenzene	0.225	0.220		-2.2	
Atrazine	0.175	0.163		-6.9	
Pentachlorophenol	0.121	0.124		2.5	20.0
Phenanthrene	0.940	0.898		-4.5	
Anthracene	0.921	0.904		-1.8	
Carbazole	0.909	0.882		-3.0	
Di-n-butylphthalate	1.091	1.078		-1.2	
Fluoranthene	1.054	1.005		-4.6	20.0
Pyrene	1.711	1.794		4.9	
Terphenyl-d14	1.152	1.182		2.6	
Butylbenzylphthalate	0.657	0.714		8.7	
3,3-Dichlorobenzidine	0.418	0.406		-2.9	
Benzo(a)anthracene	1.314	1.285		-2.2	
Chrysene	1.199	1.151		-4.0	
Bis(2-ethylhexyl)phthalate	0.877	0.945		7.8	
Di-n-octyl phthalate	1.235	1.259		1.9	20.0
Benzo(b)fluoranthene	1.308	1.183		-9.6	
Benzo(k)fluoranthene	1.069	1.083		1.3	
Benzo(a)pyrene	1.016	1.001		-1.5	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.314		6.4	
Dibenzo(a,h)anthracene	1.021	1.090		6.8	
Benzo(g,h,i)perylene	1.044	1.103		5.7	
1,2,4,5-Tetrachlorobenzene	0.553	0.537		-2.9	
1,4-Dioxane	0.522	0.522		0.0	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.315		0.6	

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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.188		1.5	
Benzaldehyde	0.951	0.861		-9.5	
Phenol-d6	1.587	1.578		-0.6	
Phenol	1.674	1.678		0.2	20.0
bis(2-Chloroethyl)ether	1.268	1.243		-2.0	
2-Chlorophenol	1.258	1.256		-0.2	
2-Methylphenol	1.035	1.033		-0.2	
2,2-oxybis(1-Chloropropane)	1.752	1.678		-4.2	
Acetophenone	0.465	0.463		-0.4	
3+4-Methylphenols	1.295	1.288		-0.5	
n-Nitroso-di-n-propylamine	0.959	0.909	0.050	-5.2	
Nitrobenzene-d5	0.384	0.381		-0.8	
Hexachloroethane	0.520	0.504		-3.1	
Nitrobenzene	0.400	0.401		0.3	
Isophorone	0.680	0.661		-2.8	
2-Nitrophenol	0.177	0.178		0.6	20.0
2,4-Dimethylphenol	0.227	0.227		0.0	
bis(2-Chloroethoxy)methane	0.417	0.404		-3.1	
2,4-Dichlorophenol	0.281	0.281		0.0	20.0
Naphthalene	1.015	1.009		-0.6	
4-Chloroaniline	0.353	0.327		-7.4	
Hexachlorobutadiene	0.199	0.195		-2.0	20.0
Caprolactam	0.093	0.094		1.1	
4-Chloro-3-methylphenol	0.311	0.311		0.0	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.133	0.050	-6.3	
2,4,6-Trichlorophenol	0.363	0.368		1.4	20.0
2-Fluorobiphenyl	1.244	1.231		-1.0	
2,4,5-Trichlorophenol	0.397	0.409		3.0	
1,1-Biphenyl	1.455	1.467		0.8	
2-Chloronaphthalene	1.108	1.111		0.3	
2-Nitroaniline	0.368	0.374		1.6	
Dimethylphthalate	1.304	1.272		-2.5	
Acenaphthylene	1.677	1.672		-0.3	
2,6-Dinitrotoluene	0.297	0.303		2.0	
3-Nitroaniline	0.312	0.313		0.3	
Acenaphthene	1.133	1.135		0.2	20.0
2,4-Dinitrophenol	0.153	0.154	0.050	0.7	
4-Nitrophenol	0.228	0.236	0.050	3.5	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/14/2024 17:02

Lab File ID: BF140366.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.616		0.8	
2,4-Dinitrotoluene	0.391	0.397		1.5	
Diethylphthalate	1.333	1.281		-3.9	
4-Chlorophenyl-phenylether	0.625	0.604		-3.4	
Fluorene	1.267	1.256		-0.9	
4-Nitroaniline	0.319	0.328		2.8	
4,6-Dinitro-2-methylphenol	0.108	0.114		5.6	
n-Nitrosodiphenylamine	0.578	0.569		-1.6	20.0
2,4,6-Tribromophenol	0.199	0.200		0.5	
4-Bromophenyl-phenylether	0.200	0.193		-3.5	
Hexachlorobenzene	0.225	0.223		-0.9	
Atrazine	0.175	0.164		-6.3	
Pentachlorophenol	0.121	0.124		2.5	20.0
Phenanthrene	0.940	0.926		-1.5	
Anthracene	0.921	0.905		-1.7	
Carbazole	0.909	0.912		0.3	
Di-n-butylphthalate	1.091	1.021		-6.4	
Fluoranthene	1.054	1.029		-2.4	20.0
Pyrene	1.711	1.783		4.2	
Terphenyl-d14	1.152	1.148		-0.3	
Butylbenzylphthalate	0.657	0.642		-2.3	
3,3-Dichlorobenzidine	0.418	0.409		-2.2	
Benzo(a)anthracene	1.314	1.308		-0.5	
Chrysene	1.199	1.156		-3.6	
Bis(2-ethylhexyl)phthalate	0.877	0.791		-9.8	
Di-n-octyl phthalate	1.235	1.083		-12.3	20.0
Benzo(b)fluoranthene	1.308	1.240		-5.2	
Benzo(k)fluoranthene	1.069	1.043		-2.4	
Benzo(a)pyrene	1.016	1.000		-1.6	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.295		4.9	
Dibenzo(a,h)anthracene	1.021	1.058		3.6	
Benzo(g,h,i)perylene	1.044	1.108		6.1	
1,2,4,5-Tetrachlorobenzene	0.553	0.555		0.4	
1,4-Dioxane	0.522	0.547		4.8	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.320		2.2	

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.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.135		-3.1	
Benzaldehyde	0.951	0.765		-19.6	
Phenol-d6	1.587	1.499		-5.5	
Phenol	1.674	1.571		-6.2	20.0
bis(2-Chloroethyl)ether	1.268	1.213		-4.3	
2-Chlorophenol	1.258	1.220		-3.0	
2-Methylphenol	1.035	0.990		-4.3	
2,2-oxybis(1-Chloropropane)	1.752	1.612		-8.0	
Acetophenone	0.465	0.452		-2.8	
3+4-Methylphenols	1.295	1.212		-6.4	
n-Nitroso-di-n-propylamine	0.959	0.871	0.050	-9.2	
Nitrobenzene-d5	0.384	0.377		-1.8	
Hexachloroethane	0.520	0.516		-0.8	
Nitrobenzene	0.400	0.391		-2.3	
Isophorone	0.680	0.648		-4.7	
2-Nitrophenol	0.177	0.180		1.7	20.0
2,4-Dimethylphenol	0.227	0.223		-1.8	
bis(2-Chloroethoxy)methane	0.417	0.404		-3.1	
2,4-Dichlorophenol	0.281	0.280		-0.4	20.0
Naphthalene	1.015	0.999		-1.6	
4-Chloroaniline	0.353	0.324		-8.2	
Hexachlorobutadiene	0.199	0.203		2.0	20.0
Caprolactam	0.093	0.088		-5.4	
4-Chloro-3-methylphenol	0.311	0.303		-2.6	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.127	0.050	-10.6	
2,4,6-Trichlorophenol	0.363	0.369		1.7	20.0
2-Fluorobiphenyl	1.244	1.230		-1.1	
2,4,5-Trichlorophenol	0.397	0.391		-1.5	
1,1-Biphenyl	1.455	1.449		-0.4	
2-Chloronaphthalene	1.108	1.094		-1.3	
2-Nitroaniline	0.368	0.354		-3.8	
Dimethylphthalate	1.304	1.279		-1.9	
Acenaphthylene	1.677	1.643		-2.0	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.312	0.300		-3.8	
Acenaphthene	1.133	1.124		-0.8	20.0
2,4-Dinitrophenol	0.153	0.141	0.050	-7.8	
4-Nitrophenol	0.228	0.200	0.050	-12.7	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.577		-1.6	
2,4-Dinitrotoluene	0.391	0.386		-1.3	
Diethylphthalate	1.333	1.292		-3.1	
4-Chlorophenyl-phenylether	0.625	0.630		0.8	
Fluorene	1.267	1.233		-2.7	
4-Nitroaniline	0.319	0.299		-6.3	
4,6-Dinitro-2-methylphenol	0.108	0.114		5.6	
n-Nitrosodiphenylamine	0.578	0.582		0.7	20.0
2,4,6-Tribromophenol	0.199	0.197		-1.0	
4-Bromophenyl-phenylether	0.200	0.202		1.0	
Hexachlorobenzene	0.225	0.230		2.2	
Atrazine	0.175	0.151		-13.7	
Pentachlorophenol	0.121	0.114		-5.8	20.0
Phenanthrene	0.940	0.912		-3.0	
Anthracene	0.921	0.909		-1.3	
Carbazole	0.909	0.879		-3.3	
Di-n-butylphthalate	1.091	1.076		-1.4	
Fluoranthene	1.054	0.995		-5.6	20.0
Pyrene	1.711	1.930		12.8	
Terphenyl-d14	1.152	1.302		13.0	
Butylbenzylphthalate	0.657	0.725		10.4	
3,3-Dichlorobenzidine	0.418	0.399		-4.5	
Benzo(a)anthracene	1.314	1.317		0.2	
Chrysene	1.199	1.195		-0.3	
Bis(2-ethylhexyl)phthalate	0.877	0.911		3.9	
Di-n-octyl phthalate	1.235	1.195		-3.2	20.0
Benzo(b)fluoranthene	1.308	1.228		-6.1	
Benzo(k)fluoranthene	1.069	0.973		-9.0	
Benzo(a)pyrene	1.016	1.011		-0.5	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.378		11.6	
Dibenzo(a,h)anthracene	1.021	1.147		12.3	
Benzo(g,h,i)perylene	1.044	1.170		12.1	
1,2,4,5-Tetrachlorobenzene	0.553	0.560		1.3	
1,4-Dioxane	0.522	0.509		-2.5	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.303		-3.2	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Time: Nov 07 13:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

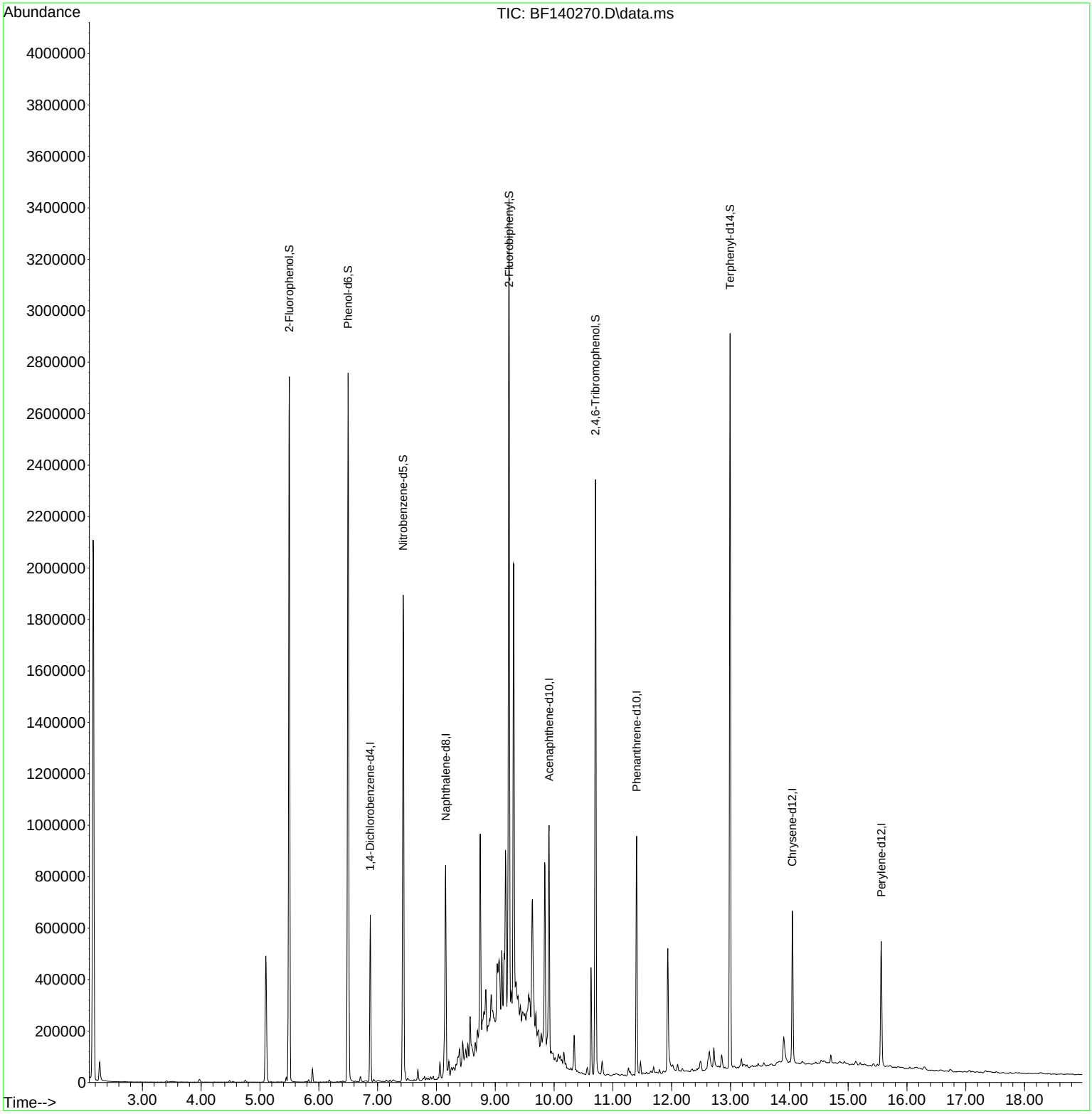
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	127578	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	477012	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	268251	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	494200	20.000	ng	0.00
76) Chrysene-d12	14.051	240	284643	20.000	ng	-0.01
86) Perylene-d12	15.563	264	292875	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1041303	135.263	ng	0.00
7) Phenol-d6	6.498	99	1329491	134.265	ng	0.00
23) Nitrobenzene-d5	7.434	82	866808	90.346	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	400726	151.131	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1391908	82.855	ng	0.00
79) Terphenyl-d14	12.992	244	1402027	80.687	ng	0.00
Target Compounds						Qvalue

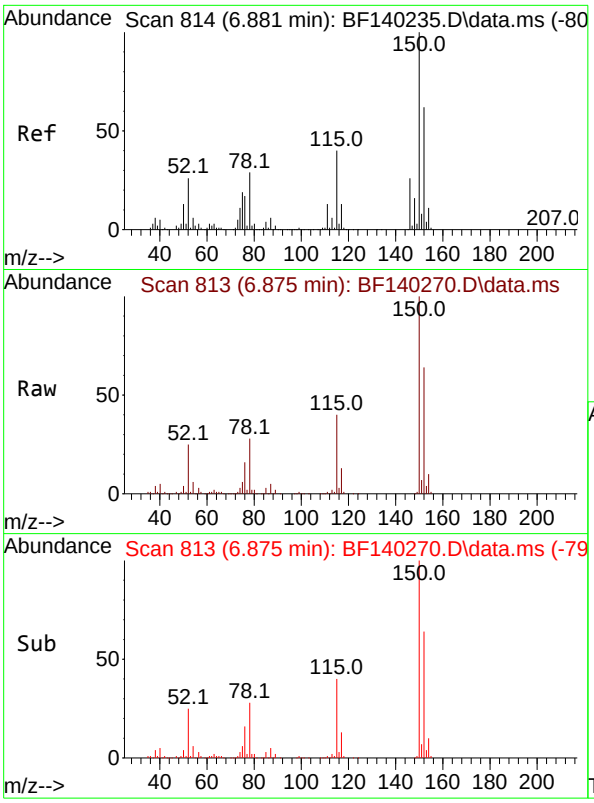
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Time: Nov 07 13:36:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



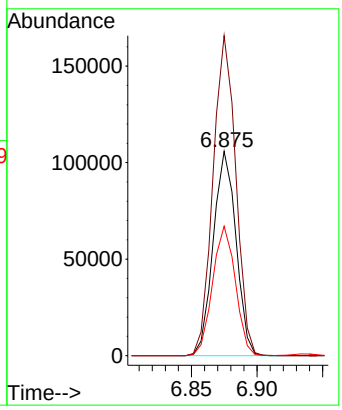


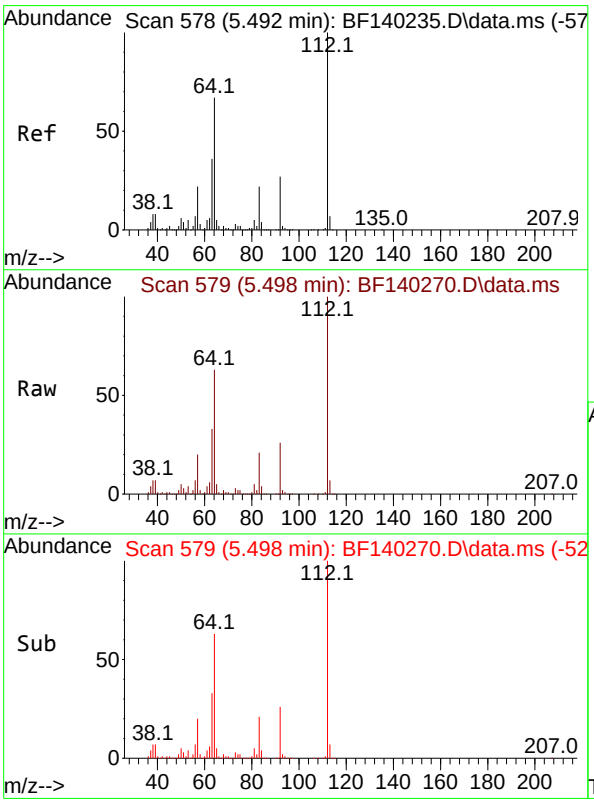
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Tgt Ion:152 Resp: 127578

Ion	Ratio	Lower	Upper
152	100		
150	156.6	129.4	194.2
115	63.4	51.5	77.3

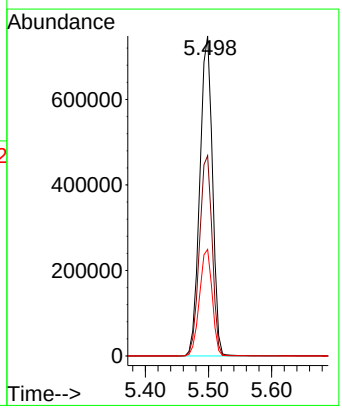


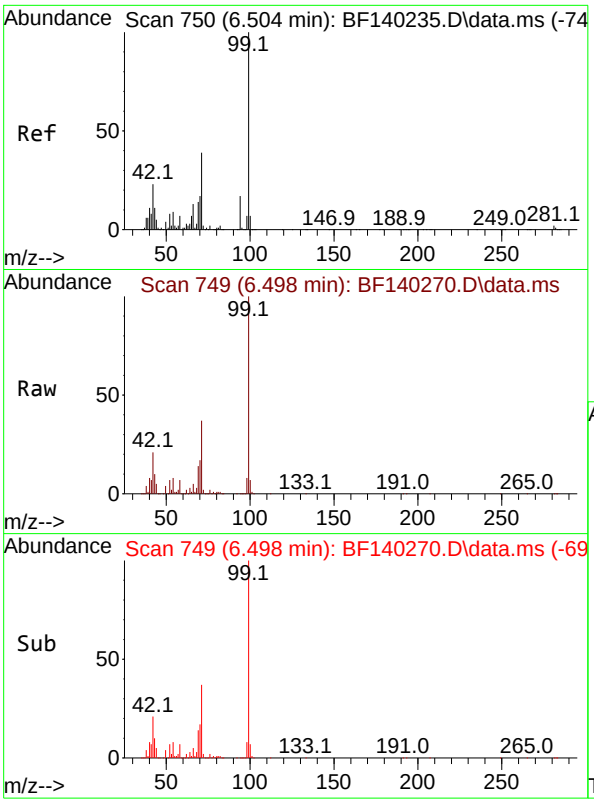


#5
2-Fluorophenol
Concen: 135.263 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion:112 Resp: 1041303

Ion	Ratio	Lower	Upper
112	100		
64	62.6	53.4	80.2
63	33.3	28.9	43.3



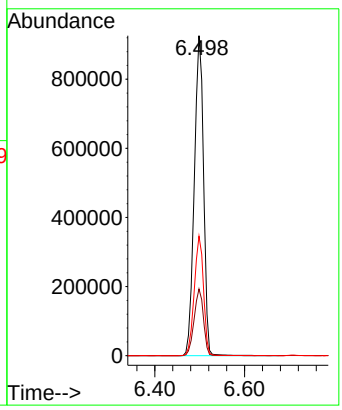


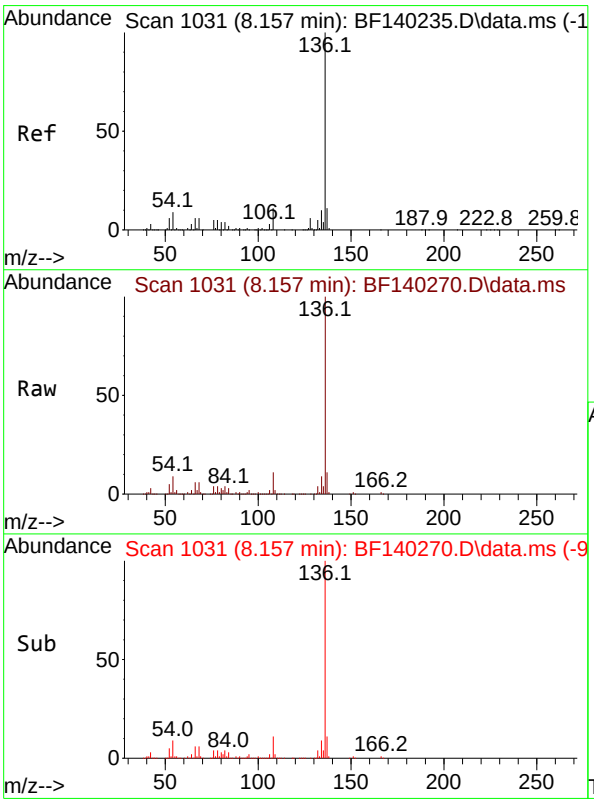
#7
Phenol-d6
Concen: 134.265 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Tgt Ion: 99 Resp: 1329491

Ion	Ratio	Lower	Upper
99	100		
42	20.8	18.2	27.2
71	37.4	30.9	46.3

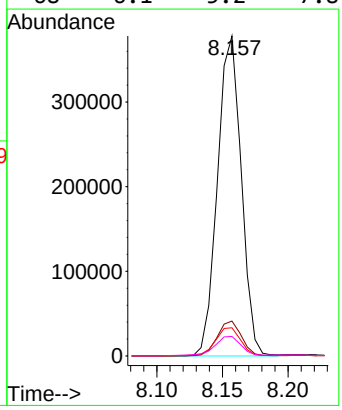


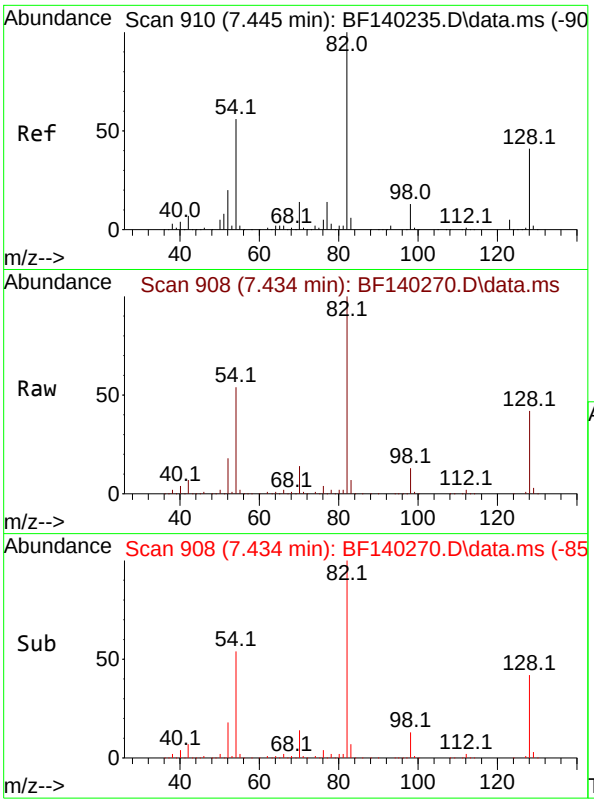


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion:136 Resp: 477012

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	8.8	7.7	11.5
68	6.1	5.2	7.8



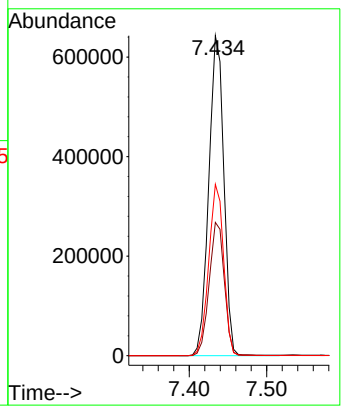


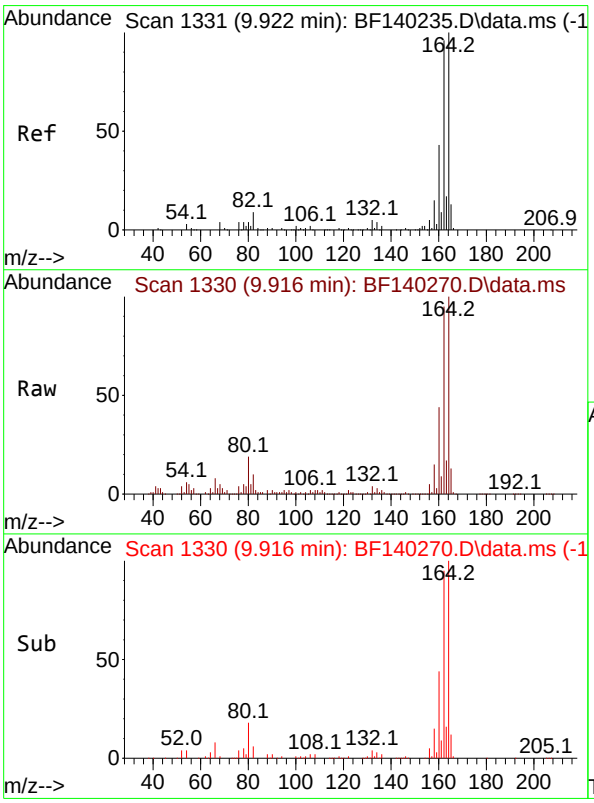
#23
Nitrobenzene-d5
Concen: 90.346 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Tgt Ion: 82 Resp: 866808

Ion	Ratio	Lower	Upper
82	100		
128	41.6	32.8	49.2
54	53.6	44.3	66.5

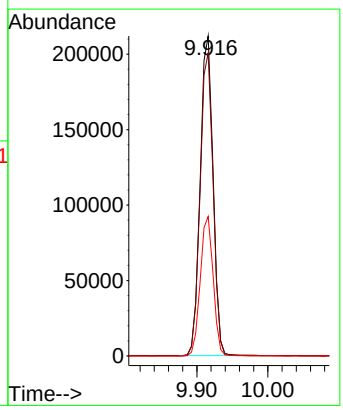


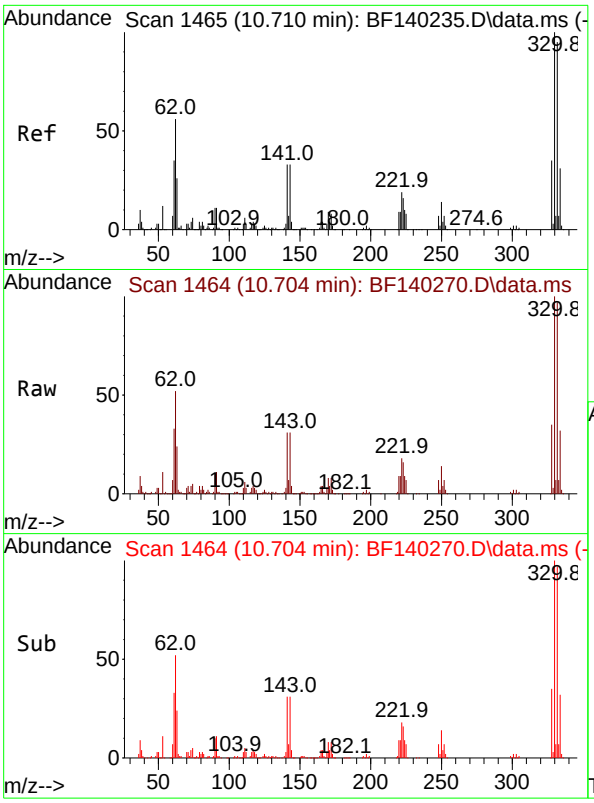


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion:164 Resp: 268251

Ion	Ratio	Lower	Upper
164	100		
162	94.7	77.0	115.4
160	43.6	34.1	51.1



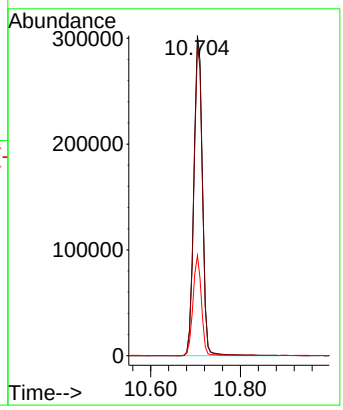


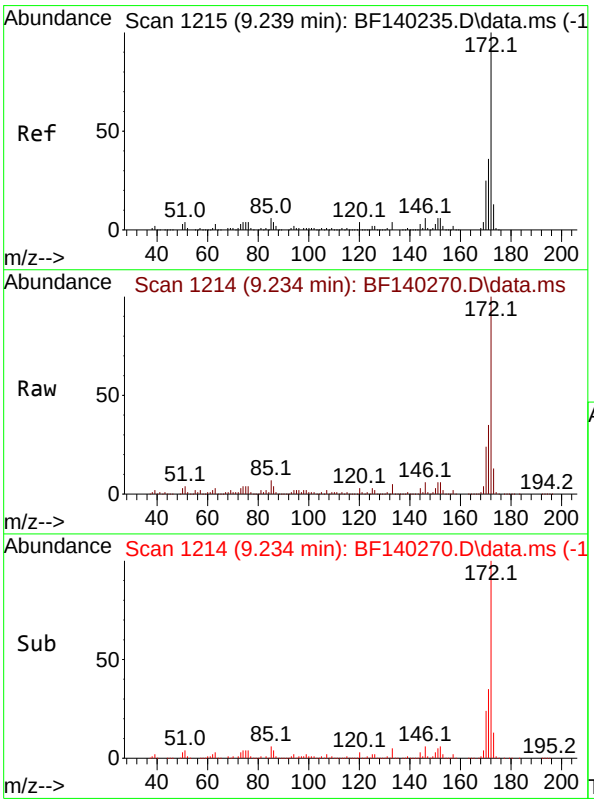
#42
2,4,6-Tribromophenol
Concen: 151.131 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Tgt Ion:330 Resp: 400726

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.4	114.6
141	30.7	27.0	40.4

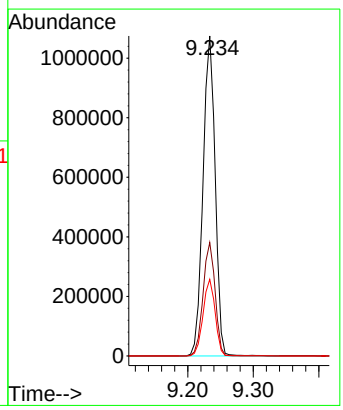


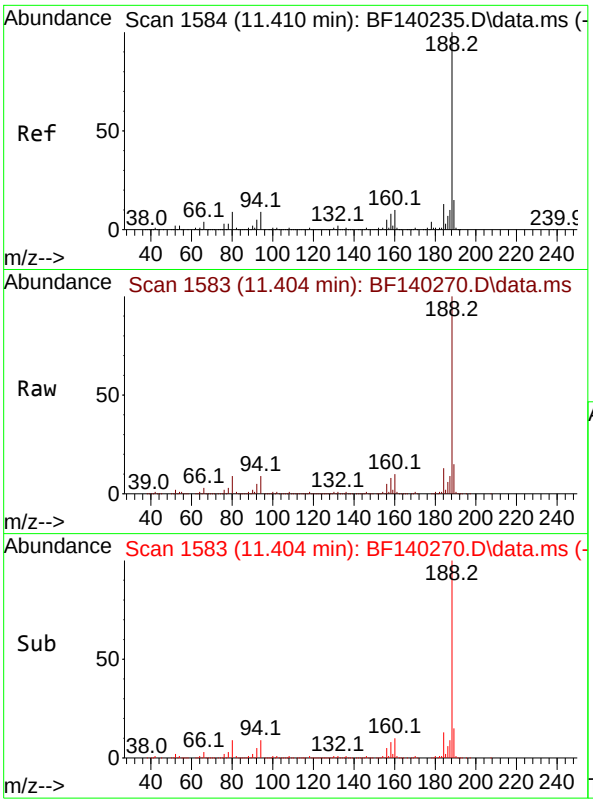


#45
2-Fluorobiphenyl
Concen: 82.855 ng
RT: 9.234 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion:172 Resp: 1391908

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	24.0	19.6	29.4



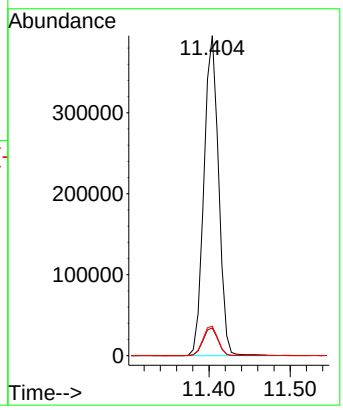


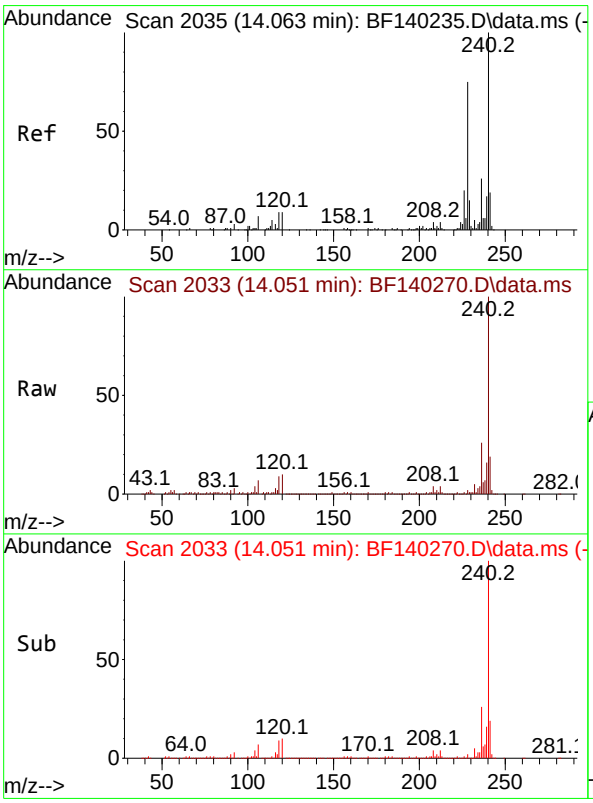
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Tgt Ion:188 Resp: 494200

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.9	10.3
80	9.2	7.5	11.3

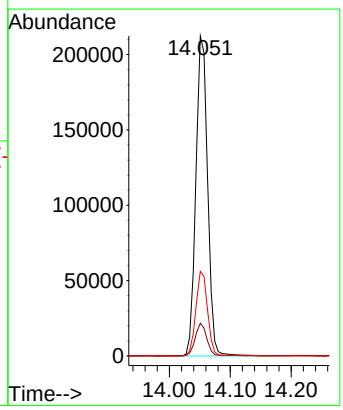


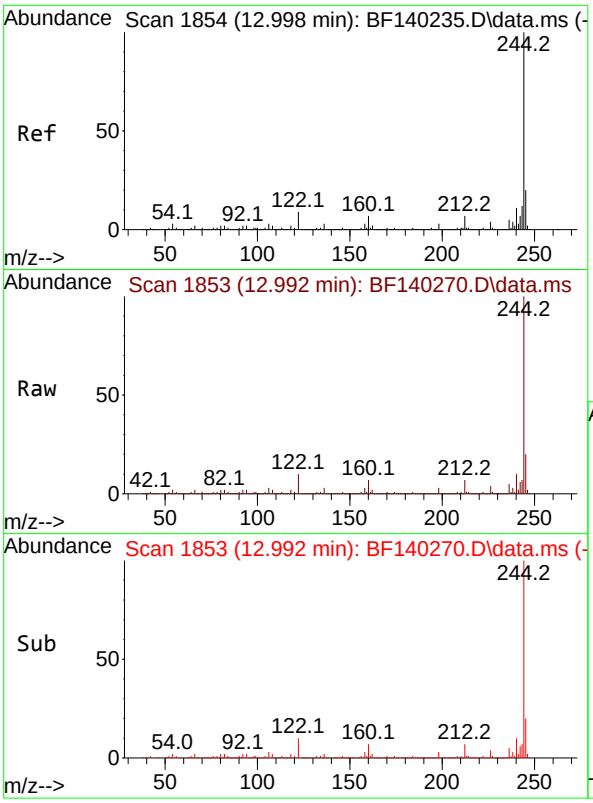


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.012 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion:240 Resp: 284643

Ion	Ratio	Lower	Upper
240	100		
120	10.2	7.5	11.3
236	26.5	20.9	31.3



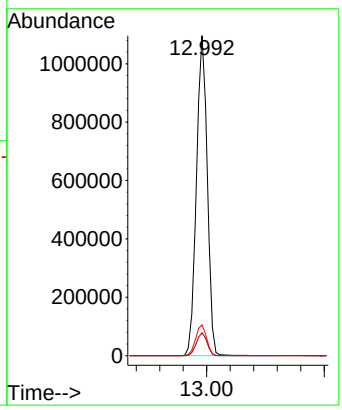


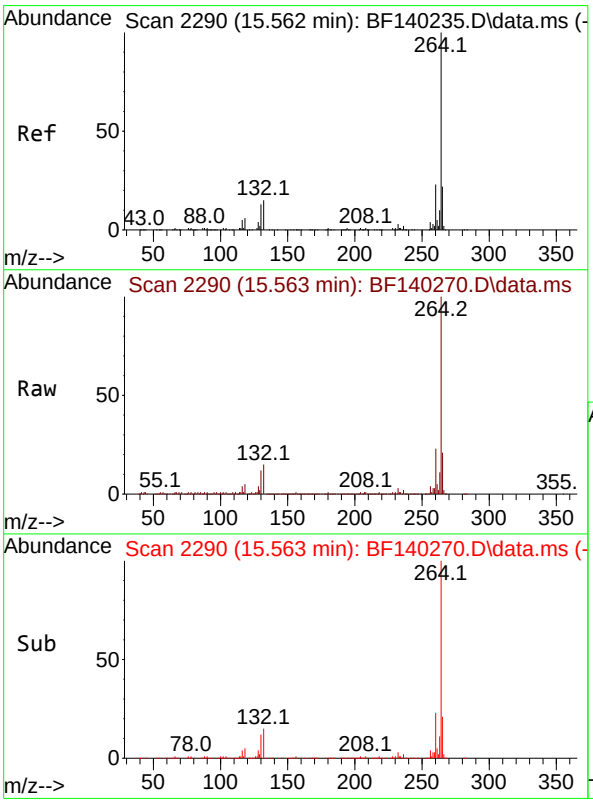
#79
Terphenyl-d14
Concen: 80.687 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Tgt Ion:244 Resp: 1402027

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	9.6	7.6	11.4

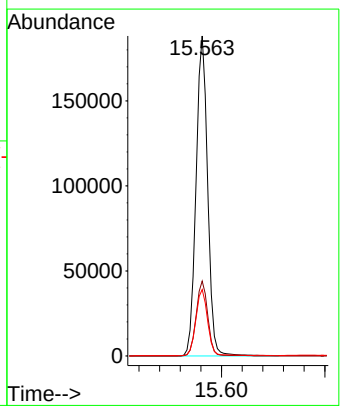




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2290
Delta R.T. 0.000 min
Lab File: BF140270.D
Acq: 07 Nov 2024 13:07

Tgt Ion:264 Resp: 292875

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.8	28.2
265	20.7	17.3	25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140270.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	5	12	25	rVB	2100890	3432553	83.67%	8.019%
2	2.275	25	31	44	rVB2	72810	123318	3.01%	0.288%
3	5.099	496	511	523	rBV	490571	809578	19.73%	1.891%
4	5.498	573	579	584	rBV	2736606	3802445	92.69%	8.884%
5	5.893	641	646	652	rVB	50474	62994	1.54%	0.147%
6	6.498	742	749	766	rVB	2755059	3987136	97.19%	9.315%
7	6.875	808	813	819	rVB	647987	790786	19.28%	1.848%
8	7.434	897	908	913	rBV	1892479	2571715	62.69%	6.008%
9	7.687	946	951	957	rVB	43233	58209	1.42%	0.136%
10	8.057	1010	1014	1020	rBV	60266	78887	1.92%	0.184%
11	8.157	1020	1031	1035	rBV	827389	1252741	30.54%	2.927%
12	8.210	1037	1040	1044	rVB2	54185	65387	1.59%	0.153%
13	8.257	1044	1048	1051	rBV4	30018	56271	1.37%	0.131%
14	8.369	1063	1067	1068	rBV3	31038	42937	1.05%	0.100%
15	8.392	1068	1071	1075	rVB2	66781	88509	2.16%	0.207%
16	8.445	1075	1080	1084	rBV4	94239	149514	3.64%	0.349%
17	8.534	1092	1095	1098	rBV3	52877	64660	1.58%	0.151%
18	8.575	1098	1102	1112	rBV	153982	262957	6.41%	0.614%
19	8.663	1113	1117	1119	rBV2	46835	63386	1.55%	0.148%
20	8.698	1119	1123	1125	rBV	78089	110427	2.69%	0.258%
21	8.745	1126	1131	1135	rVV	798920	1024930	24.98%	2.395%
22	8.804	1135	1141	1144	rVV4	89374	236590	5.77%	0.553%
23	8.839	1144	1147	1151	rVB	161506	218052	5.32%	0.509%
24	8.928	1159	1162	1166	rBV3	98436	143109	3.49%	0.334%
25	9.034	1176	1180	1182	rBV2	220782	336096	8.19%	0.785%
26	9.110	1190	1193	1197	rBV	228895	266714	6.50%	0.623%
27	9.151	1197	1200	1201	rBV	205170	211700	5.16%	0.495%
28	9.175	1201	1204	1208	rVB	607448	752282	18.34%	1.758%
29	9.234	1208	1214	1218	rBV	3140733	4102373	100.00%	9.584%
30	9.269	1218	1220	1223	rVB	45016	42877	1.05%	0.100%
31	9.310	1223	1227	1232	rBV	1709349	2349158	57.26%	5.488%
32	9.634	1277	1282	1289	rVV2	495829	928547	22.63%	2.169%
33	9.692	1289	1292	1295	rVB	89102	104375	2.54%	0.244%
34	9.781	1304	1307	1310	rBV3	47374	68301	1.66%	0.160%
35	9.839	1313	1317	1322	rVV	723515	995440	24.26%	2.326%
36	9.916	1325	1330	1334	rVB	883652	1168856	28.49%	2.731%

Sample Results: **BF140270.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.163	1369	1372	1377	rVB4	46122	62923	1.53%	0.147%
38	10.339	1397	1402	1407	rVB	132524	173998	4.24%	0.407%
39	10.563	1436	1440	1446	rVB	28037	41949	1.02%	0.098%
40	10.628	1446	1451	1458	rVV	417207	525180	12.80%	1.227%
41	10.704	1458	1464	1478	rVV	2315349	3041924	74.15%	7.107%
42	10.816	1479	1483	1492	rVB	53615	93274	2.27%	0.218%
43	11.263	1555	1559	1563	rBV2	28562	46680	1.14%	0.109%
44	11.404	1577	1583	1590	rBV	929867	1184906	28.88%	2.768%
45	11.469	1590	1594	1598	rVB2	47675	61763	1.51%	0.144%
46	11.933	1667	1673	1684	rBV	478874	762182	18.58%	1.781%
47	12.492	1763	1768	1774	rVB4	36368	73369	1.79%	0.171%
48	12.639	1786	1793	1802	rBV2	64412	166262	4.05%	0.388%
49	12.716	1802	1806	1818	rVB	75681	124366	3.03%	0.291%
50	12.851	1824	1829	1836	rVB	50199	85327	2.08%	0.199%
51	12.992	1847	1853	1858	rBV	2856046	3658449	89.18%	8.547%
52	13.904	2003	2008	2022	rVB2	97592	232375	5.66%	0.543%
53	14.051	2028	2033	2045	rVB	591954	832279	20.29%	1.944%
54	14.704	2141	2144	2151	rVB	30503	41084	1.00%	0.096%
55	15.563	2284	2290	2302	rVB	486848	770568	18.78%	1.800%

Sum of corrected areas: 42802668

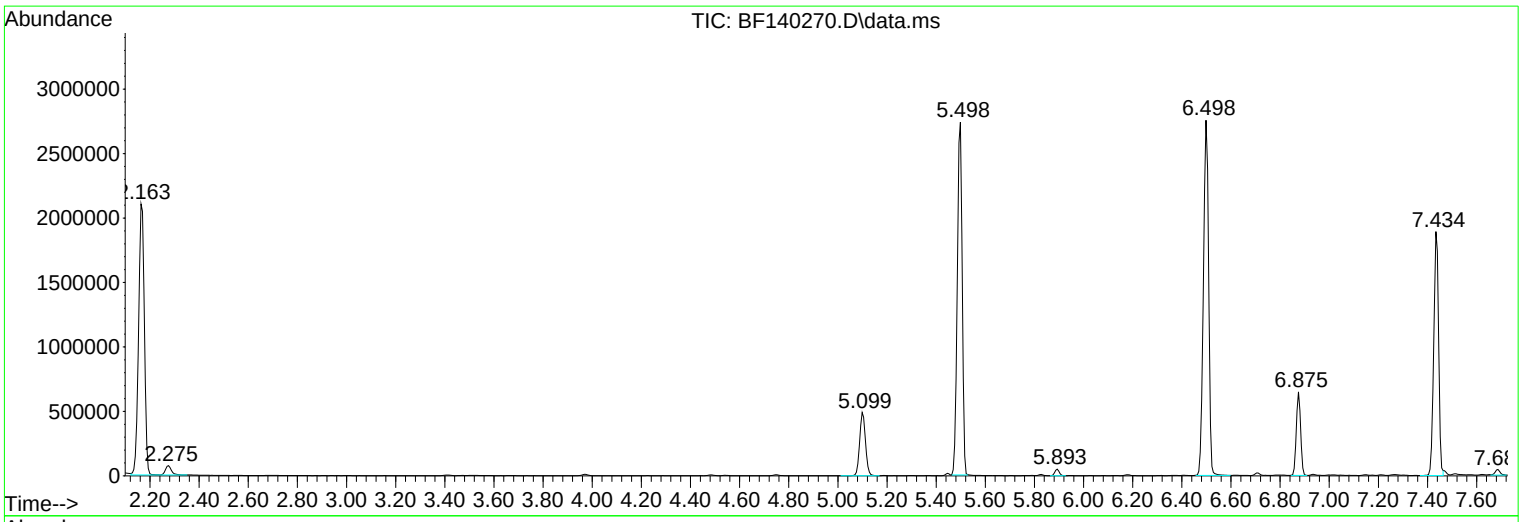
Sample Results: **BF140270.D**

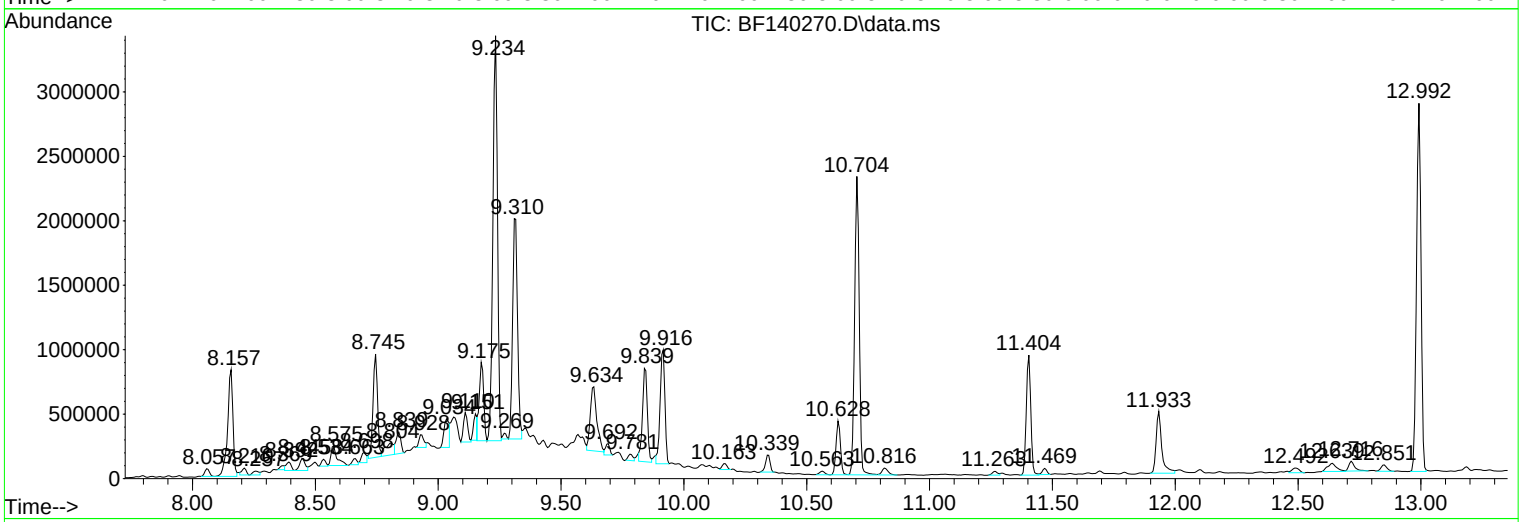
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

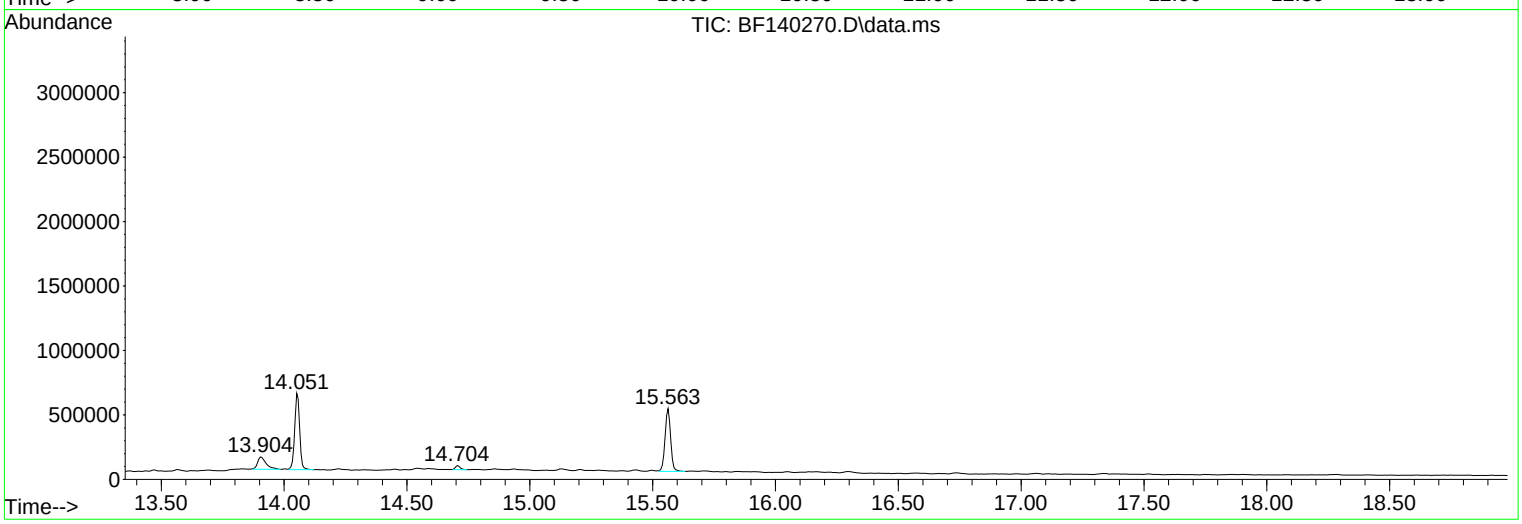
Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







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Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

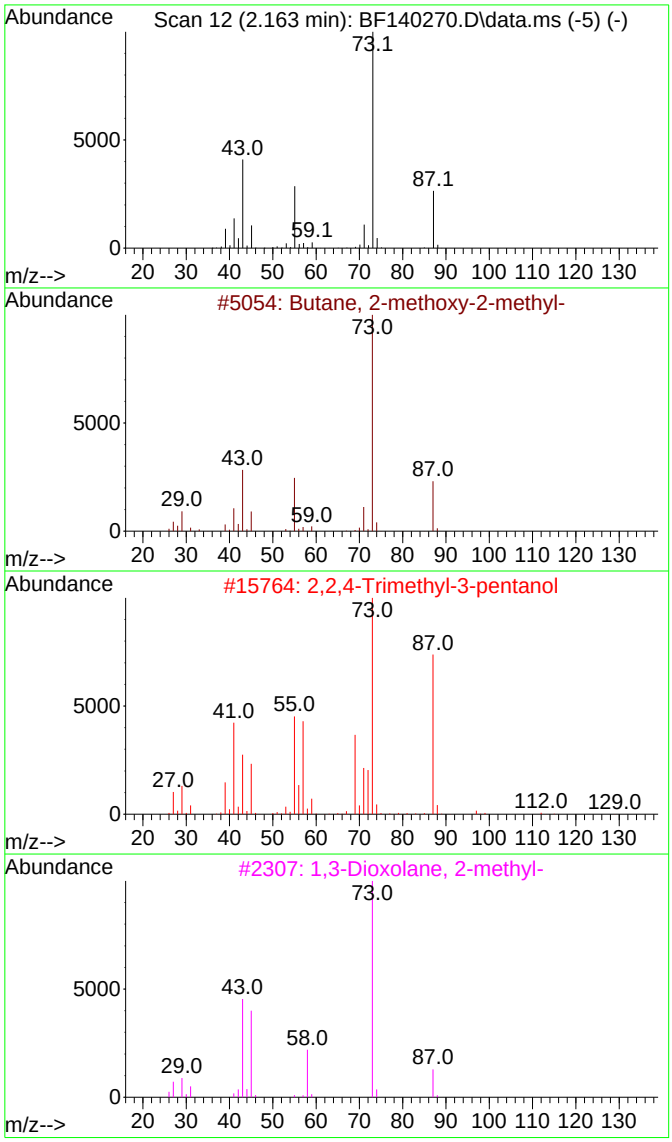
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

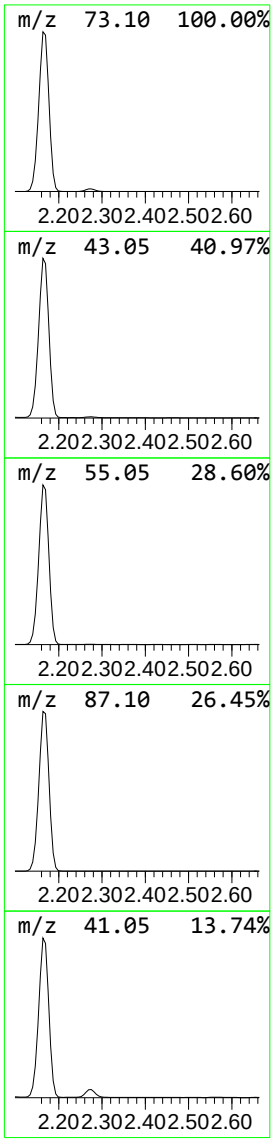
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	86.81 ng	3432550	1,4-Dichlorobenzene-d4	6.875

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	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

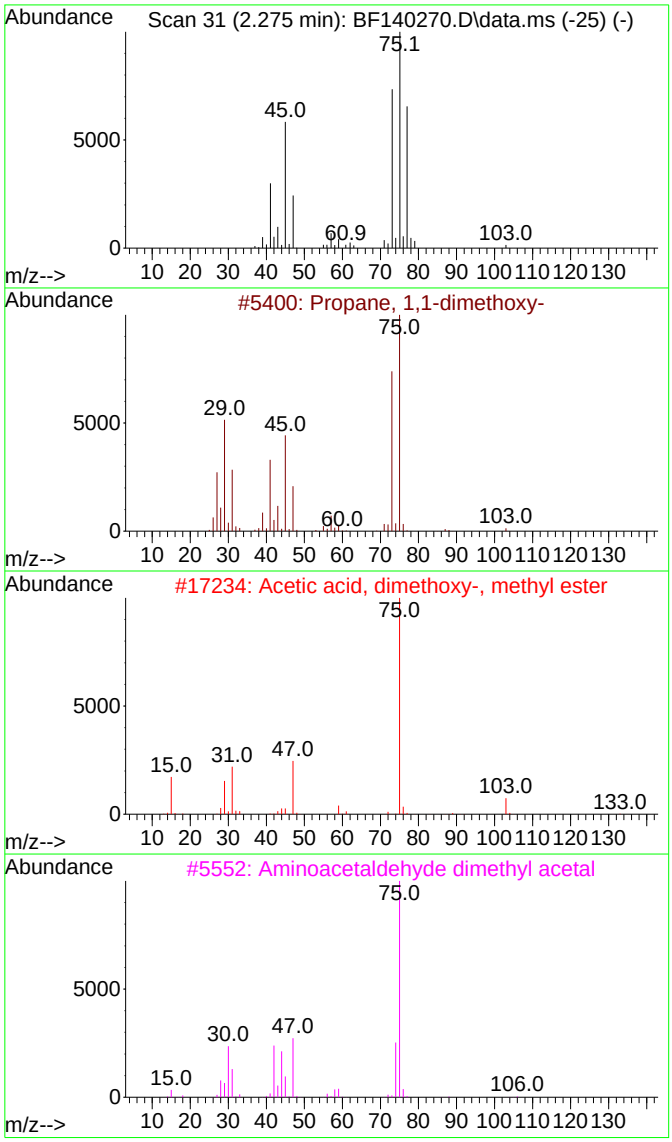
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

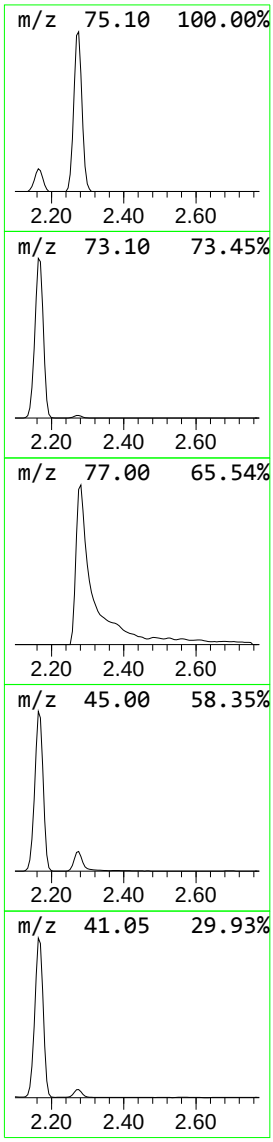
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Propane, 1,1-dimethoxy- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.275	3.12 ng	123318	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	59
2	Acetic acid, dimethoxy-, methyl ...	134	C5H10O4	000089-91-8	38
3	Aminoacetaldehyde dimethyl acetal	105	C4H11NO2	022483-09-6	23
4	Ethanethioamide	75	C2H5NS	000062-55-5	9
5	Ethanol, 2-methoxy-	76	C3H8O2	000109-86-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

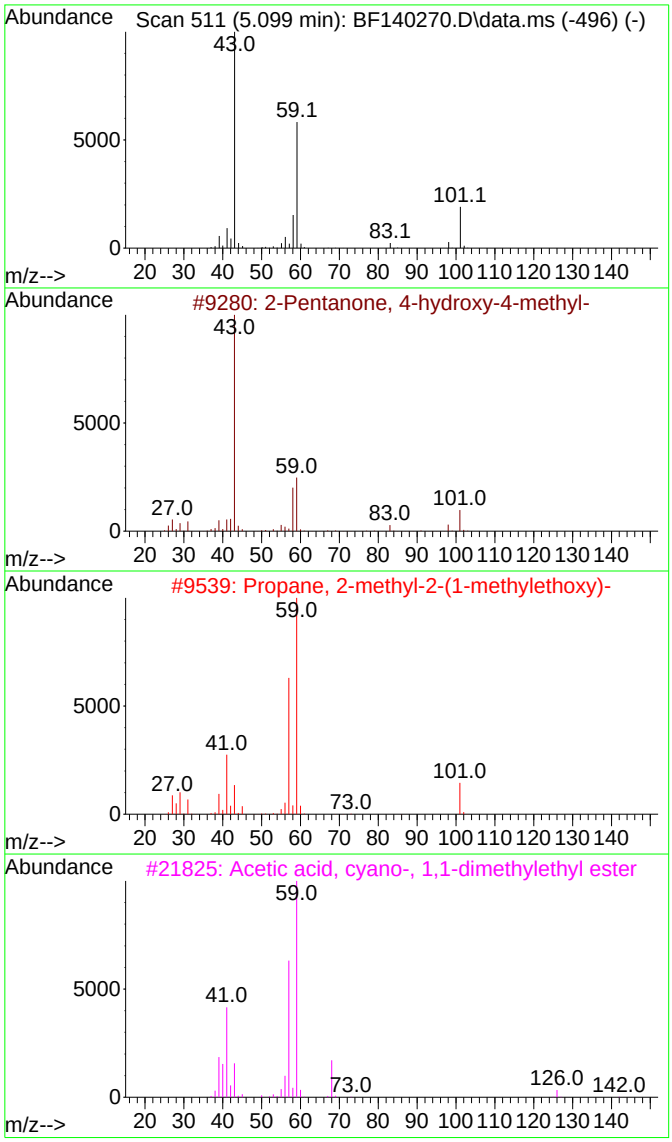
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

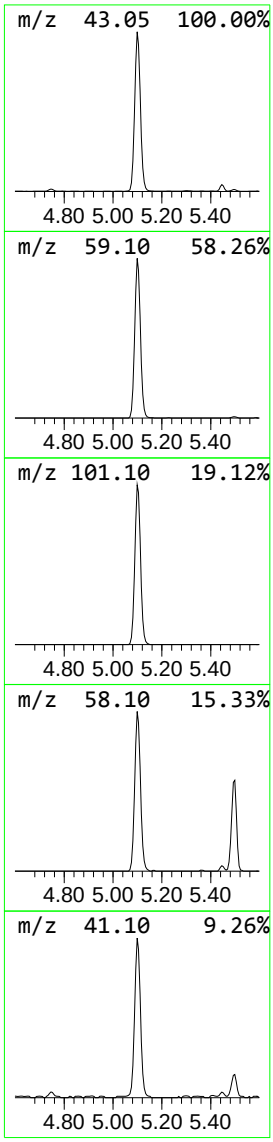
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.099	20.48 ng	809578	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	23
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

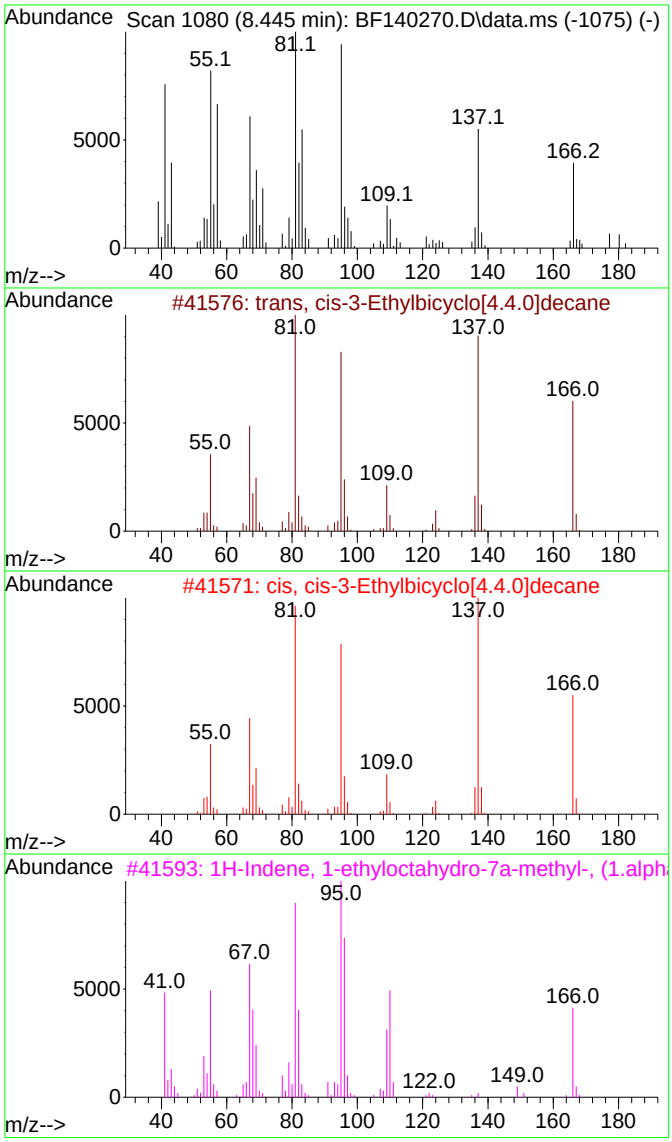
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

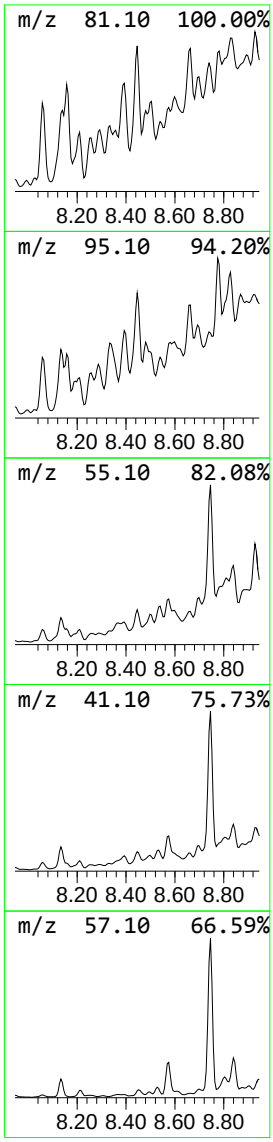
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 trans, cis-3-Ethylbicyclo[4... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.445	2.39 ng	149514	Naphthalene-d8	8.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans, cis-3-Ethylbicyclo[4.4.0]...	166	C12H22	066660-43-3	90
2	cis, cis-3-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-42-2	81
3	1H-Indene, 1-ethyloctahydro-7a-m...	166	C12H22	056324-71-1	70
4	cis, cis-2-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-40-0	62
5	trans, cis-2-Ethylbicyclo[4.4.0]...	166	C12H22	066660-39-7	62





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

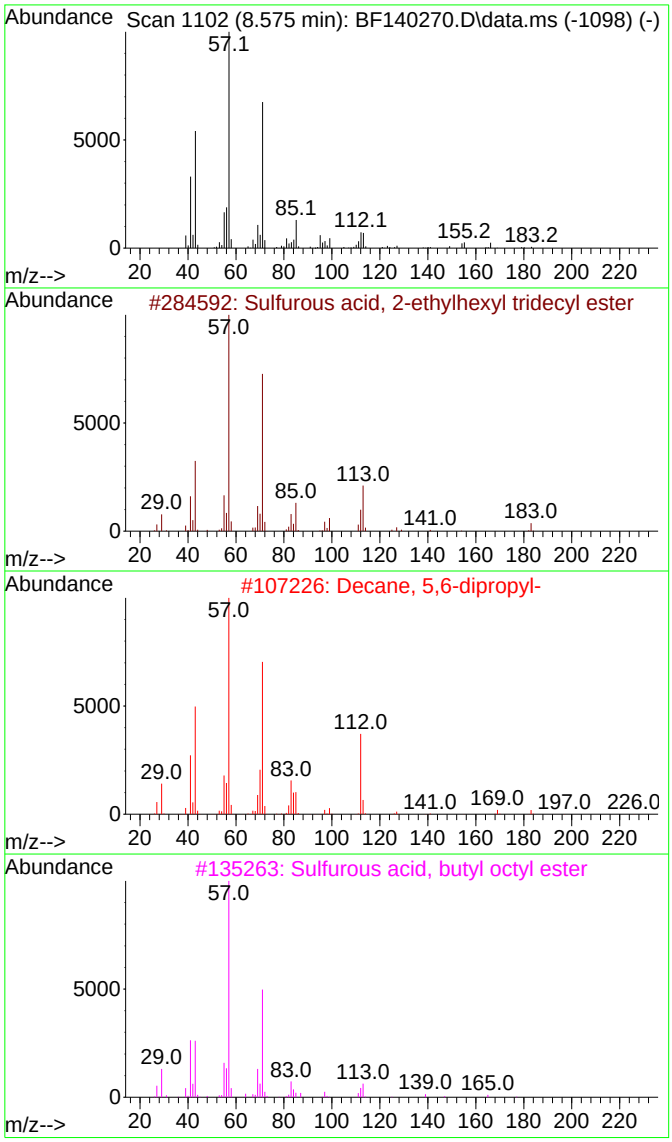
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

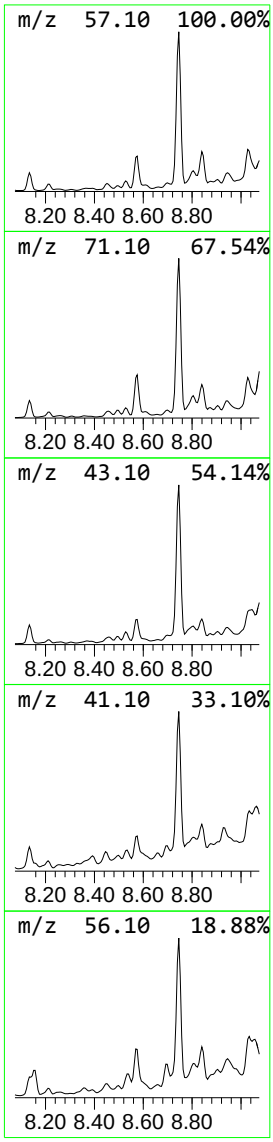
****

Peak Number 5 Sulfurous acid, 2-ethylhexy... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.575	4.20 ng	262957	Naphthalene-d8	8.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, 2-ethylhexyl tri...	376	C21H44O3S	1000309-19-6	78
2	Decane, 5,6-dipropyl-	226	C16H34	119209-20-0	72
3	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	72
4	Sulfurous acid, dodecyl 2-ethylh...	362	C20H42O3S	1000309-19-5	72
5	Heptadecane, 2,6-dimethyl-	268	C19H40	054105-67-8	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

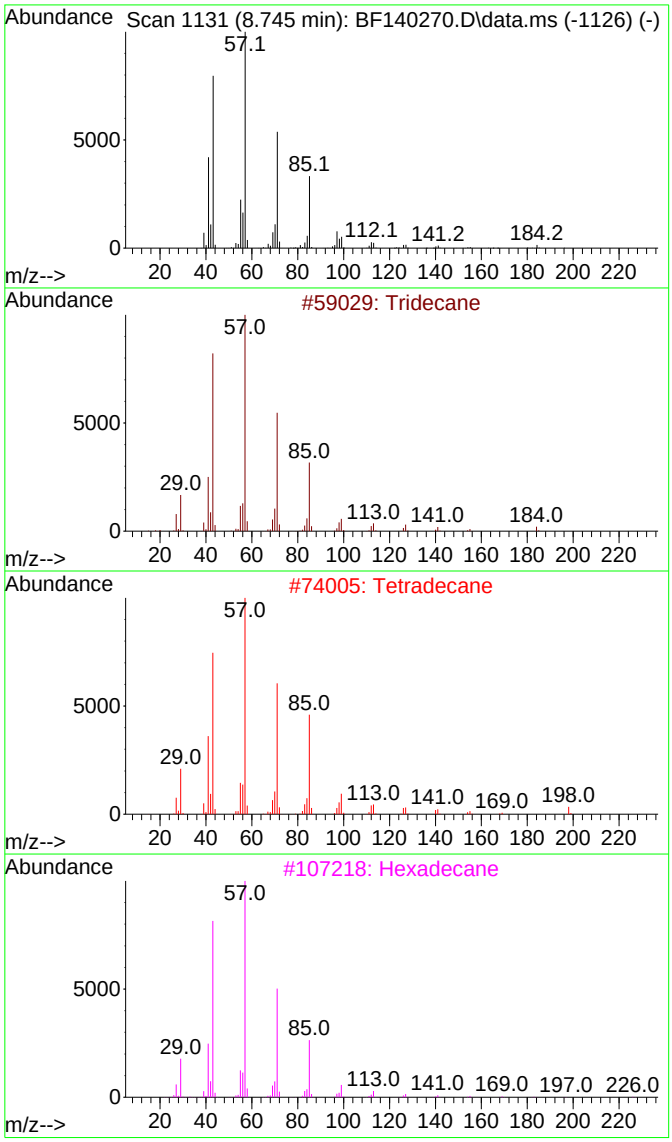
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

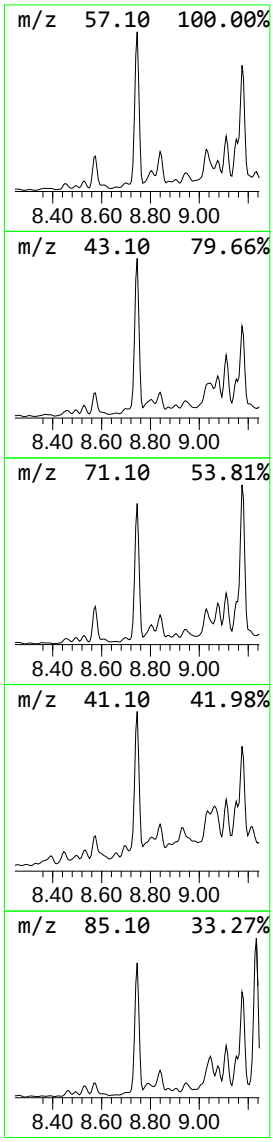
****

Peak Number 6 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.745	16.36 ng	1024930	Naphthalene-d8	8.157

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	Hexadecane	226	C16H34	000544-76-3	86
4	Decane, 2,3,5-trimethyl-	184	C13H28	062238-11-3	78
5	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	74





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Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

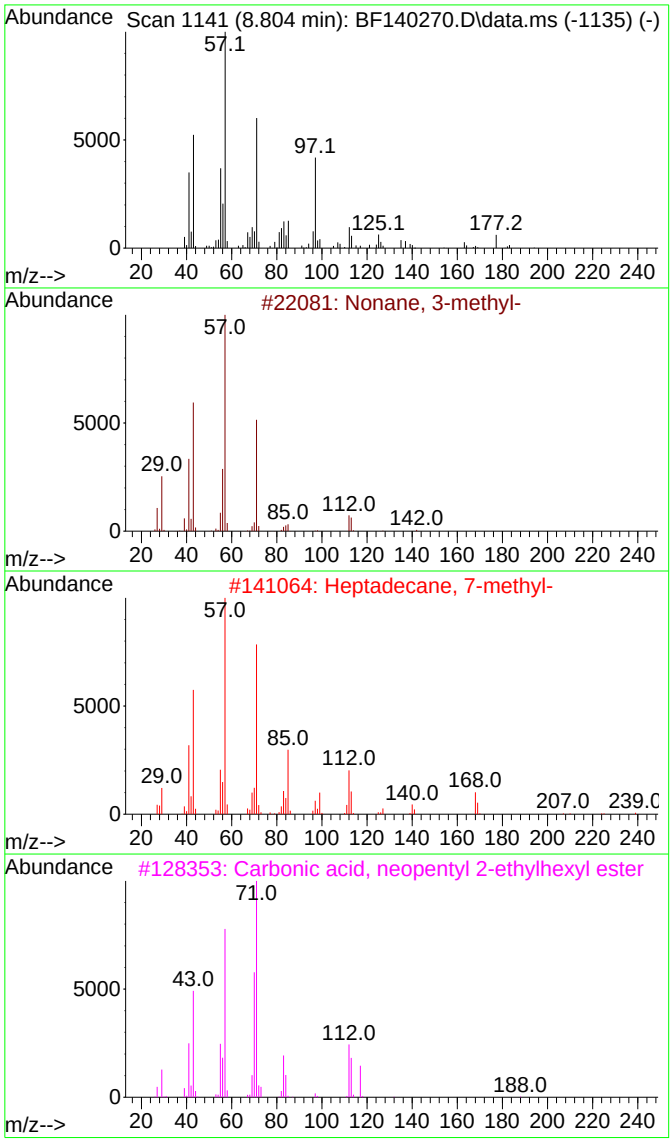
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

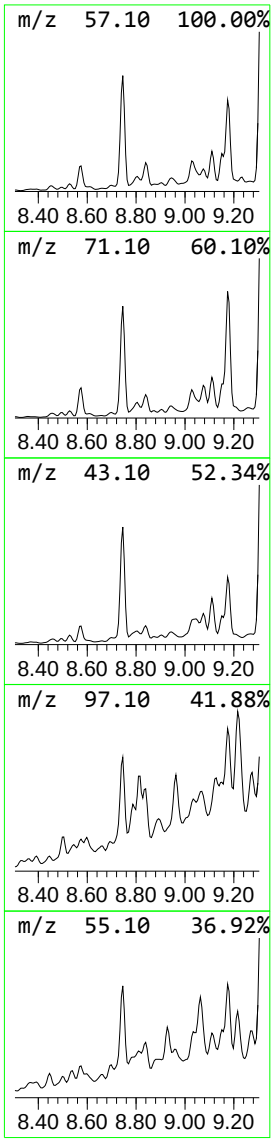
****

Peak Number 7 unknown8.804 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.804	3.78 ng	236590	Naphthalene-d8	8.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-	142	C10H22	005911-04-6	47
2	Heptadecane, 7-methyl-	254	C18H38	020959-33-5	43
3	Carbonic acid, neopentyl 2-ethyl...	244	C14H28O3	1000357-85-7	38
4	6-Methyl-2-heptanol, 2-methylpro...	200	C12H24O2	1000447-36-7	38
5	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	38





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Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

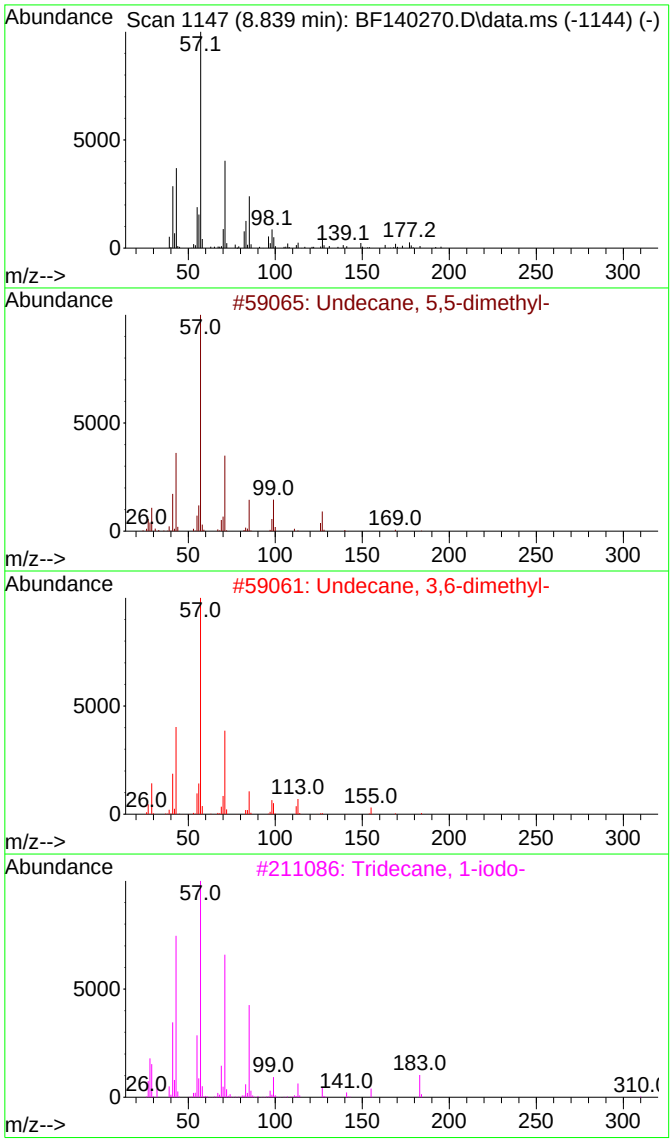
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

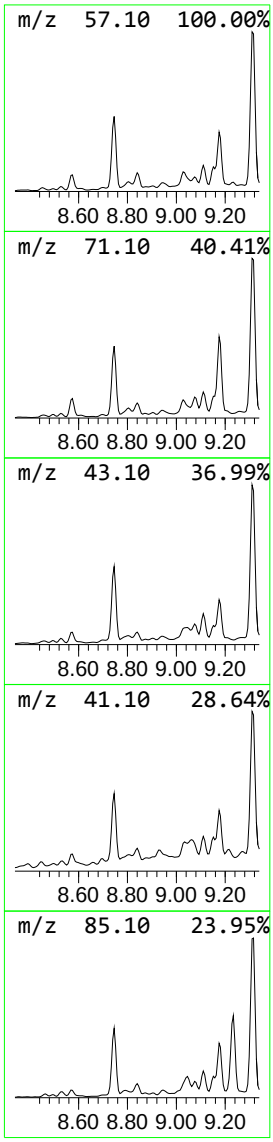
****

Peak Number 8 Undecane, 5,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.839	3.48 ng	218052	Naphthalene-d8	8.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5,5-dimethyl-	184	C13H28	017312-73-1	64
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	53
3	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	53
4	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	53
5	Dodecane, 6-methyl-	184	C13H28	006044-71-9	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140270.D
Acq On : 07 Nov 2024 13:07
Operator : RC/JU
Sample : P4718-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

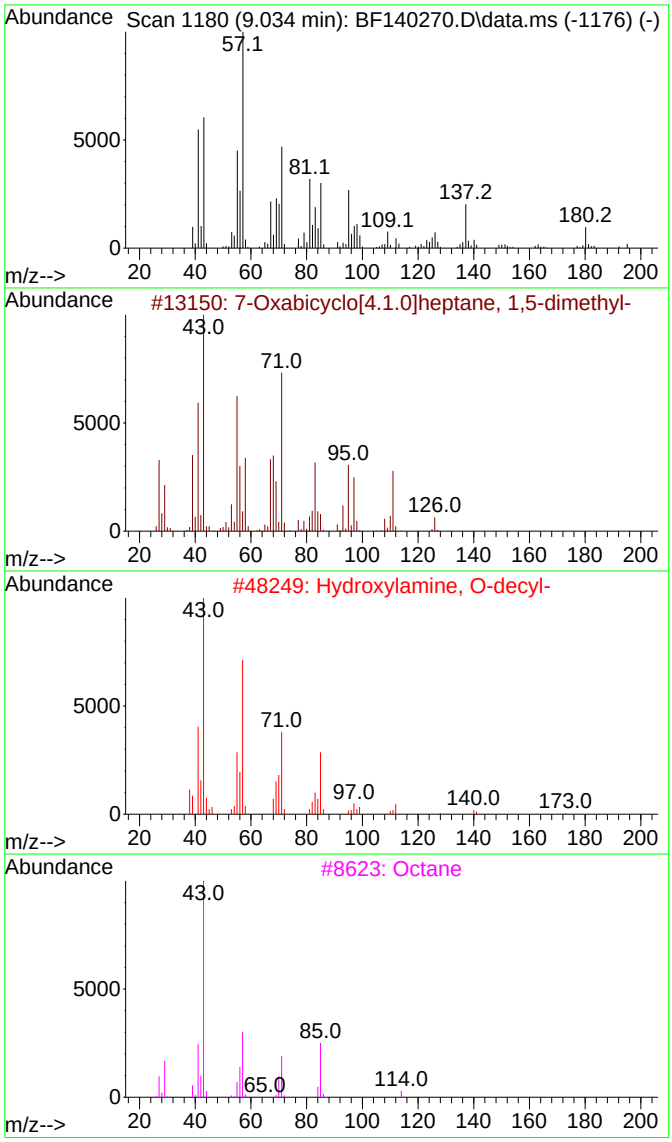
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

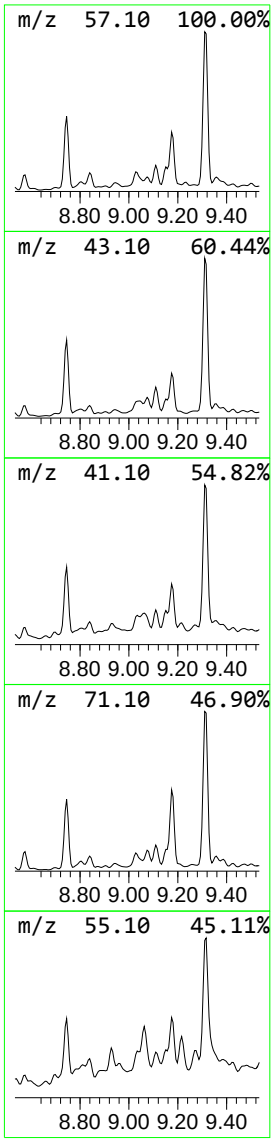
****

Peak Number 9 unknown9.034 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.034	5.37 ng	336096	Naphthalene-d8	8.157

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Oxabicyclo[4.1.0]heptane, 1,5-...	126	C8H14O	162239-52-3	45
2	Hydroxylamine, O-decyl-	173	C10H23NO	029812-79-1	43
3	Octane	114	C8H18	000111-65-9	43
4	Carbonic acid, dodecyl vinyl ester	256	C15H28O3	1000382-54-8	43
5	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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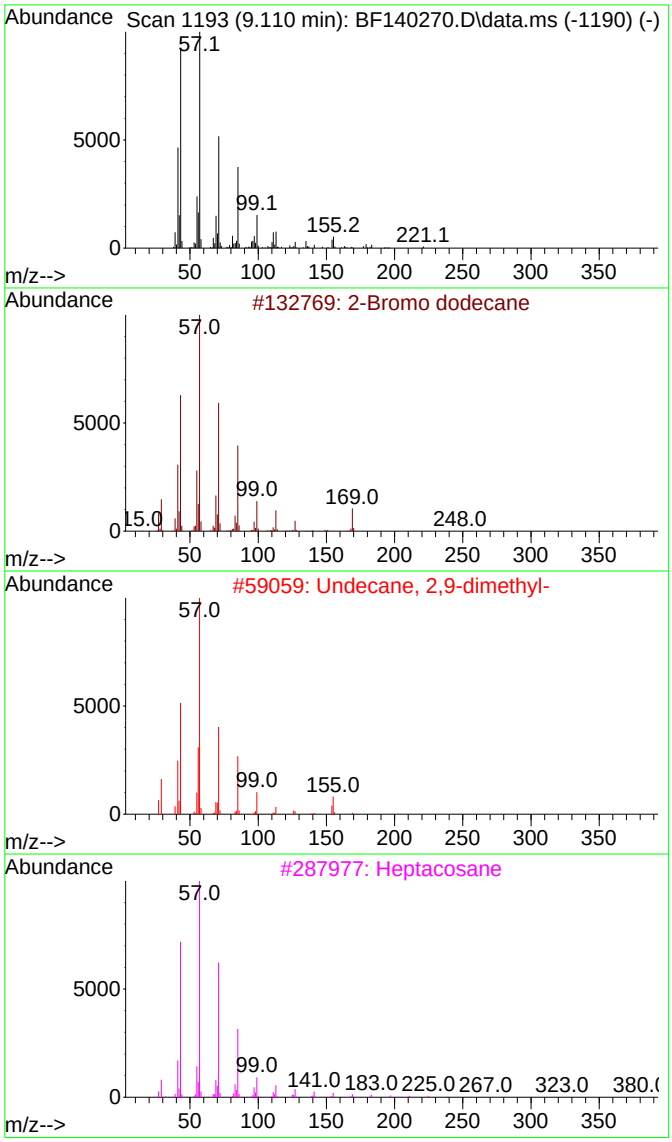
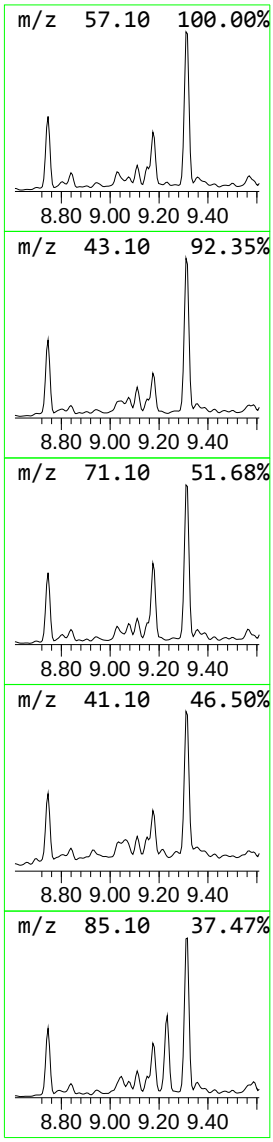
Peak Number 10 2-Bromo dodecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.110	4.56 ng	266714	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Bromo dodecane	248	C12H25Br	013187-99-0	86
2	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	80
3	Heptacosane	380	C27H56	000593-49-7	80
4	1-Iodoundecane	282	C11H23I	004282-44-4	72
5	Octacosane	394	C28H58	000630-02-4	72





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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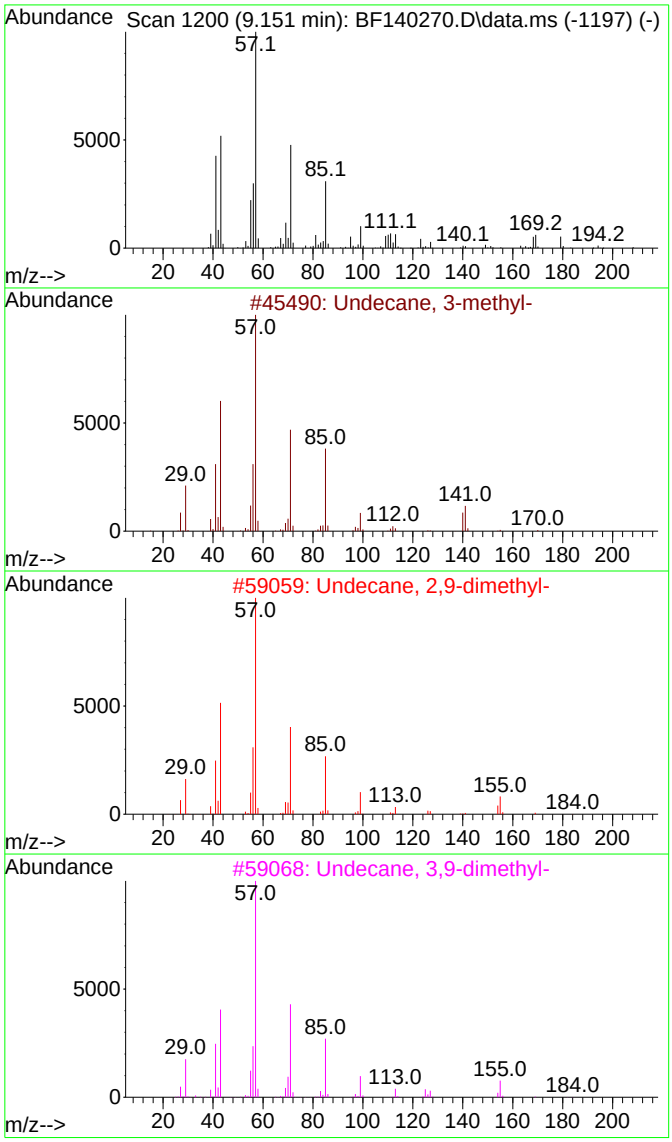
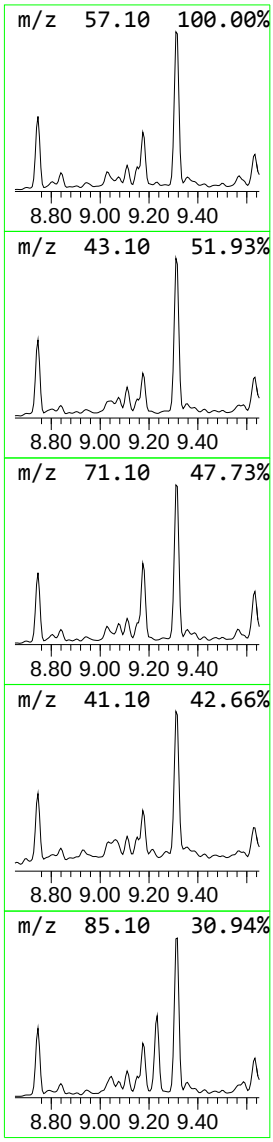
Peak Number 11 Undecane, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.151	3.62 ng	211700	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3-methyl-	170	C12H26	001002-43-3	74
2	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	64
3	Undecane, 3,9-dimethyl-	184	C13H28	017301-31-4	64
4	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	64
5	Undecane, 5-methyl-	170	C12H26	001632-70-8	58





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

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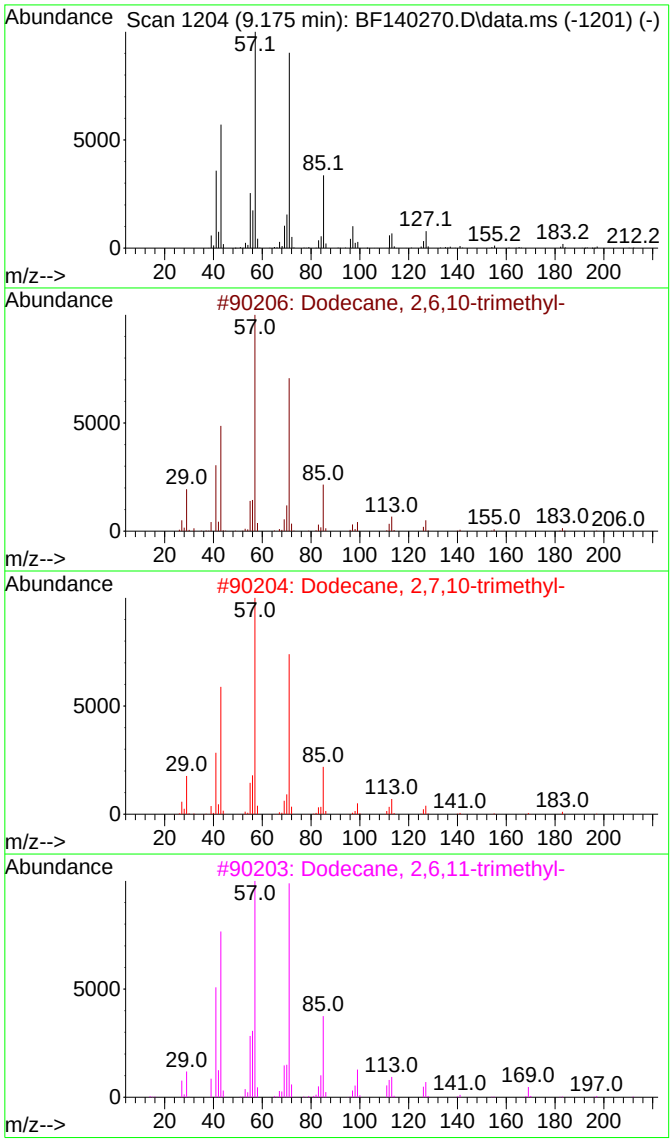
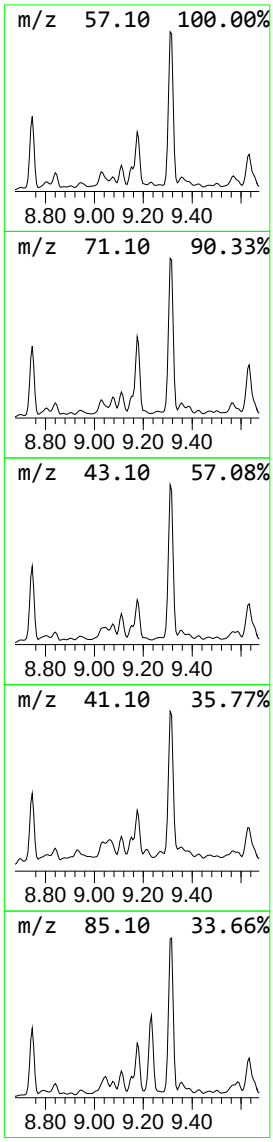
Peak Number 12 Dodecane, 2,6,10-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.175	12.87 ng	752282	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	86
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
3	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	80
4	Sulfurous acid, pentyl tetradecy...	348	C19H40O3S	1010309-14-7	72
5	Sulfurous acid, hexyl pentyl ester	236	C11H24O3S	1000309-14-1	59





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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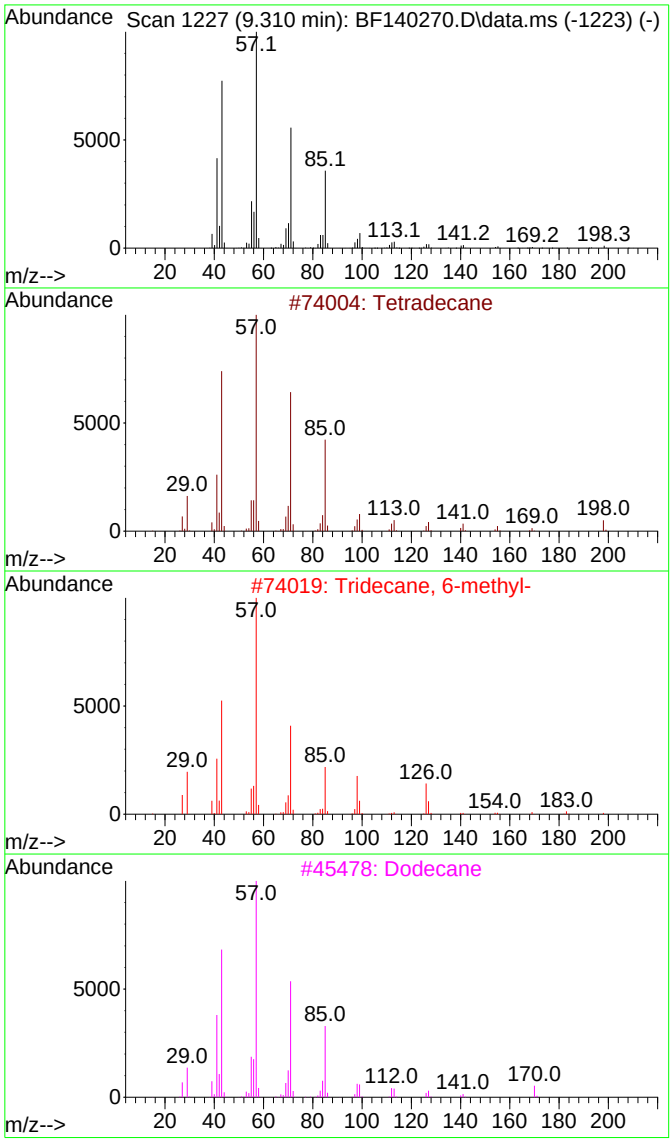
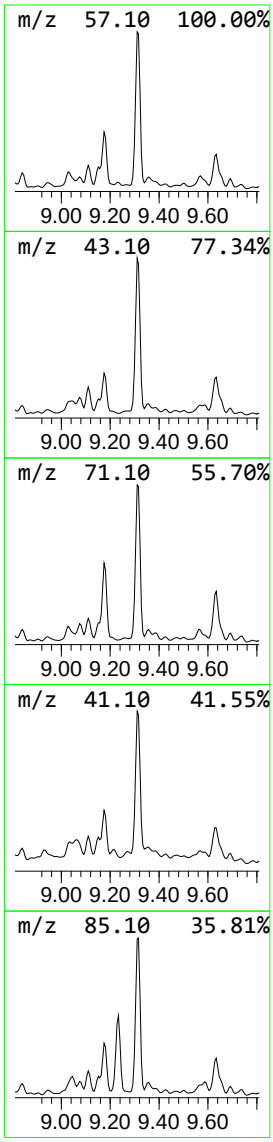
Peak Number 13 Tetradecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.310	40.20 ng	2349160	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	95
2	Tridecane, 6-methyl-	198	C14H30	013287-21-3	91
3	Dodecane	170	C12H26	000112-40-3	90
4	Hexadecane	226	C16H34	000544-76-3	90
5	Tridecane, 7-methyl-	198	C14H30	026730-14-3	81





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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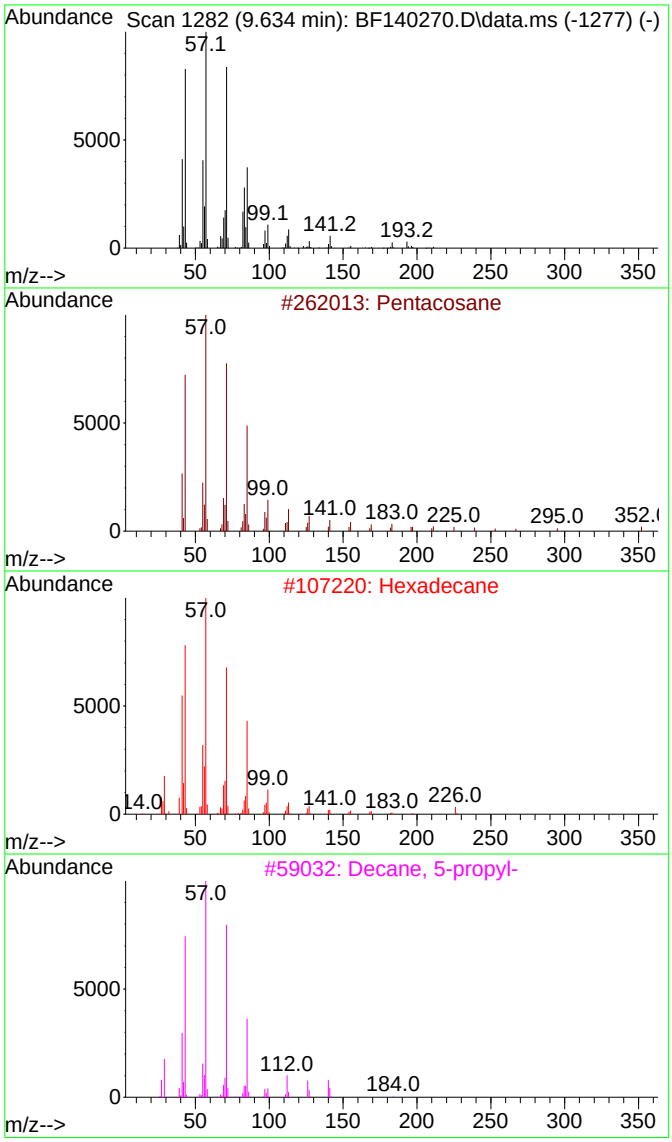
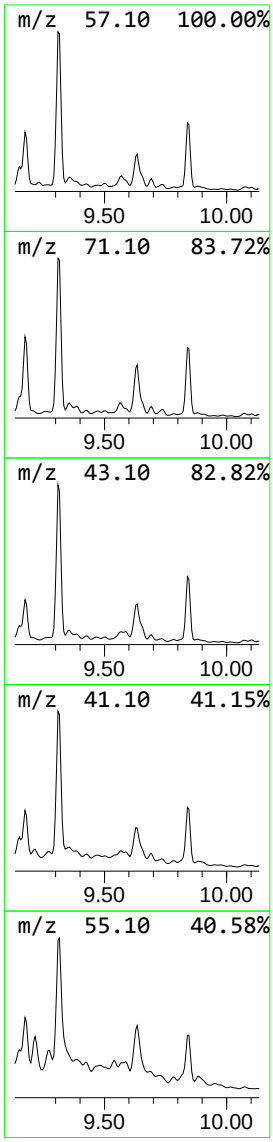
Peak Number 14 Pentacosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.634	15.89 ng	928547	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacosane	352	C25H52	000629-99-2	86
2	Hexadecane	226	C16H34	000544-76-3	83
3	Decane, 5-propyl-	184	C13H28	017312-62-8	81
4	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	80
5	2,6,10-Trimethyltridecane	226	C16H34	003891-99-4	80





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

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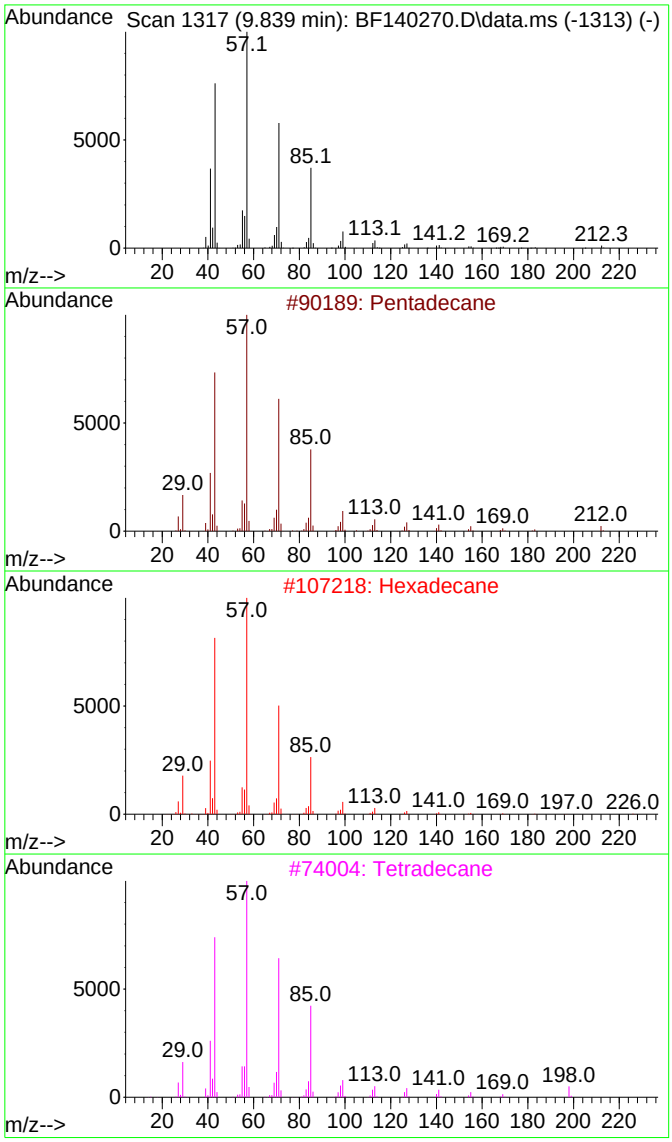
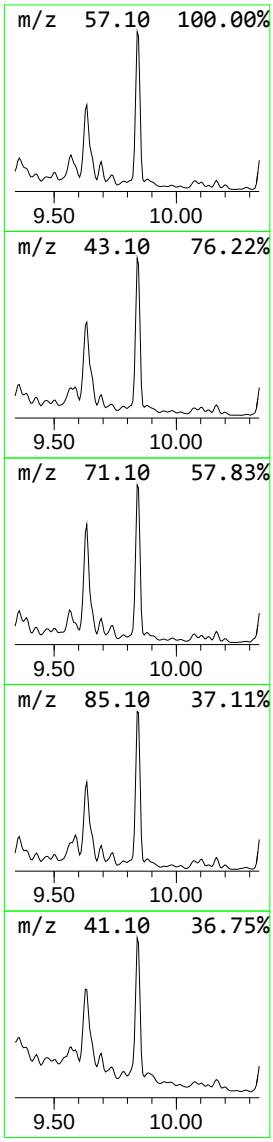
Peak Number 15 Pentadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.839	17.03 ng	995440	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	94
2	Hexadecane	226	C16H34	000544-76-3	90
3	Tetradecane	198	C14H30	000629-59-4	90
4	Tridecane	184	C13H28	000629-50-5	90
5	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	78





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

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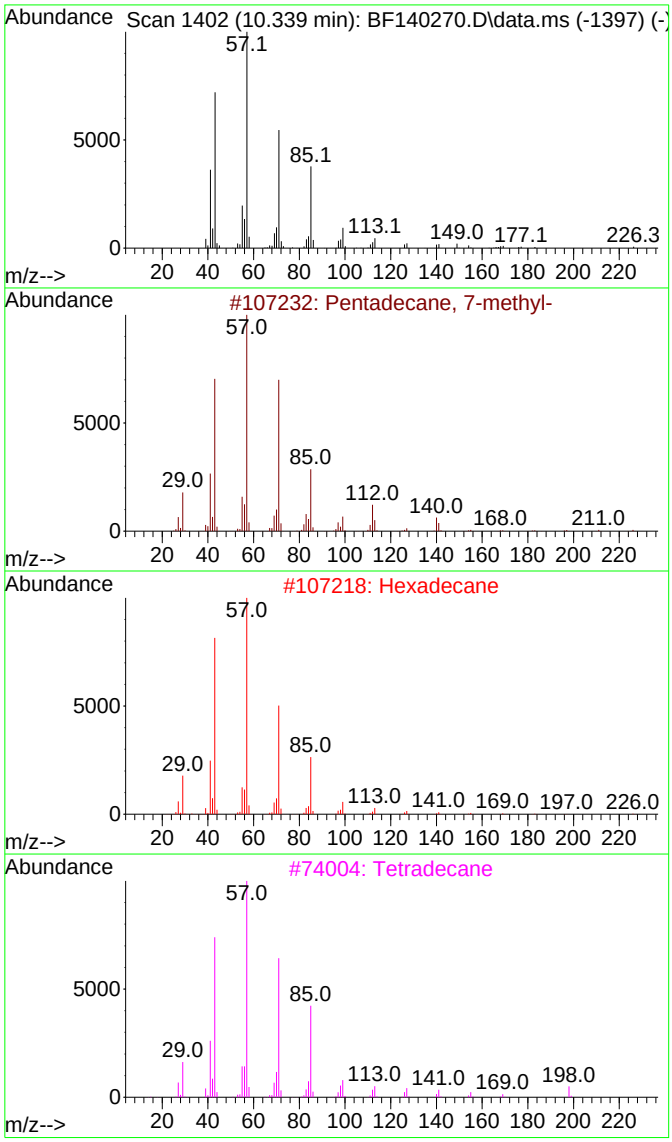
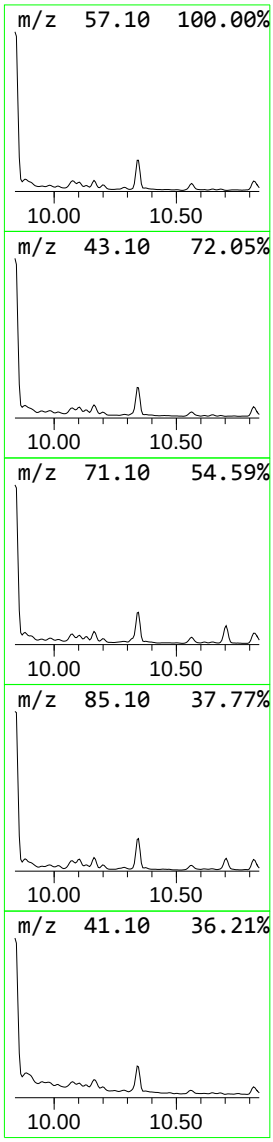
Peak Number 16 Pentadecane, 7-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.339	2.98 ng	173998	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	91
2	Hexadecane	226	C16H34	000544-76-3	90
3	Tetradecane	198	C14H30	000629-59-4	86
4	Pentadecane	212	C15H32	000629-62-9	86
5	Nonadecane	268	C19H40	000629-92-5	80





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

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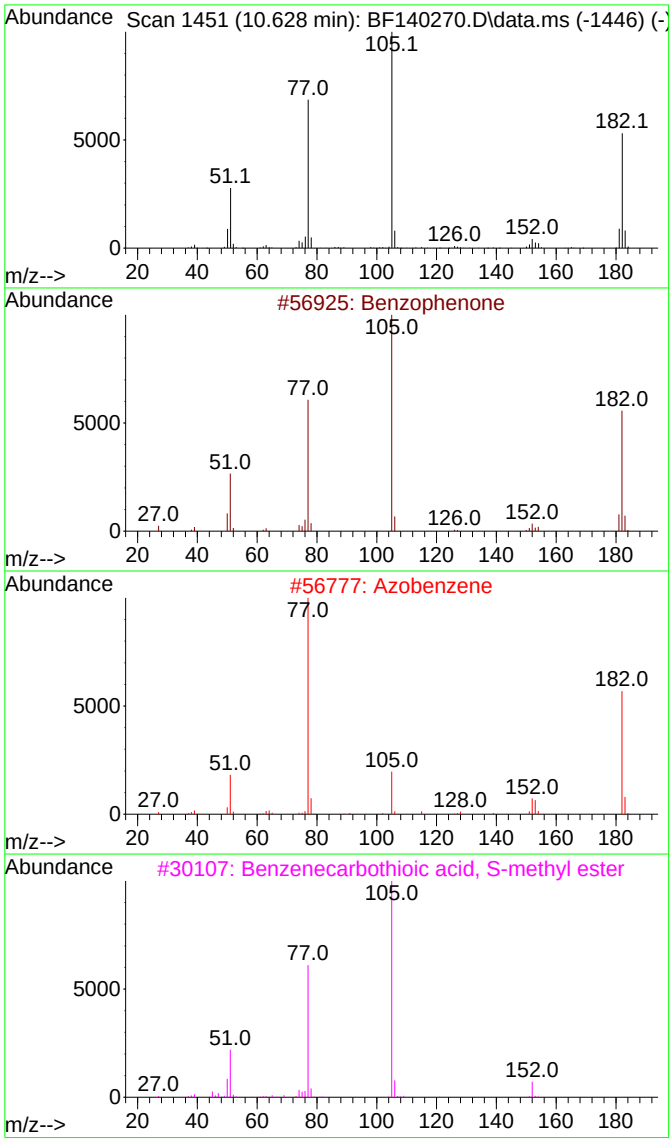
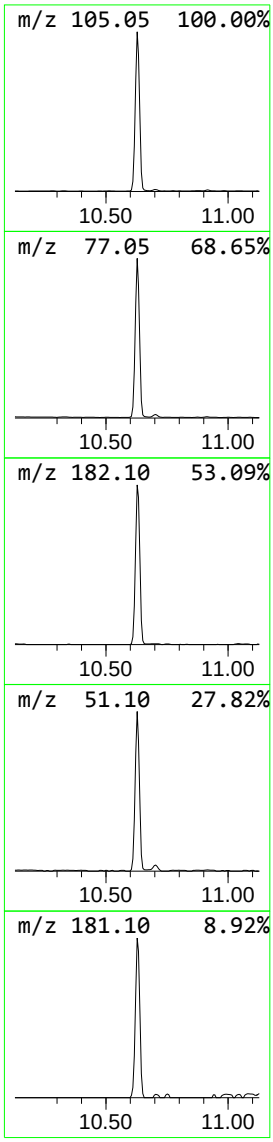
Peak Number 17 Benzophenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	8.99 ng	525180	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	64
3	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	58
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Ethanone, 2,2,2-trifluoro-1-phenyl-	174	C8H5F3O	000434-45-7	47





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

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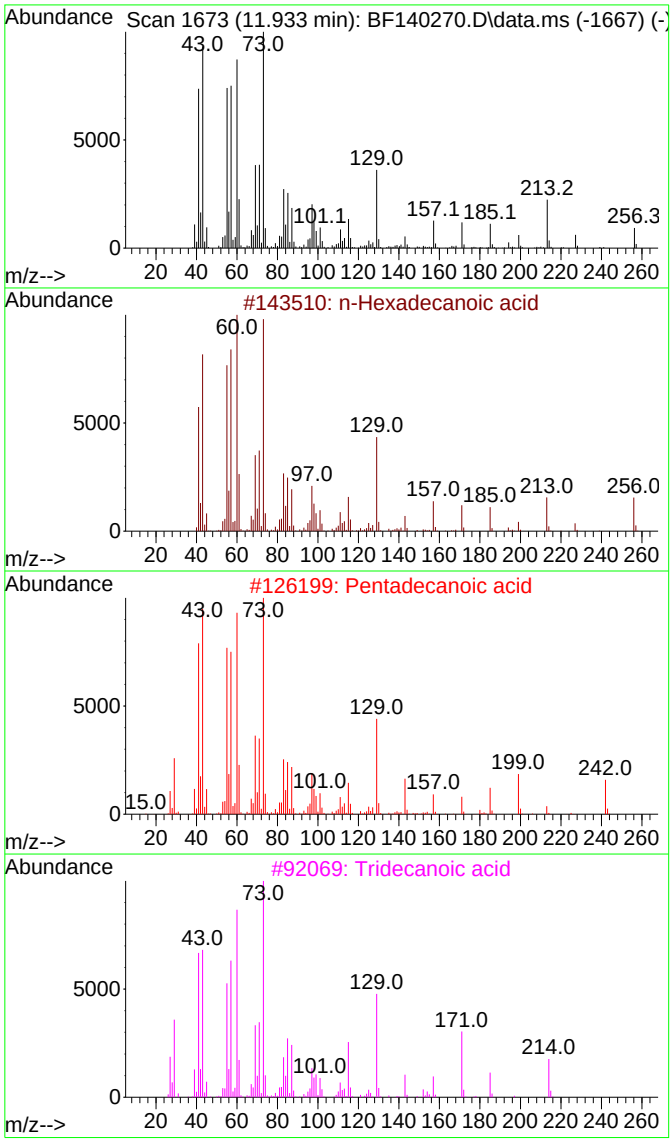
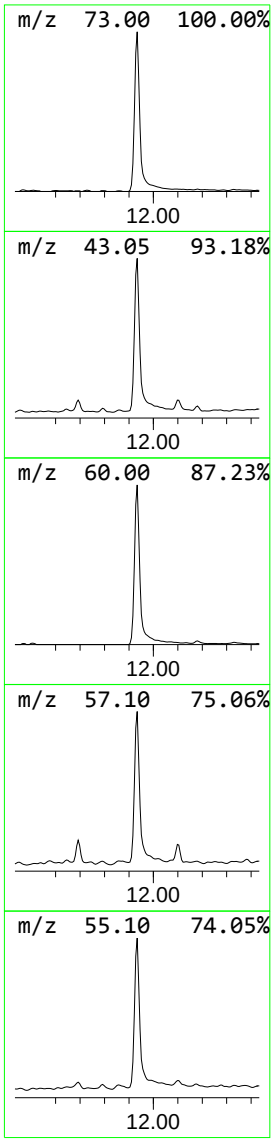
Peak Number 18 n-Hexadecanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	12.86 ng	762182	Phenanthrene-d10	11.404

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	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	89
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	55





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

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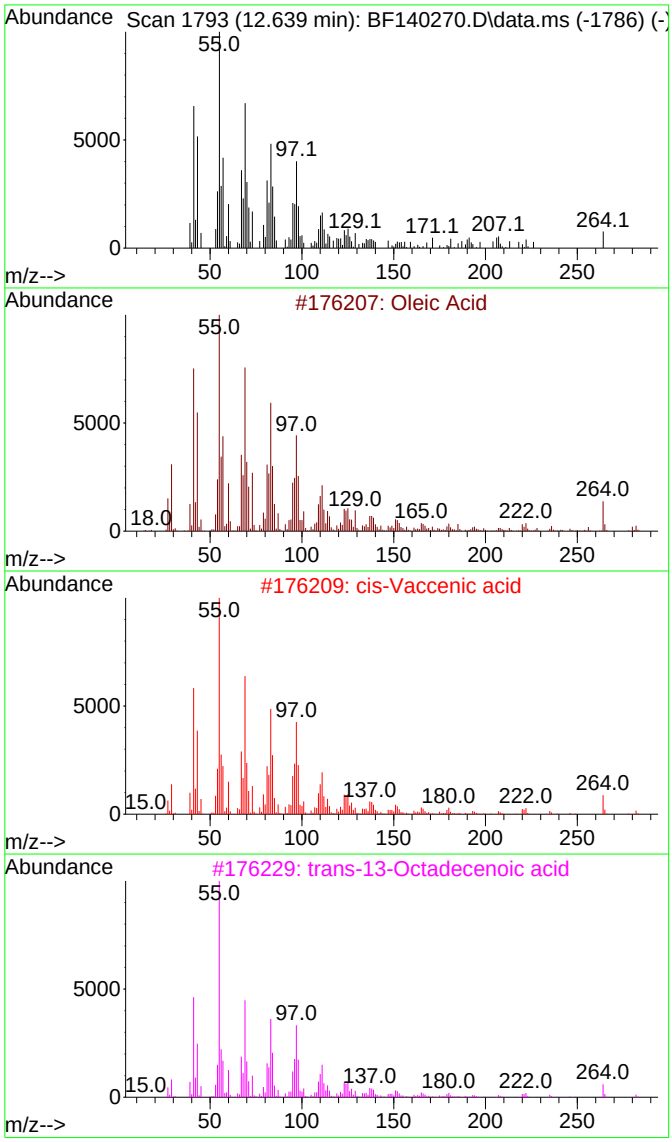
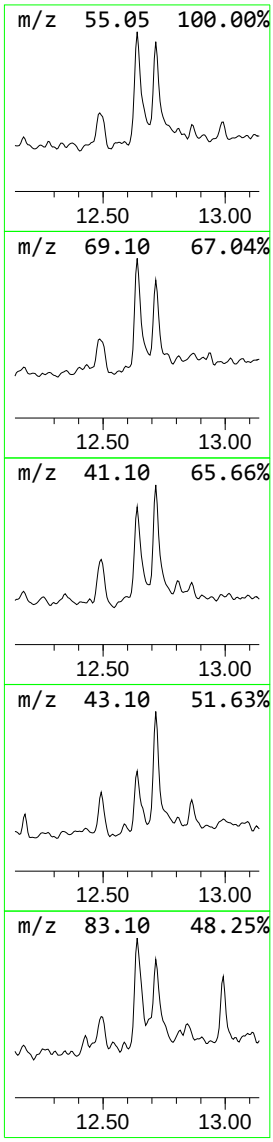
Peak Number 19 Oleic Acid Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.639	2.81 ng	166262	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oleic Acid	282	C18H34O2	000112-80-1	91
2	cis-Vaccenic acid	282	C18H34O2	000506-17-2	90
3	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	87
4	cis-7-Hexadecenoic acid	254	C16H30O2	002416-19-5	87
5	cis-13-Octadecenoic acid	282	C18H34O2	013126-39-1	83





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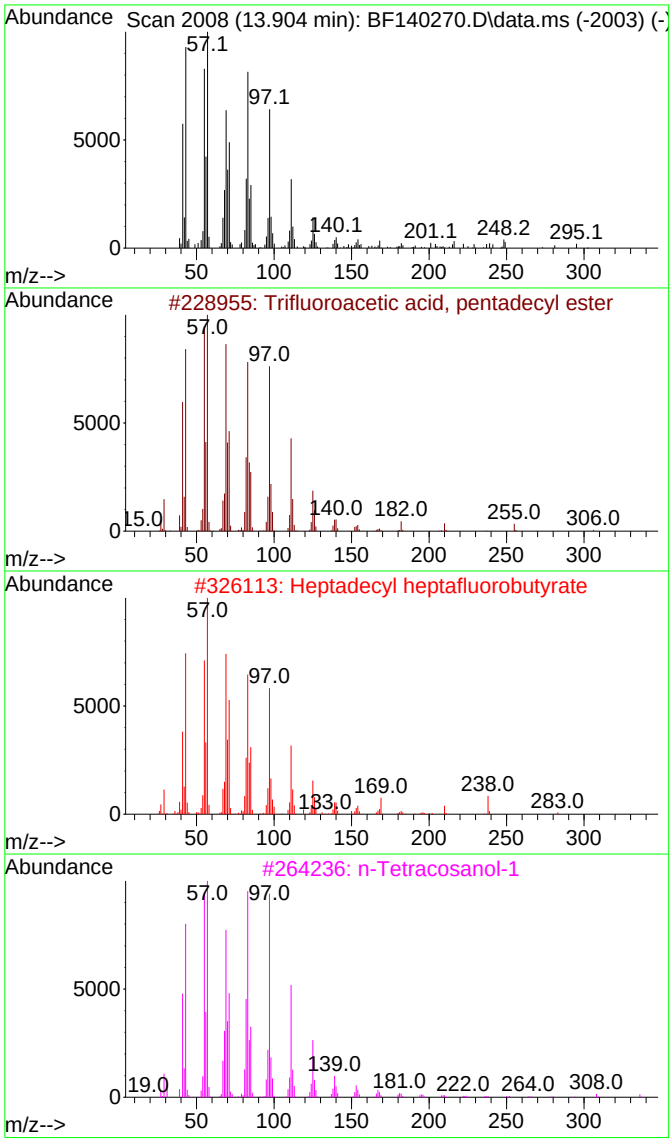
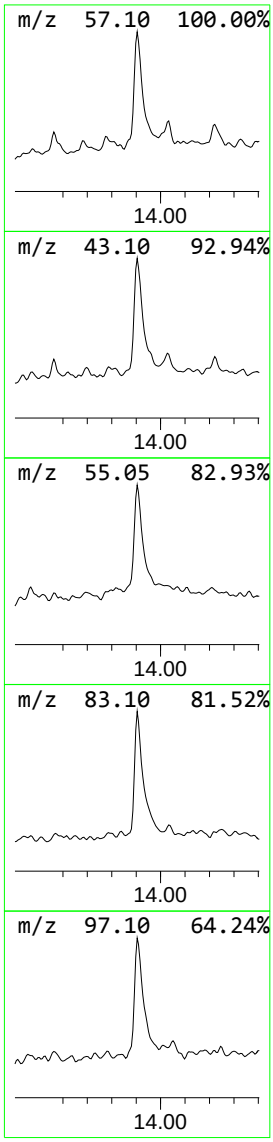
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Trifluoroacetic acid, penta... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	5.58 ng	232375	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	94
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94
5	Behenic alcohol	326	C22H46O	000661-19-8	94





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ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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...	2.163	86.8	ng	3432550	1	6.875	790786	20.0
Propane, 1,1-di...	2.275	3.1	ng	123318	1	6.875	790786	20.0
2-Pentanone, 4-...	5.099	20.5	ng	809578	1	6.875	790786	20.0
trans, cis-3-Et...	8.445	2.4	ng	149514	2	8.157	1252740	20.0
Sulfurous acid,...	8.575	4.2	ng	262957	2	8.157	1252740	20.0
Tridecane	8.745	16.4	ng	1024930	2	8.157	1252740	20.0
unknown8.804	8.804	3.8	ng	236590	2	8.157	1252740	20.0
Undecane, 5,5-d...	8.839	3.5	ng	218052	2	8.157	1252740	20.0
unknown9.034	9.034	5.4	ng	336096	2	8.157	1252740	20.0
2-Bromo dodecane	9.110	4.6	ng	266714	3	9.916	1168860	20.0
Undecane, 3-met...	9.151	3.6	ng	211700	3	9.916	1168860	20.0
Dodecane, 2,6,1...	9.175	12.9	ng	752282	3	9.916	1168860	20.0
Tetradecane	9.310	40.2	ng	2349160	3	9.916	1168860	20.0
Pentacosane	9.634	15.9	ng	928547	3	9.916	1168860	20.0
Pentadecane	9.839	17.0	ng	995440	3	9.916	1168860	20.0
Pentadecane, 7-...	10.339	3.0	ng	173998	3	9.916	1168860	20.0
Benzophenone	10.628	9.0	ng	525180	3	9.916	1168860	20.0
n-Hexadecanoic ...	11.933	12.9	ng	762182	4	11.404	1184910	20.0
Oleic Acid	12.639	2.8	ng	166262	4	11.404	1184910	20.0
Trifluoroacetic...	13.904	5.6	ng	232375	5	14.051	832279	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Time: Nov 07 14:06:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

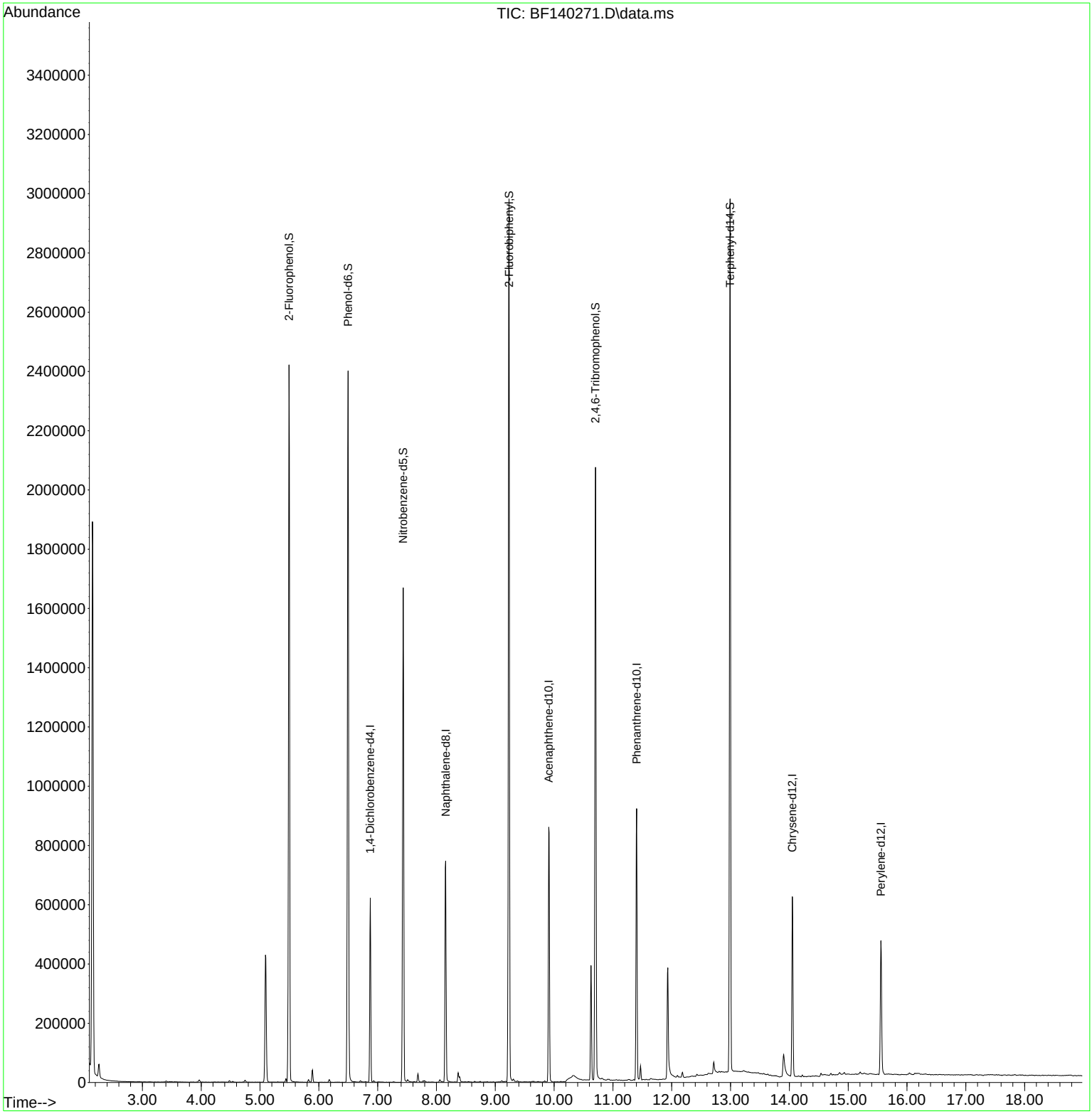
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	123660	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	467420	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	268928	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	499705	20.000	ng	0.00
76) Chrysene-d12	14.051	240	296704	20.000	ng	-0.01
86) Perylene-d12	15.557	264	275946	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	888696	119.097	ng	0.00
7) Phenol-d6	6.498	99	1140564	118.835	ng	0.00
23) Nitrobenzene-d5	7.434	82	737853	78.484	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	355130	133.597	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1329473	78.940	ng	0.00
79) Terphenyl-d14	12.992	244	1475896	81.486	ng	0.00
Target Compounds						Qvalue

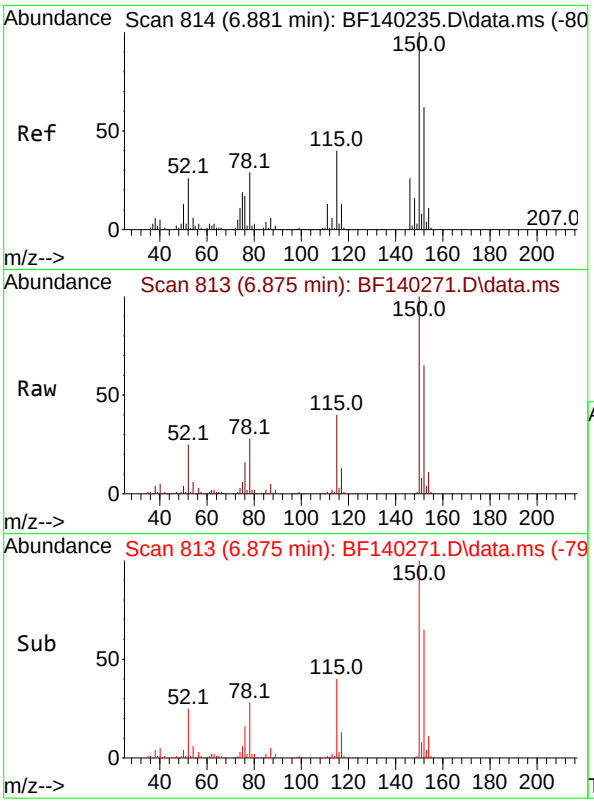
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Time: Nov 07 14:06:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



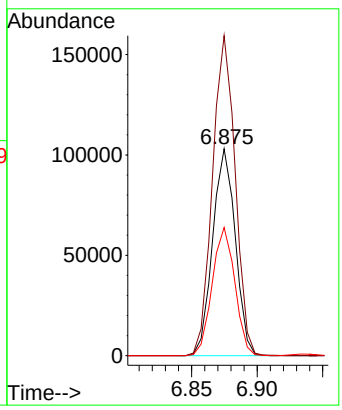


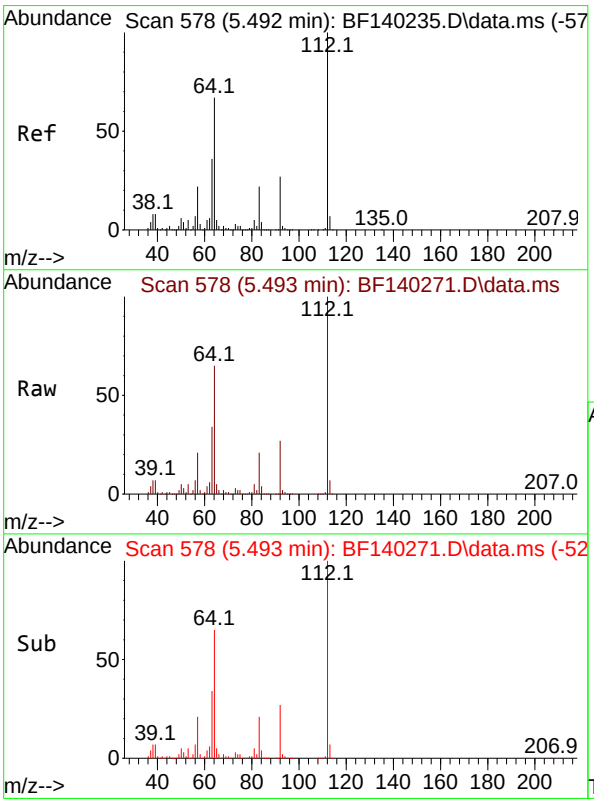
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:152 Resp: 123660

Ion	Ratio	Lower	Upper
152	100		
150	154.6	129.4	194.2
115	61.9	51.5	77.3

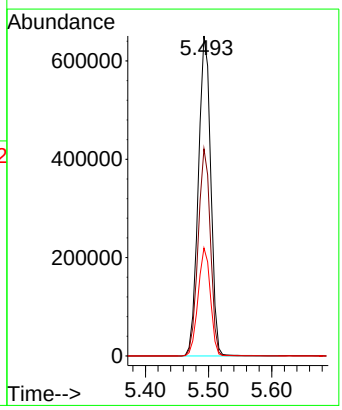


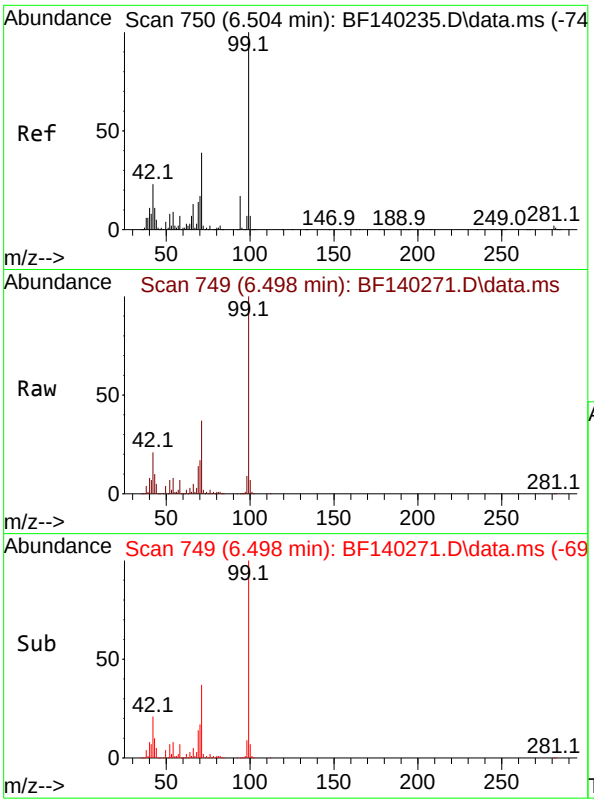


#5
2-Fluorophenol
Concen: 119.097 ng
RT: 5.493 min Scan# 578
Delta R.T. 0.000 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:112 Resp: 888696

Ion	Ratio	Lower	Upper
112	100		
64	64.8	53.4	80.2
63	33.7	28.9	43.3



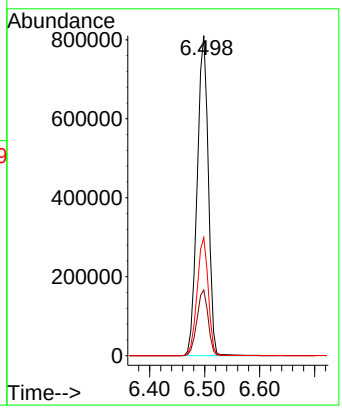


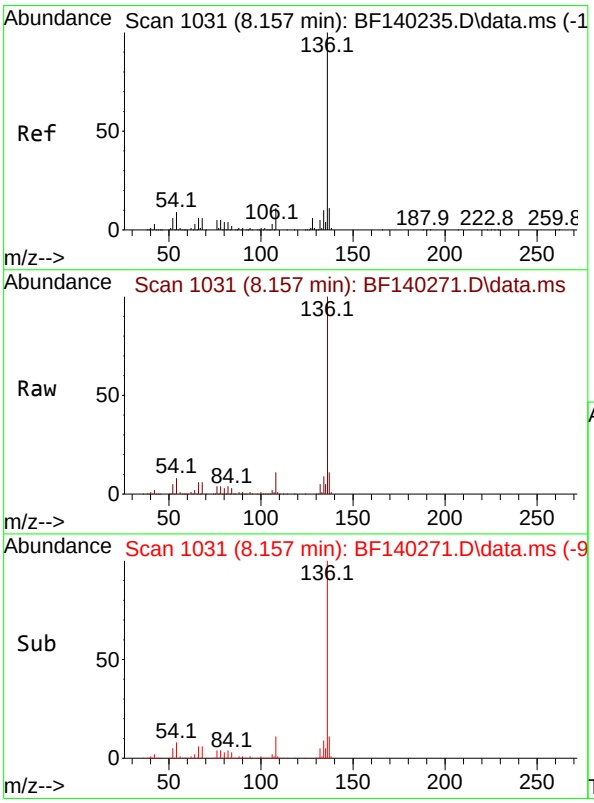
#7
Phenol-d6
Concen: 118.835 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion: 99 Resp: 1140564

Ion	Ratio	Lower	Upper
99	100		
42	20.5	18.2	27.2
71	36.9	30.9	46.3

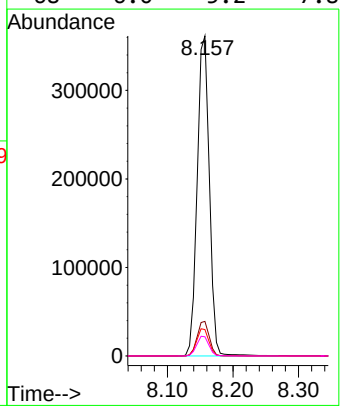


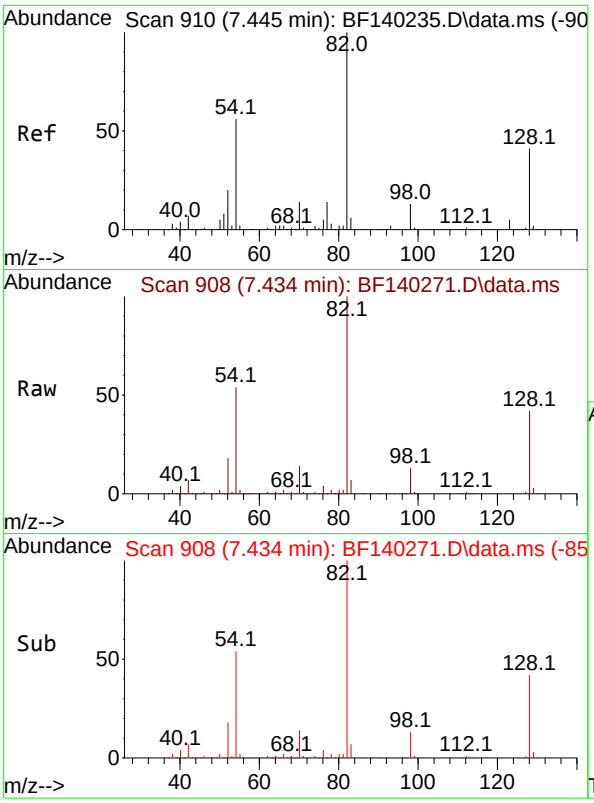


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:136 Resp: 467420

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.6
54	8.2	7.7	11.5
68	6.0	5.2	7.8



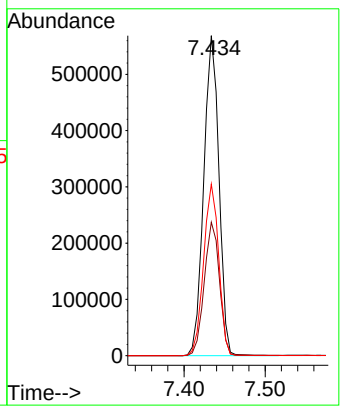


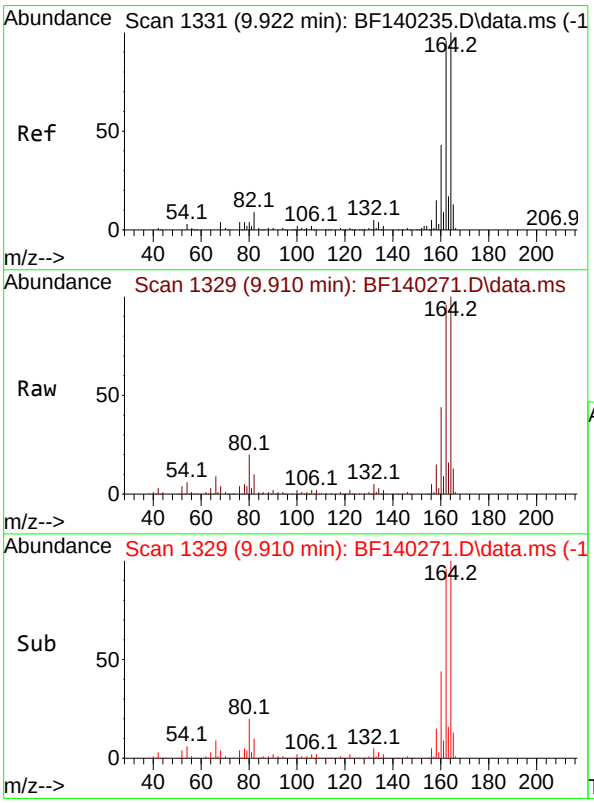
#23
Nitrobenzene-d5
Concen: 78.484 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion: 82 Resp: 737853

Ion	Ratio	Lower	Upper
82	100		
128	41.7	32.8	49.2
54	53.6	44.3	66.5

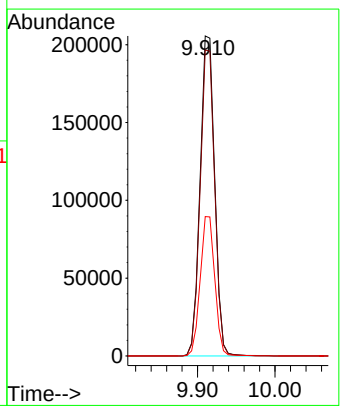


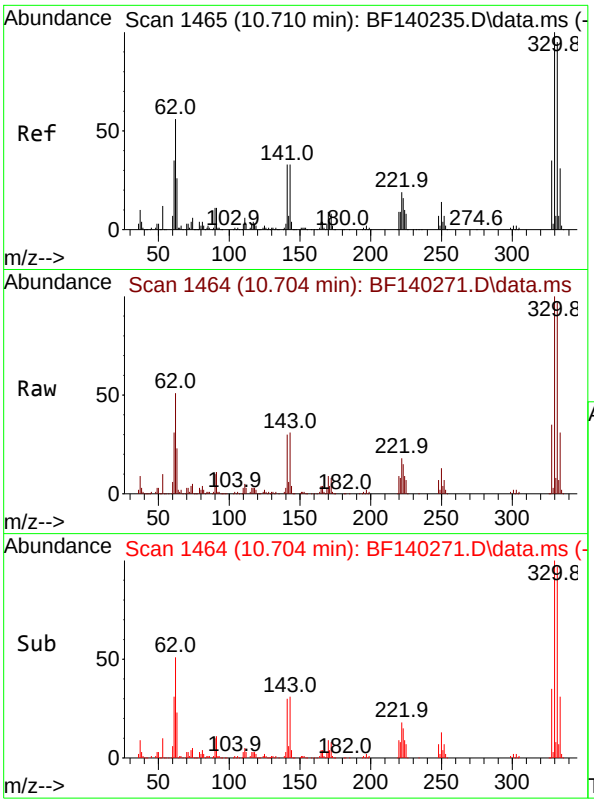


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.012 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:164 Resp: 268928

Ion	Ratio	Lower	Upper
164	100		
162	95.6	77.0	115.4
160	43.6	34.1	51.1



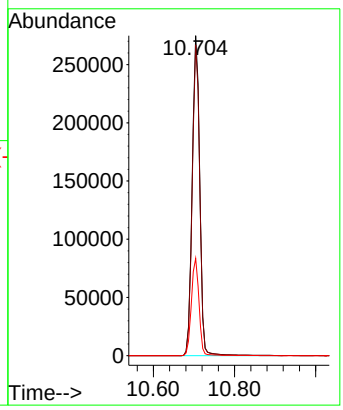


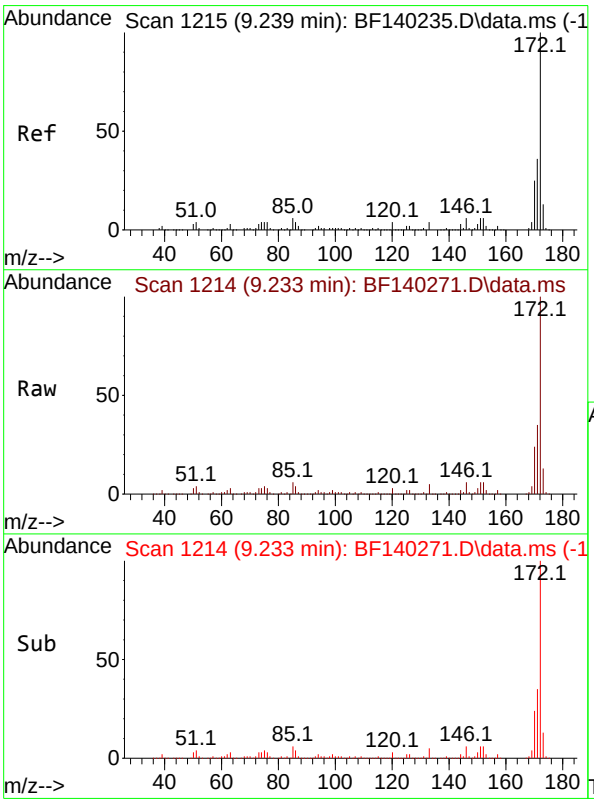
#42
2,4,6-Tribromophenol
Concen: 133.597 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:330 Resp: 355130

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.4	114.6
141	30.6	27.0	40.4

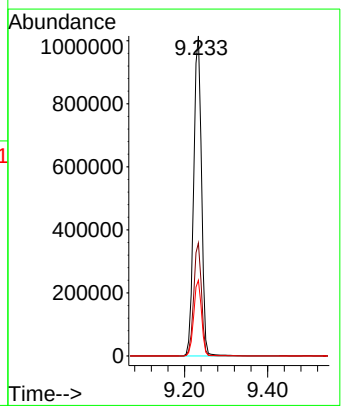


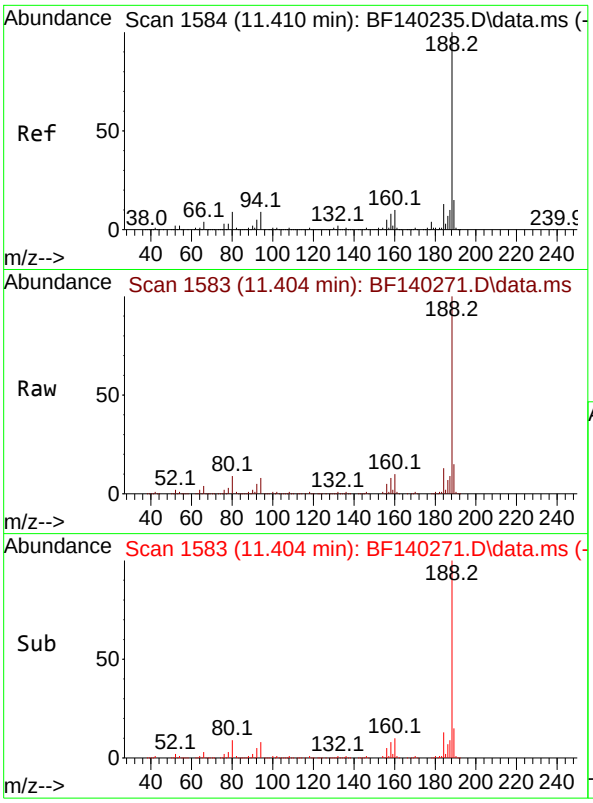


#45
2-Fluorobiphenyl
Concen: 78.940 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:172 Resp: 1329473

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.8	43.2
170	23.7	19.6	29.4



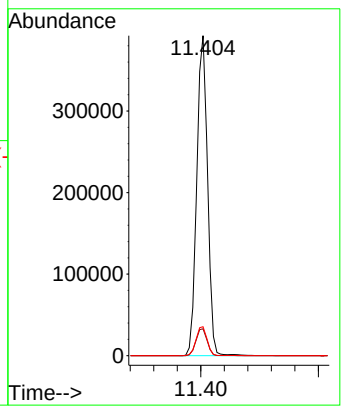


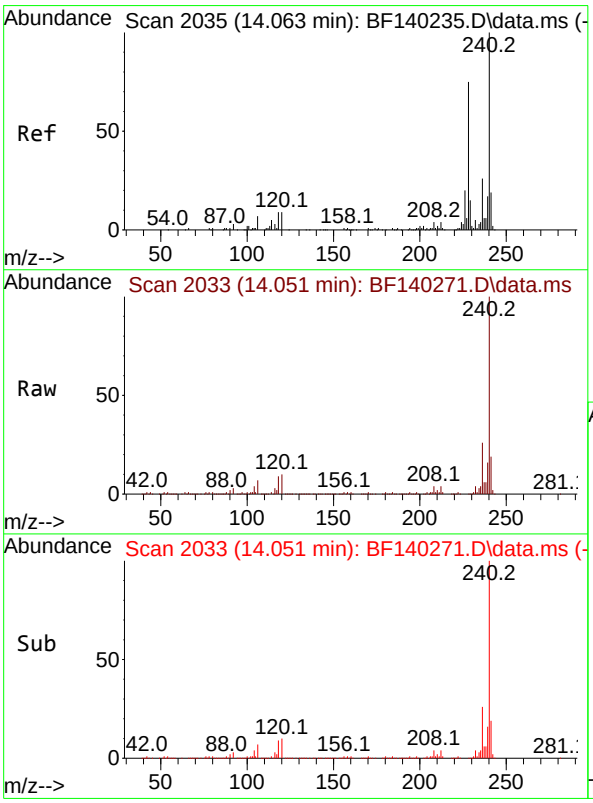
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:188 Resp: 499705

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.9	10.3
80	9.1	7.5	11.3

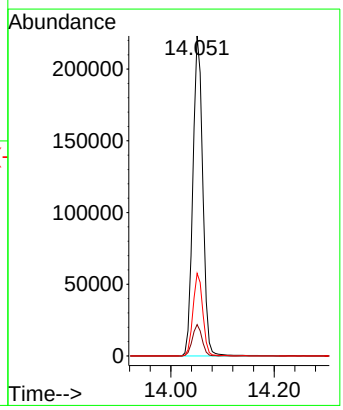


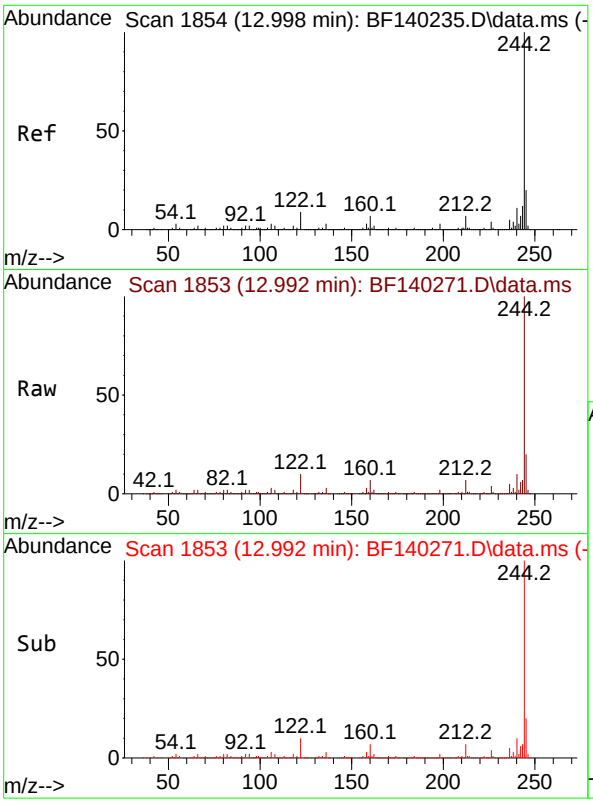


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.012 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:240 Resp: 296704

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.5	11.3
236	25.8	20.9	31.3



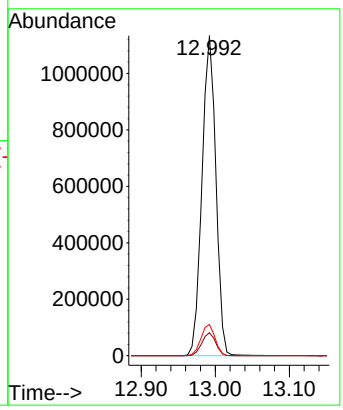


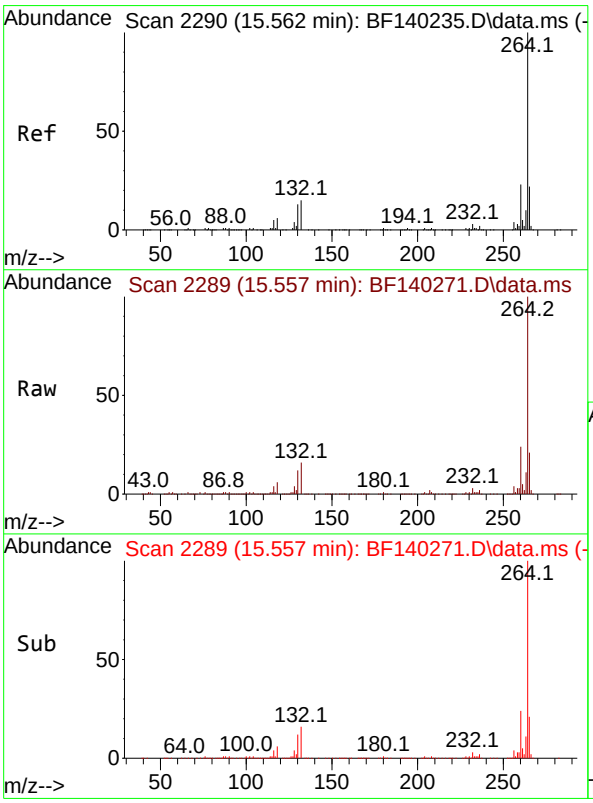
#79
Terphenyl-d14
Concen: 81.486 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:244 Resp: 1475896

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	9.7	7.6	11.4

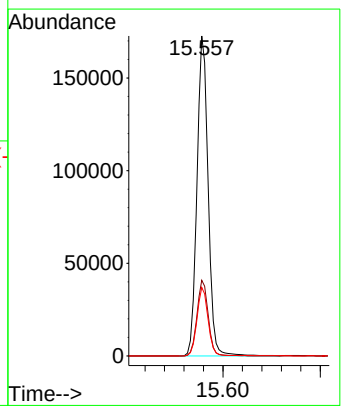




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2289
Delta R.T. -0.006 min
Lab File: BF140271.D
Acq: 07 Nov 2024 13:33

Tgt Ion:264 Resp: 275946

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.8	28.2
265	21.4	17.3	25.9



Sample Results: **BF140271.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140271.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.152	4	10	24	rVB	1870938	3034273	78.12%	10.047%
2	2.263	24	29	45	rVB	52128	106866	2.75%	0.354%
3	5.093	499	510	525	rBV	429344	693416	17.85%	2.296%
4	5.493	572	578	583	rBV	2420566	3262416	83.99%	10.802%
5	5.893	641	646	654	rVB	41202	52420	1.35%	0.174%
6	6.498	742	749	754	rBV	2400763	3383033	87.10%	11.201%
7	6.875	808	813	818	rBV	621523	747533	19.25%	2.475%
8	7.434	902	908	913	rBV	1669482	2161700	55.65%	7.158%
9	8.157	1025	1031	1046	rVB	746699	970018	24.97%	3.212%
10	8.369	1063	1067	1070	rBV	31261	44488	1.15%	0.147%
11	9.233	1207	1214	1219	rBV	2979779	3884222	100.00%	12.861%
12	9.910	1324	1329	1342	rVB	860195	1115525	28.72%	3.694%
13	10.322	1375	1399	1401	rBV2	21139	106099	2.73%	0.351%
14	10.628	1446	1451	1458	rBV	386506	472958	12.18%	1.566%
15	10.704	1458	1464	1479	rBV	2067895	2676150	68.90%	8.861%
16	11.404	1577	1583	1589	rBV	916856	1170394	30.13%	3.875%
17	11.469	1590	1594	1598	rVB3	47286	57221	1.47%	0.189%
18	11.933	1667	1673	1696	rBV	374933	633879	16.32%	2.099%
19	12.716	1802	1806	1817	rBV2	39006	75230	1.94%	0.249%
20	12.992	1847	1853	1858	rBV	2946491	3836198	98.76%	12.702%
21	13.904	2002	2008	2027	rBV	73524	193068	4.97%	0.639%
22	14.051	2028	2033	2042	rVB	606825	802585	20.66%	2.657%
23	15.557	2283	2289	2300	rBV	451949	722116	18.59%	2.391%

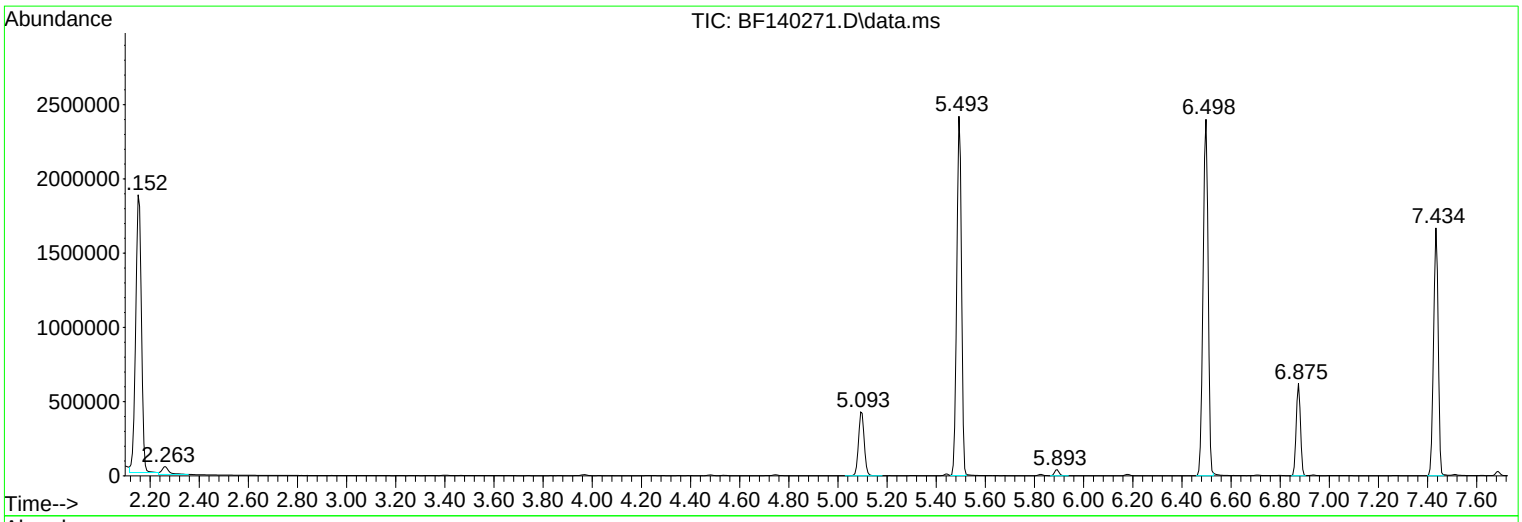
Sum of corrected areas: 30201808

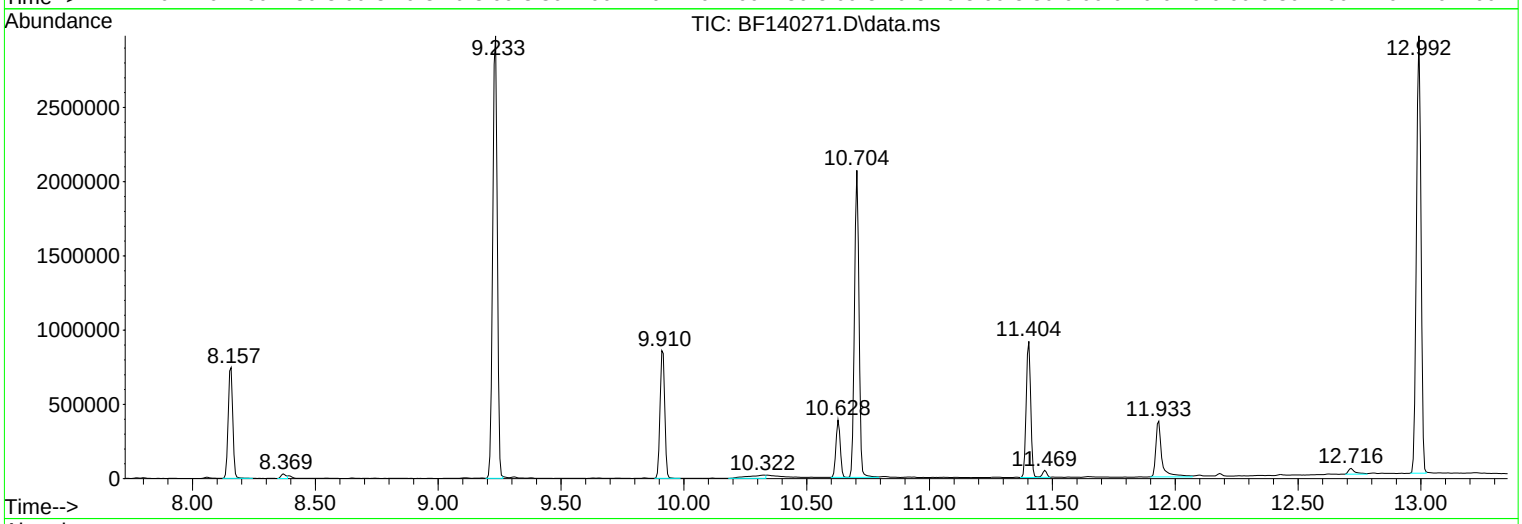
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

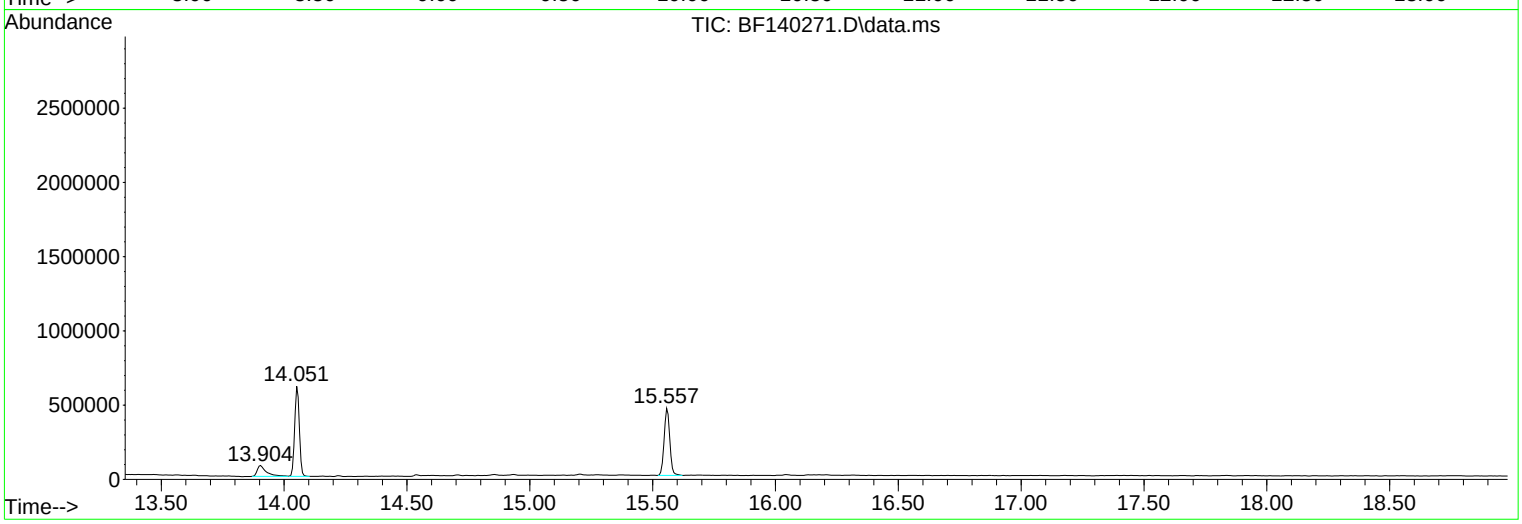
Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

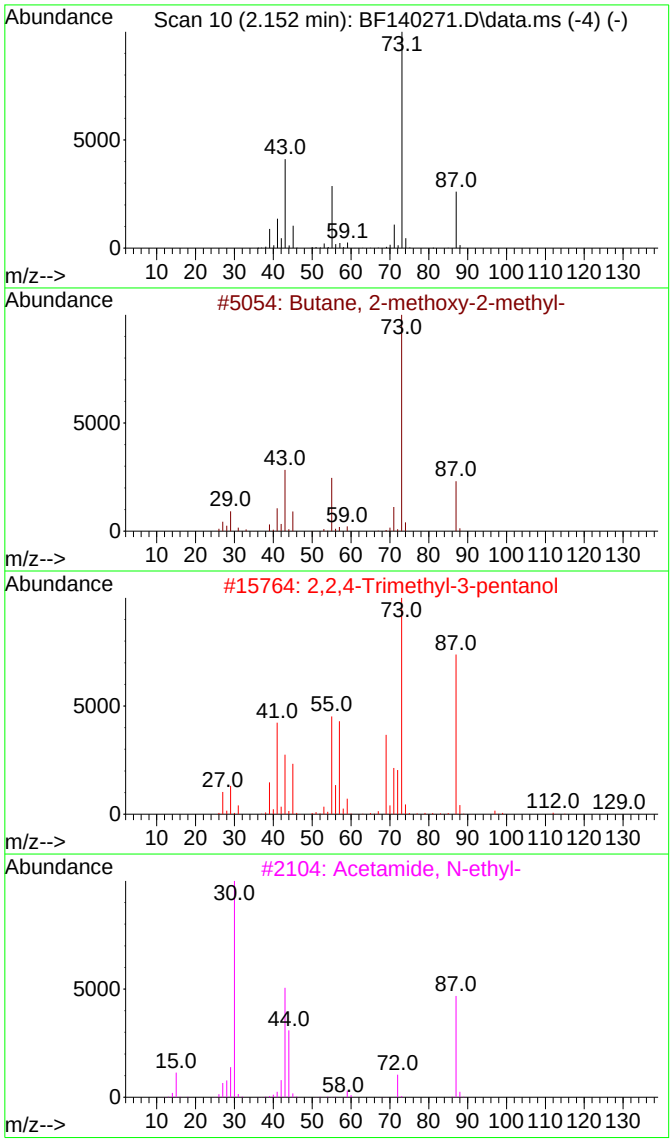
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

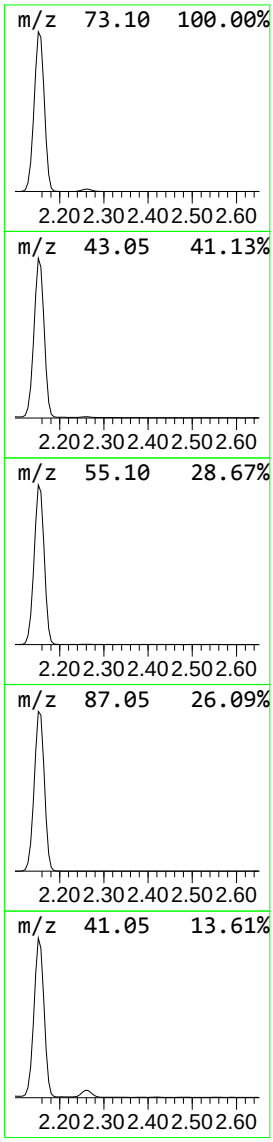
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.152	81.18 ng	3034270	1,4-Dichlorobenzene-d4	6.875

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\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

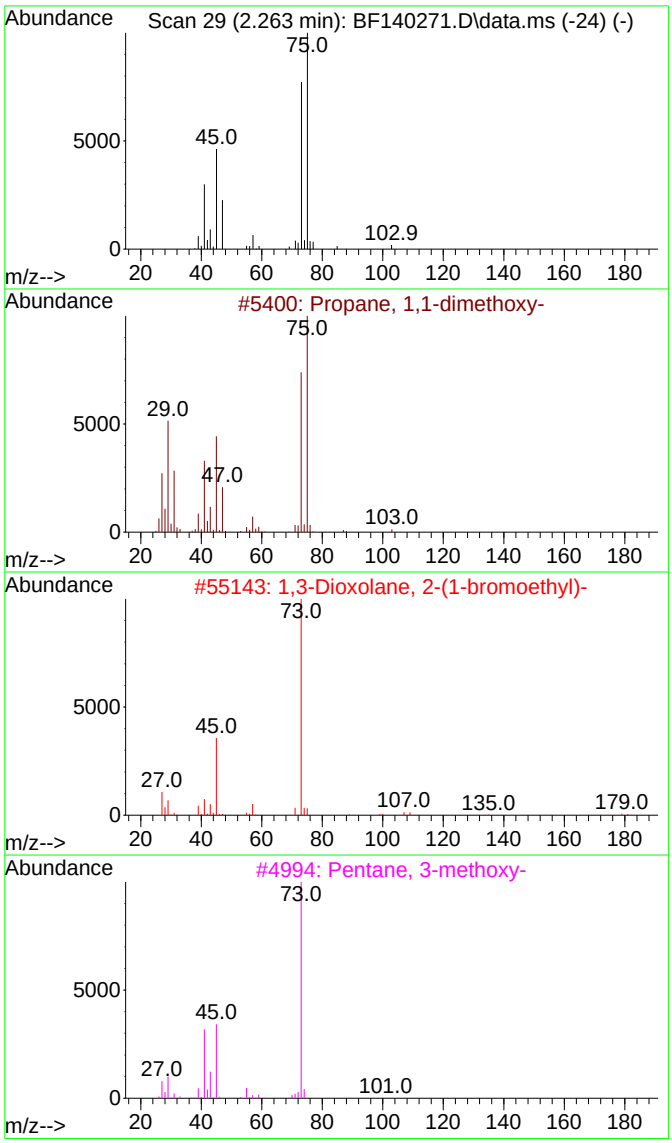
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

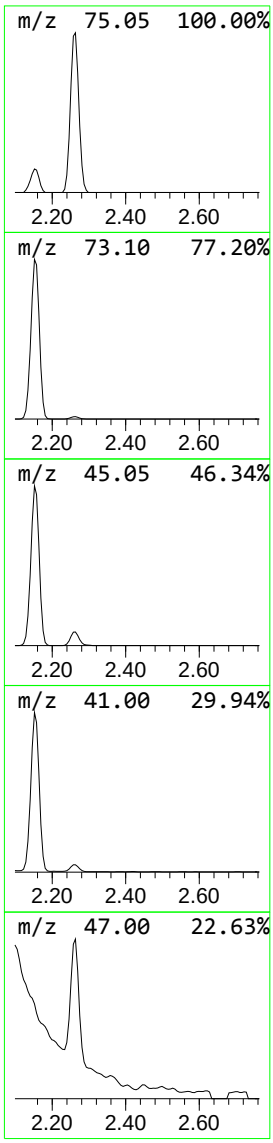
****

Peak Number 2 Propane, 1,1-dimethoxy- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	2.86 ng	106866	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	83
2	1,3-Dioxolane, 2-(1-bromoethyl)-	180	C5H9BrO2	005267-73-2	27
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	27
4	Methane, isothiocyanato-	73	C2H3NS	000556-61-6	9
5	1-Cyclohexyl-3-ethoxy-butan-2-one	198	C12H22O2	074897-69-1	9





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Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

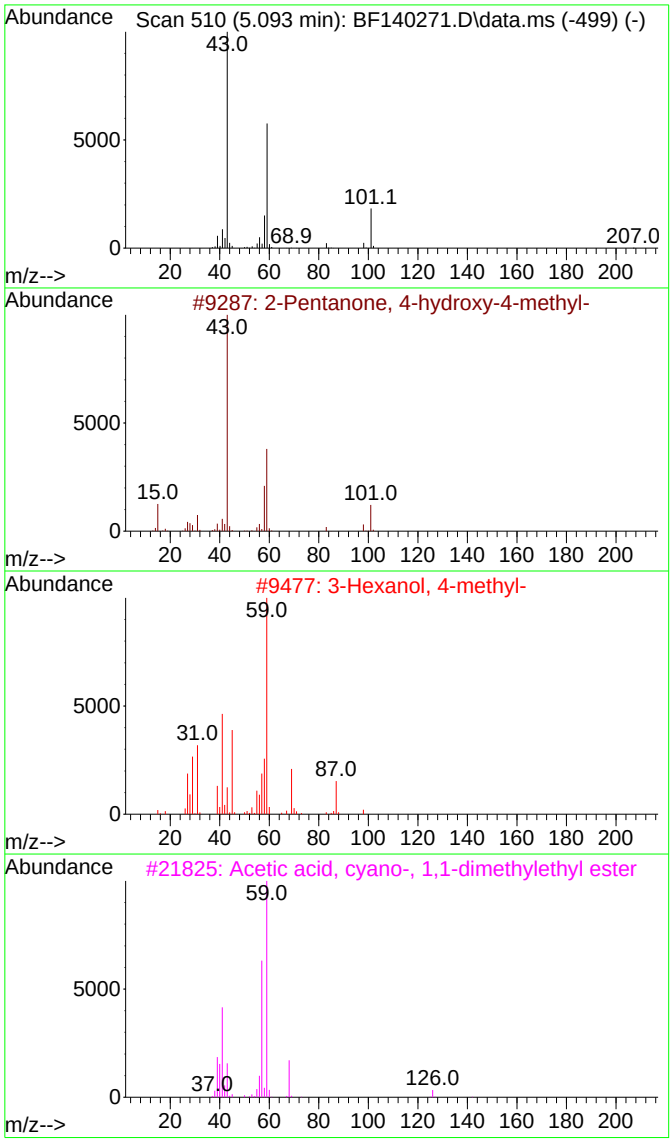
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

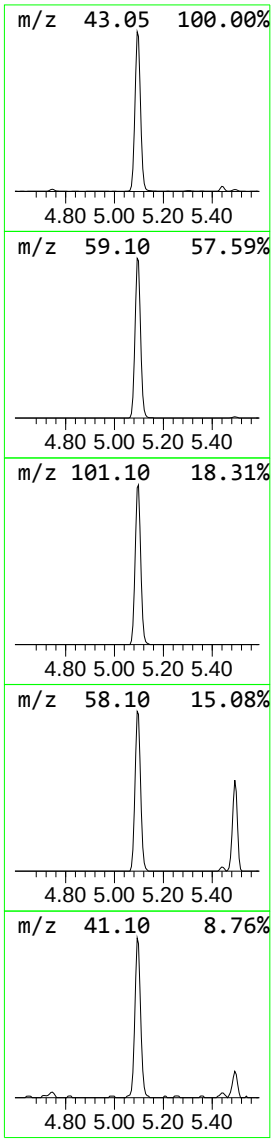
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.093	18.55 ng	693416	1,4-Dichlorobenzene-d4	6.875

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, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





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Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

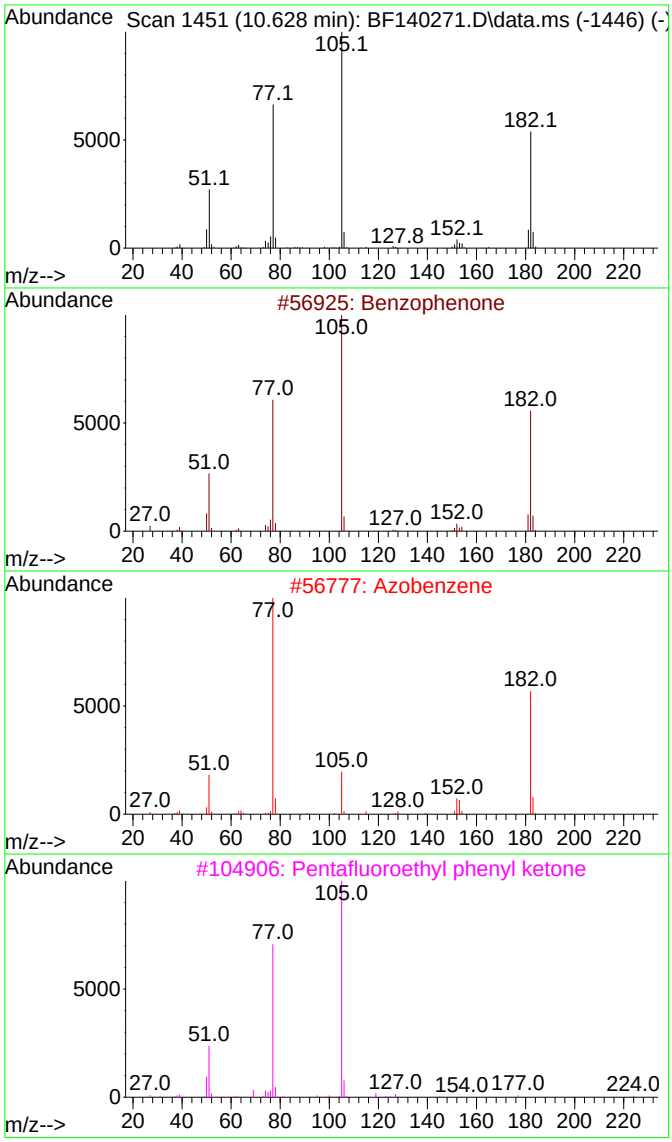
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

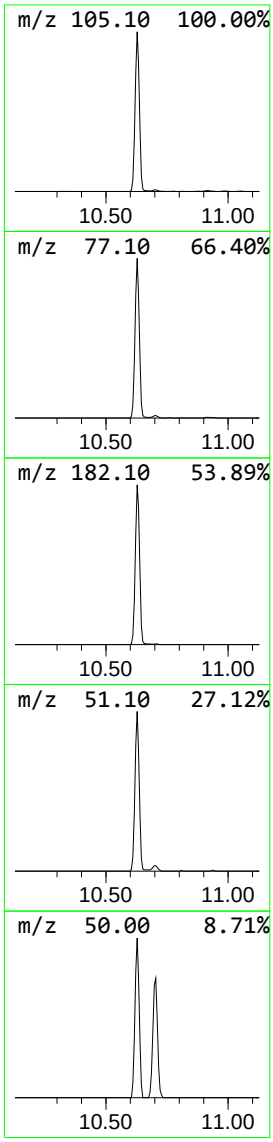
****

Peak Number 4 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	8.48 ng	472958	Acenaphthene-d10	9.910

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	64
3	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
4	Benzilamide	227	C14H13NO2	004746-87-6	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

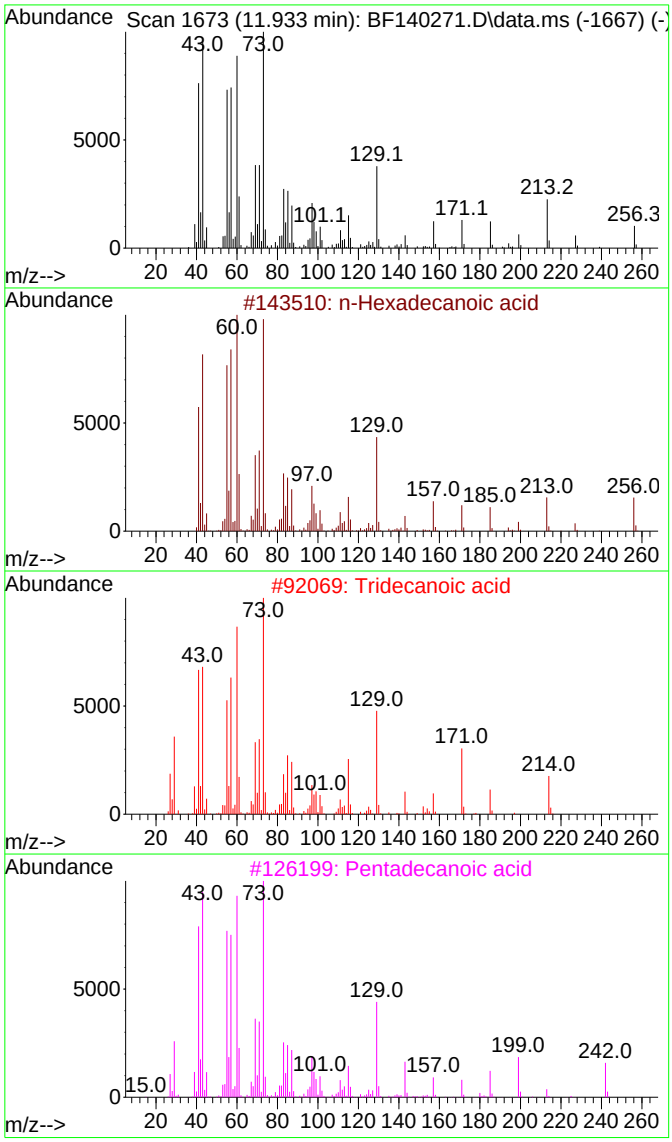
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

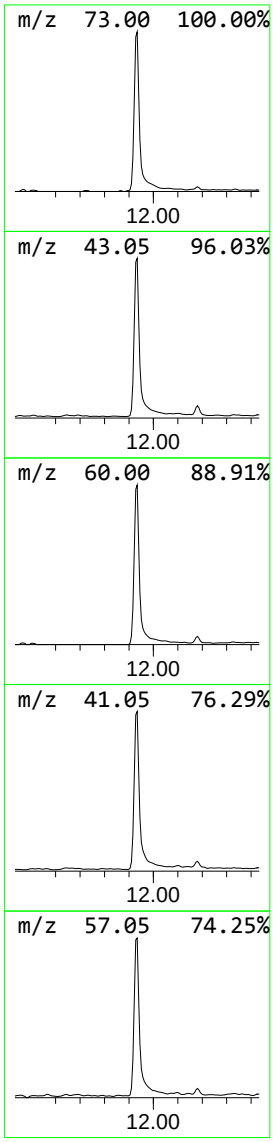
****

Peak Number 5 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	10.83 ng	633879	Phenanthrene-d10	11.404

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	95
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	Dodecanoic acid	200	C12H24O2	000143-07-7	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

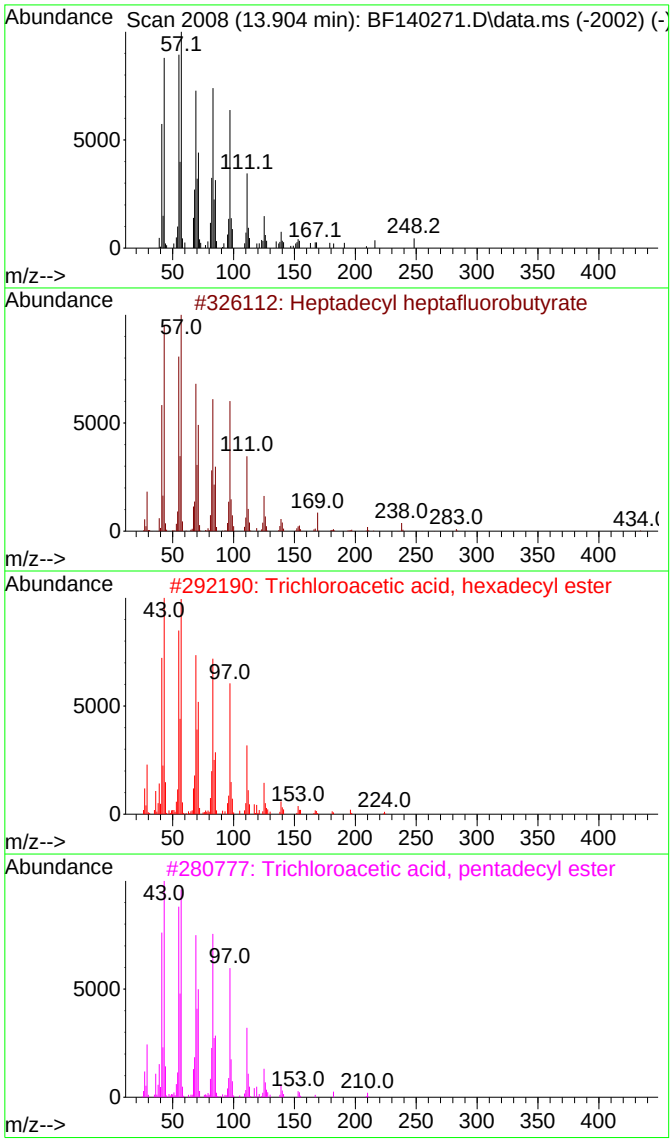
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

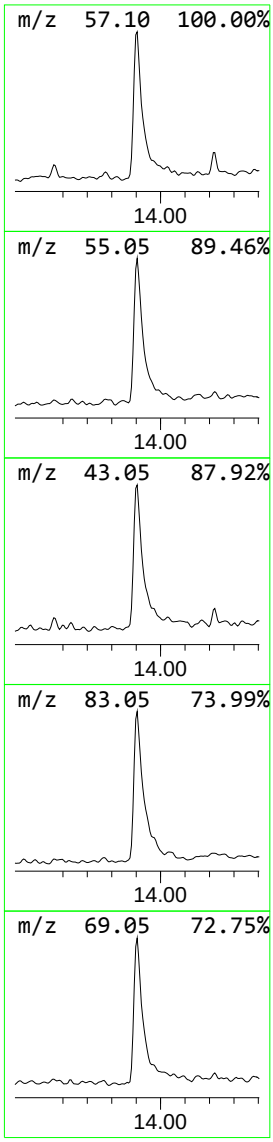
****

Peak Number 6 Heptadecyl heptafluorobutyrate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.81 ng	193068	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
4	1-Heneicosanol	312	C21H44O	015594-90-8	93
5	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140271.D
Acq On : 07 Nov 2024 13:33
Operator : RC/JU
Sample : P4718-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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...	2.152	81.2	ng	3034270	1	6.875	747533	20.0
Propane, 1,1-di...	2.263	2.9	ng	106866	1	6.875	747533	20.0
2-Pentanone, 4-...	5.093	18.6	ng	693416	1	6.875	747533	20.0
Benzophenone	10.628	8.5	ng	472958	3	9.910	1115530	20.0
n-Hexadecanoic ...	11.933	10.8	ng	633879	4	11.404	1170390	20.0
Heptadecyl hept...	13.904	4.8	ng	193068	5	14.051	802585	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Time: Nov 14 18:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

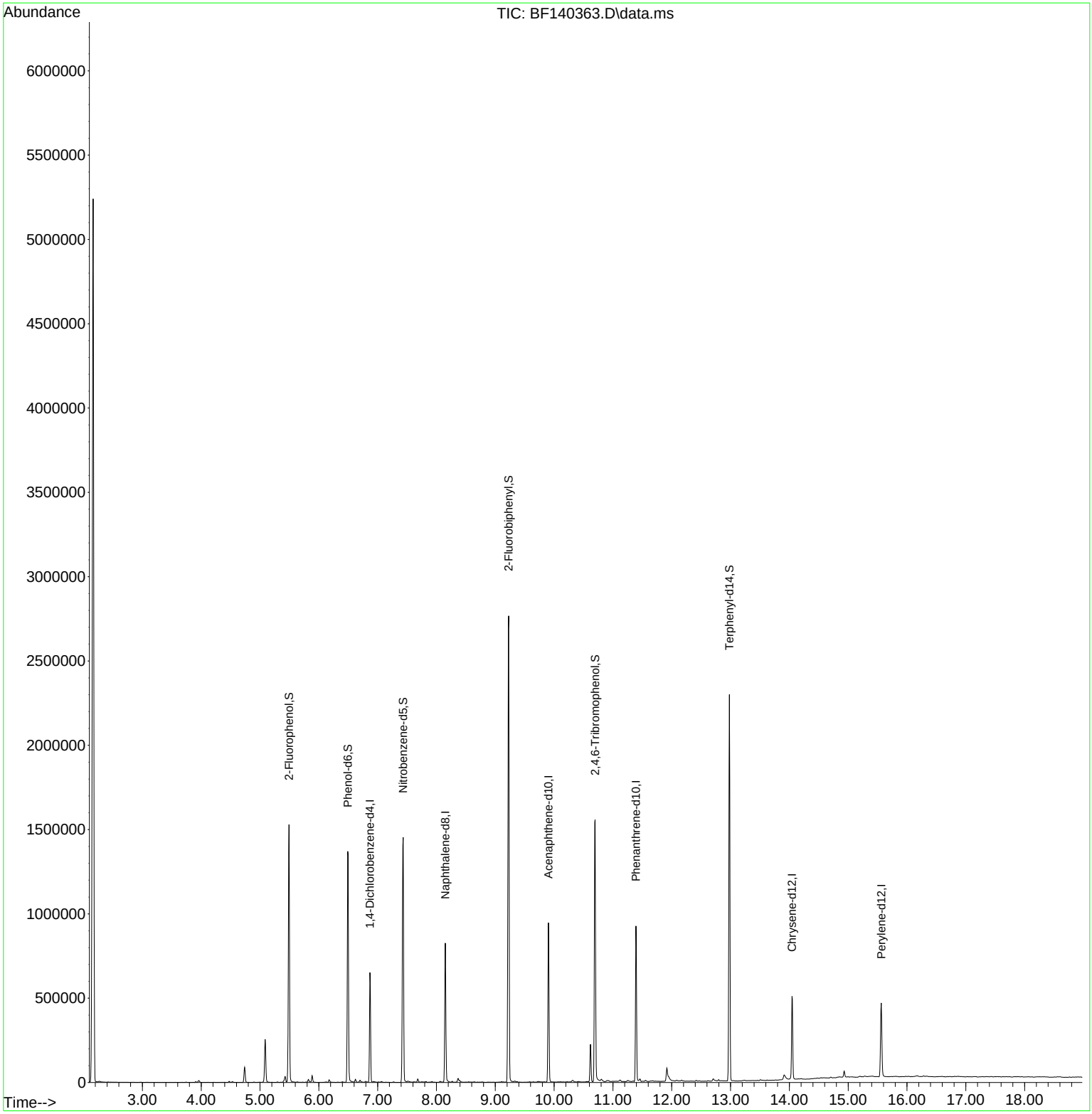
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	137046	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	514015	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	280819	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	486241	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	241422	20.000	ng	0.00
86) Perylene-d12	15.562	264	265329	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	564887	70.376	ng	0.00
7) Phenol-d6	6.492	99	668570	61.479	ng	-0.01
23) Nitrobenzene-d5	7.433	82	702982	71.257	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	271410	97.192	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1271885	72.809	ng	0.00
79) Terphenyl-d14	12.980	244	1095780	78.785	ng	0.00
Target Compounds						Qvalue

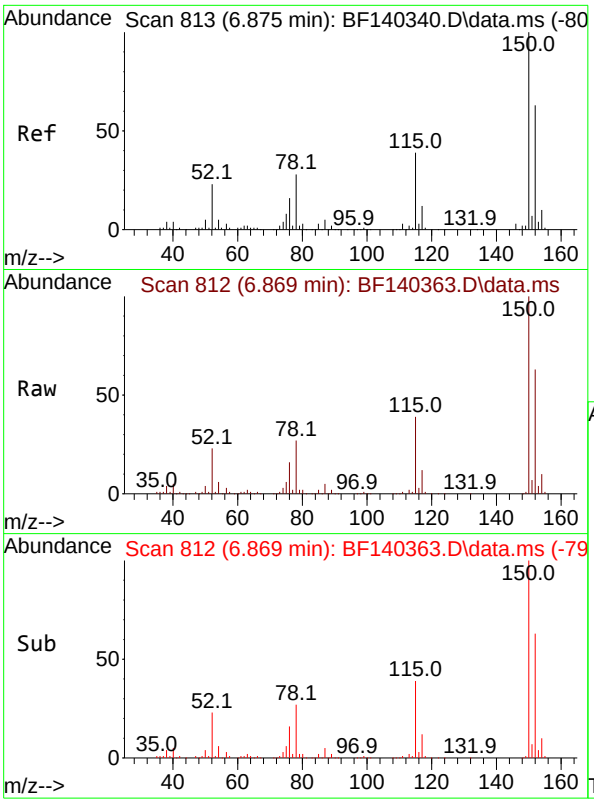
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Time: Nov 14 18:19:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



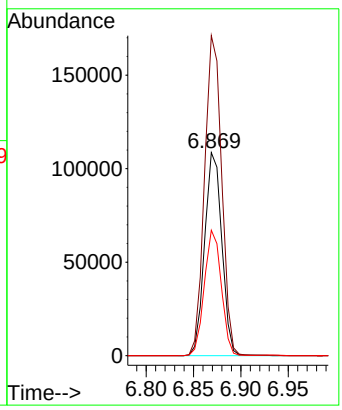


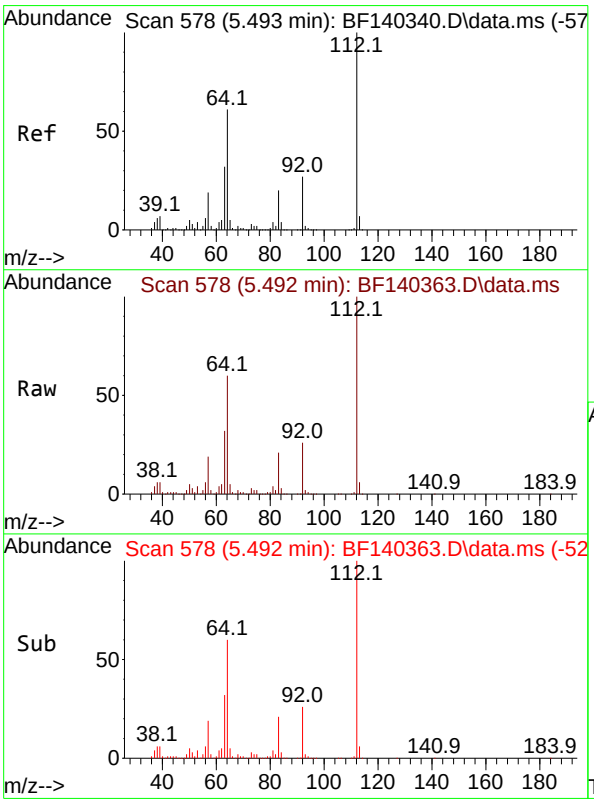
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Tgt Ion:152 Resp: 137046

Ion	Ratio	Lower	Upper
152	100		
150	157.7	127.4	191.0
115	61.8	47.4	71.2

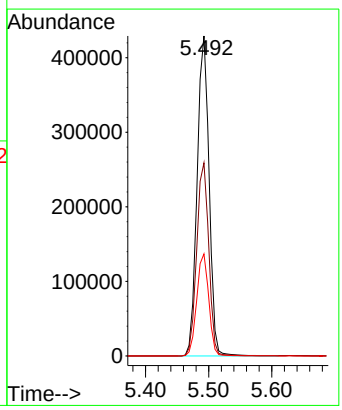


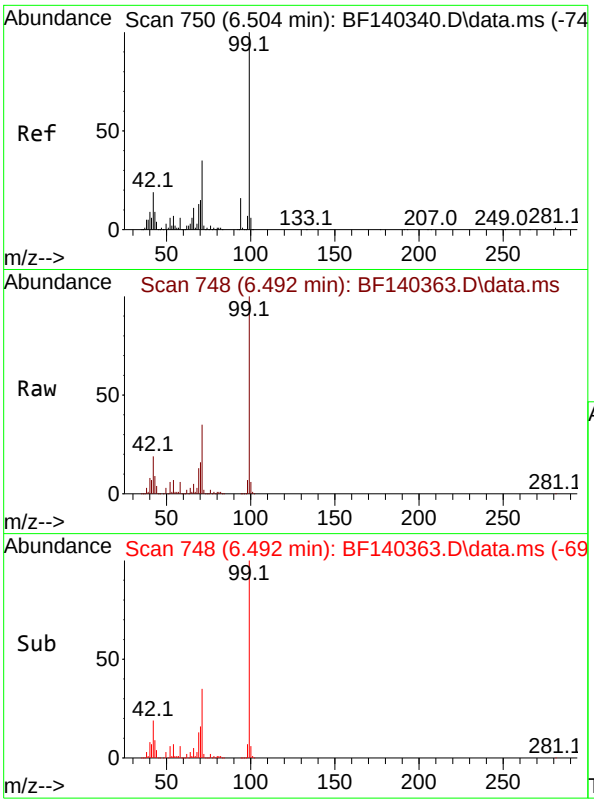


#5
2-Fluorophenol
Concen: 70.376 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.000 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:112 Resp: 564887

Ion	Ratio	Lower	Upper
112	100		
64	60.4	49.2	73.8
63	31.9	25.6	38.4



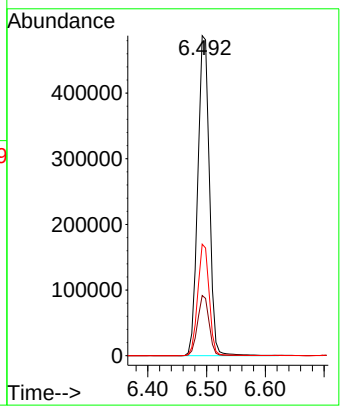


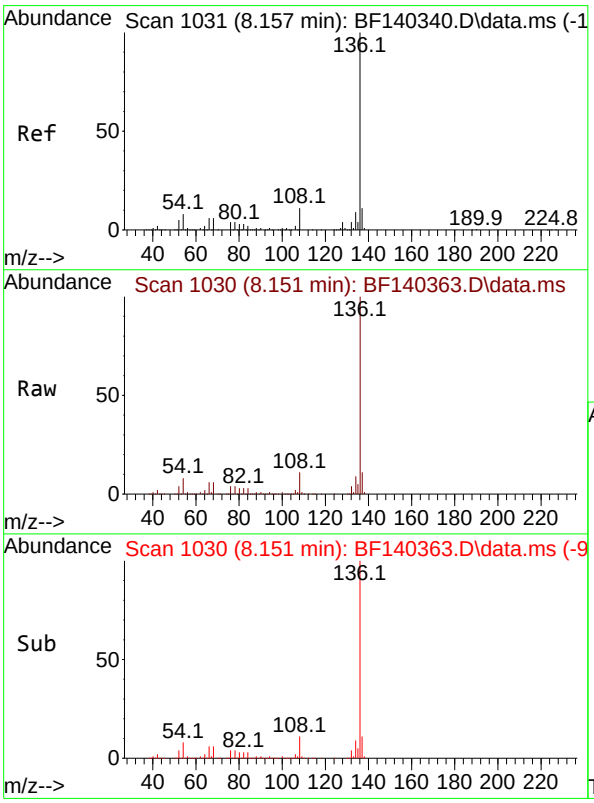
#7
Phenol-d6
Concen: 61.479 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Tgt Ion: 99 Resp: 668570

Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.1	22.7
71	34.9	27.9	41.9

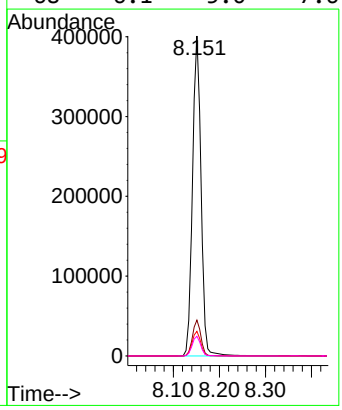


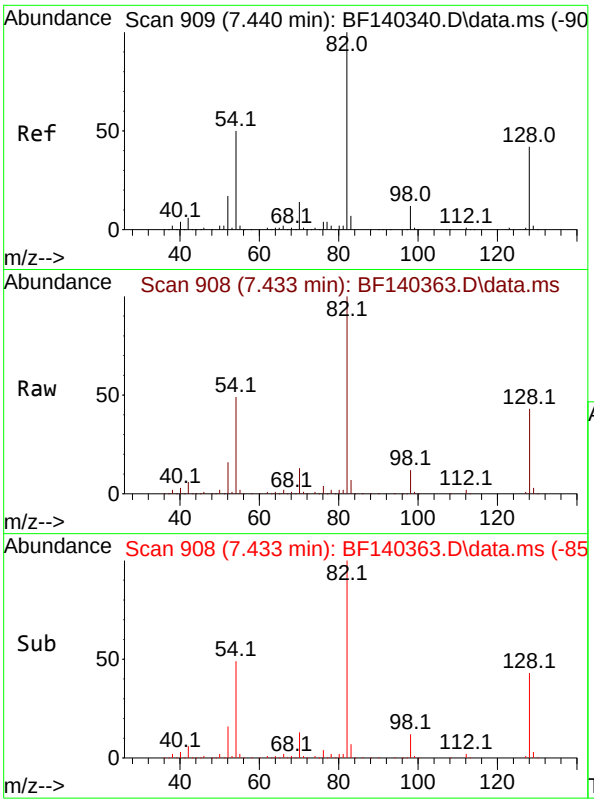


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:136 Resp: 514015

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	7.7	6.5	9.7
68	6.1	5.0	7.6



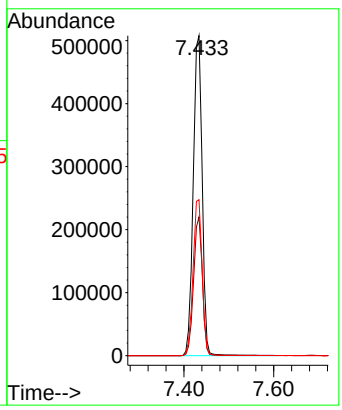


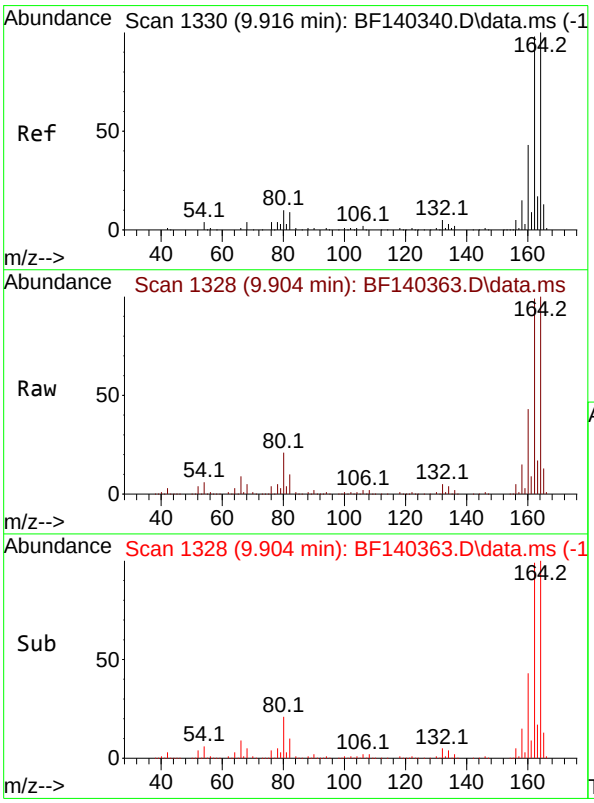
#23
Nitrobenzene-d5
Concen: 71.257 ng
RT: 7.433 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Tgt Ion: 82 Resp: 702982

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.3	49.9
54	48.8	39.8	59.8

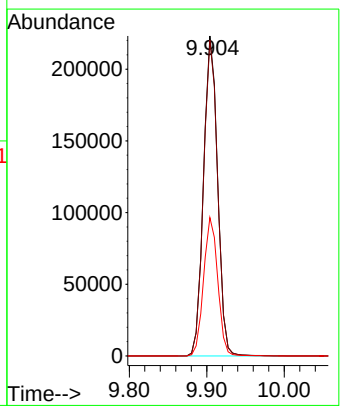


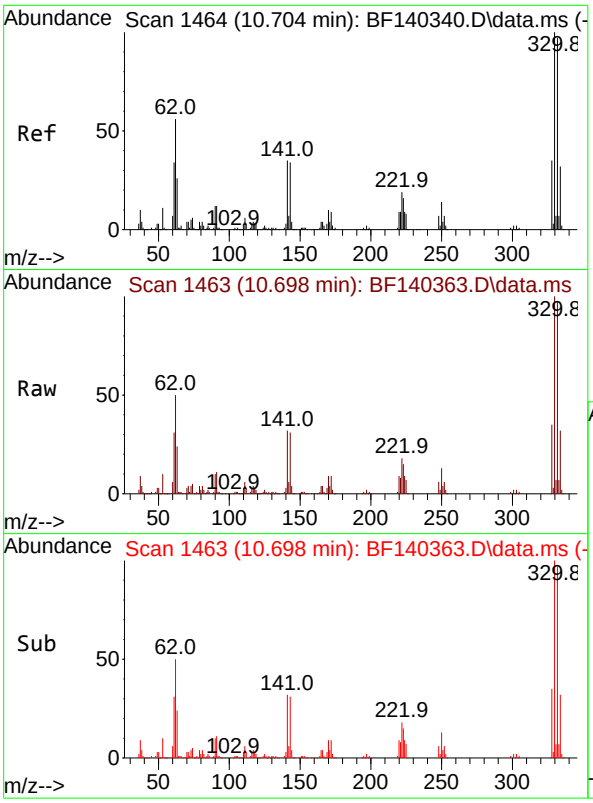


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:164 Resp: 280819

Ion	Ratio	Lower	Upper
164	100		
162	98.7	79.8	119.8
160	43.2	35.4	53.0



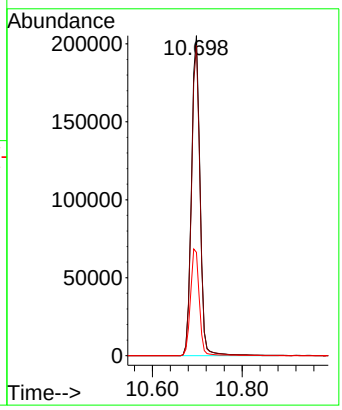


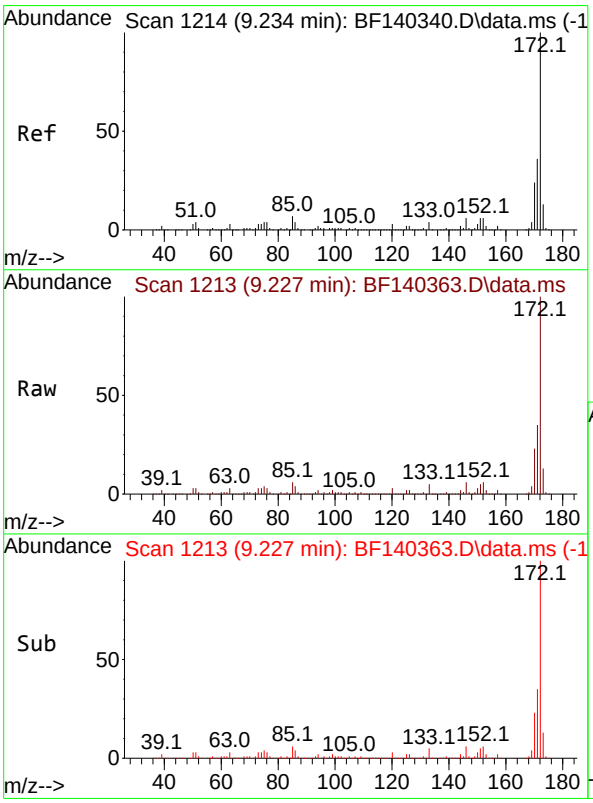
#42
2,4,6-Tribromophenol
Concen: 97.192 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Tgt Ion:330 Resp: 271410

Ion	Ratio	Lower	Upper
330	100		
332	96.8	75.9	113.9
141	34.4	26.9	40.3

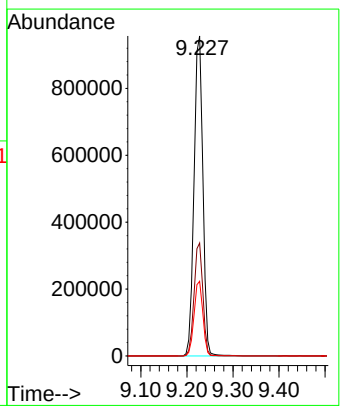


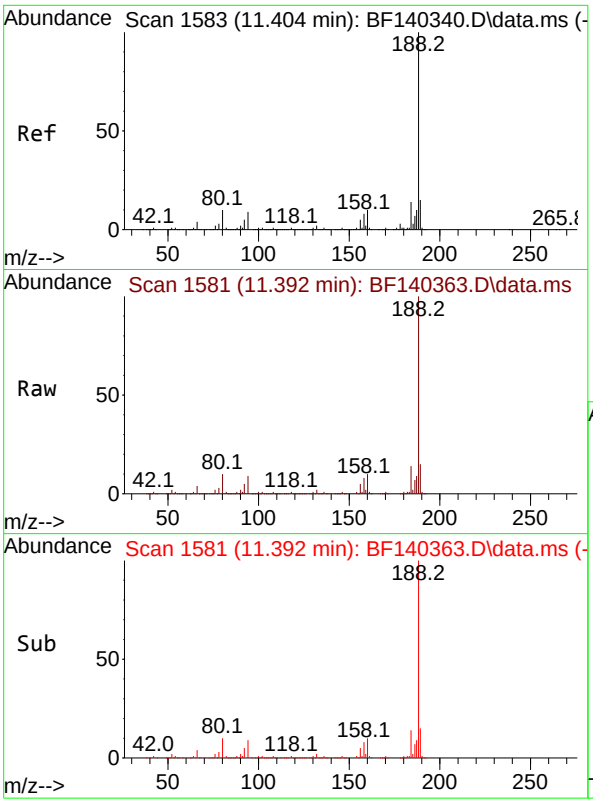


#45
2-Fluorobiphenyl
Concen: 72.809 ng
RT: 9.227 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:172 Resp: 1271885

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.5	42.7
170	23.4	19.1	28.7



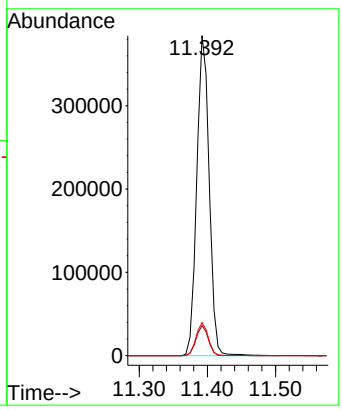


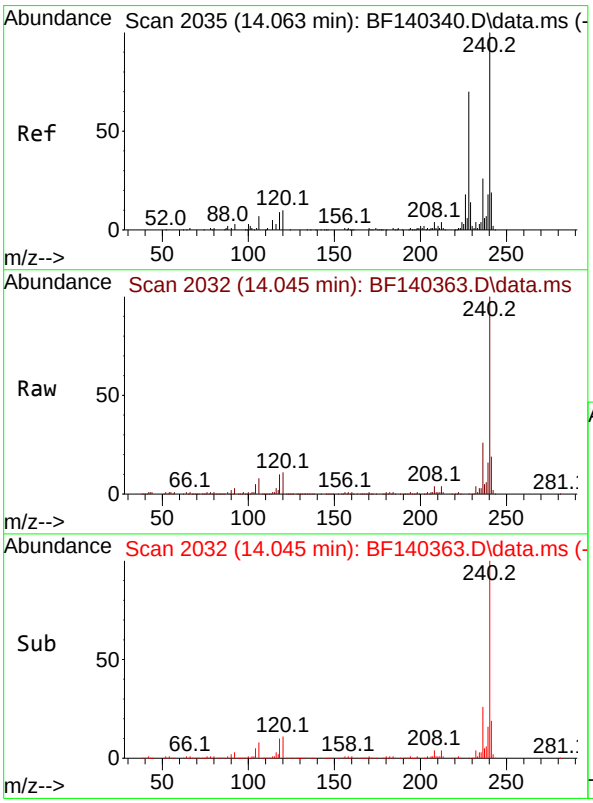
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Tgt Ion:188 Resp: 486241

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.6	11.4
80	10.3	8.0	12.0

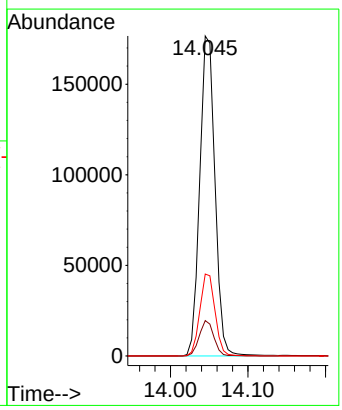


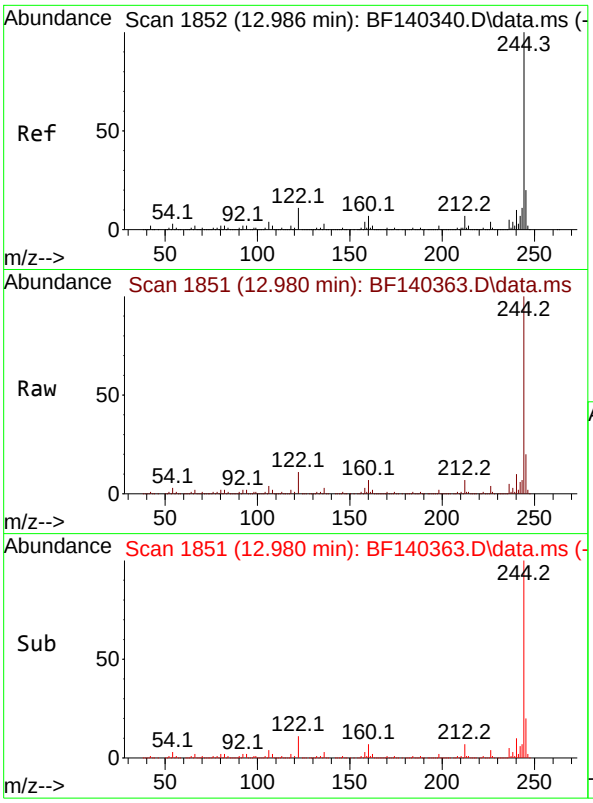


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:240 Resp: 241422

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.8	13.2
236	25.6	20.9	31.3



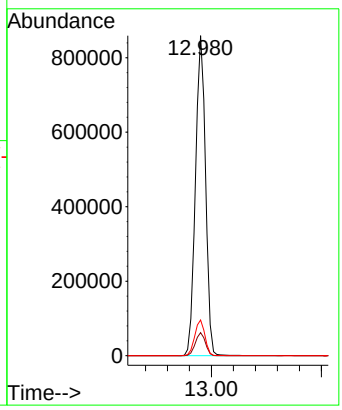


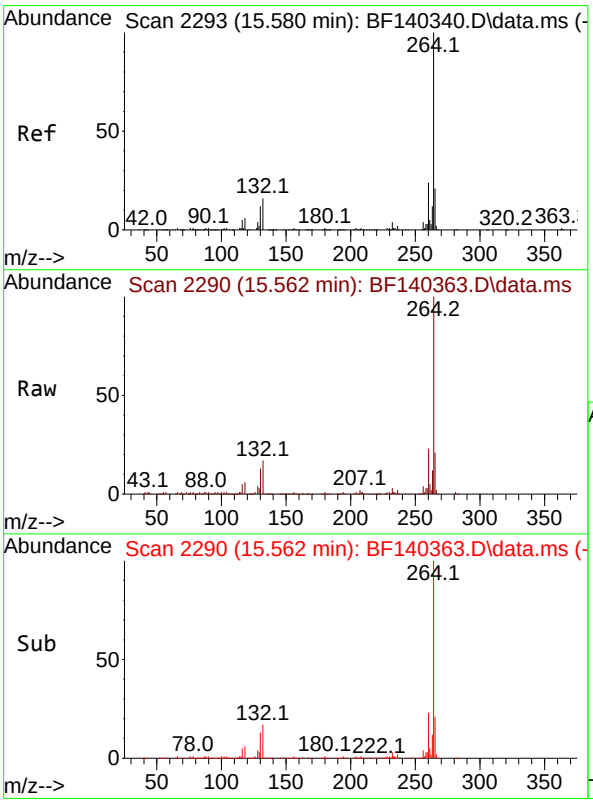
#79
Terphenyl-d14
Concen: 78.785 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Tgt Ion:244 Resp: 1095780

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	11.1	8.8	13.2

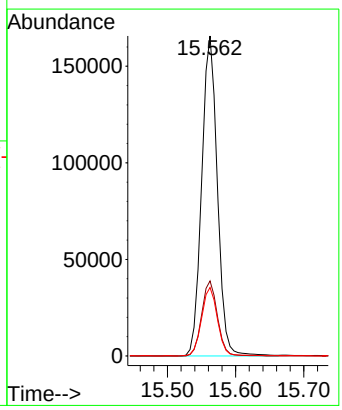




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2290
Delta R.T. 0.006 min
Lab File: BF140363.D
Acq: 14 Nov 2024 15:39

Tgt Ion:264 Resp: 265329

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	21.4	17.1	25.7



Sample Results: **BF140363.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140363.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	3	12	18	rBV	5236869	9048173	100.00%	29.872%
2	4.740	444	450	457	rBV	88229	120895	1.34%	0.399%
3	5.087	500	509	524	rVB	255818	384092	4.24%	1.268%
4	5.492	571	578	589	rBV	1528568	2030789	22.44%	6.704%
5	6.492	740	748	766	rBV	1369975	1893398	20.93%	6.251%
6	6.869	807	812	820	rBV	650115	813239	8.99%	2.685%
7	7.433	901	908	913	rBV	1453141	1996894	22.07%	6.593%
8	8.151	1024	1030	1043	rVB	824229	1051528	11.62%	3.472%
9	9.227	1206	1213	1223	rBV	2764542	3689213	40.77%	12.180%
10	9.904	1323	1328	1338	rBV	944831	1188638	13.14%	3.924%
11	10.621	1444	1450	1457	rBV	220028	288895	3.19%	0.954%
12	10.698	1457	1463	1477	rBV	1554445	2153215	23.80%	7.109%
13	11.392	1576	1581	1588	rBV	921943	1162704	12.85%	3.839%
14	11.916	1665	1670	1685	rBV3	77066	174248	1.93%	0.575%
15	12.980	1845	1851	1856	rBV	2292241	2908373	32.14%	9.602%
16	14.045	2025	2032	2043	rVB	491224	677917	7.49%	2.238%
17	15.562	2284	2290	2303	rBV	436909	708047	7.83%	2.338%

Sum of corrected areas: 30290258

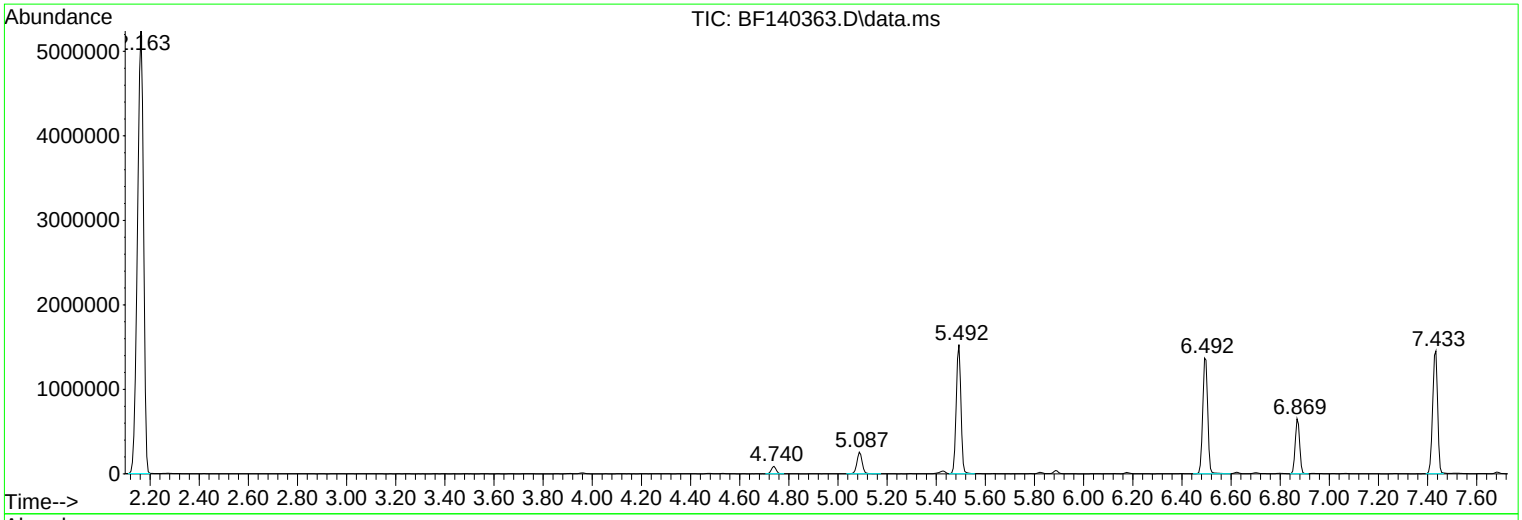
Sample Results: **BF140363.D**

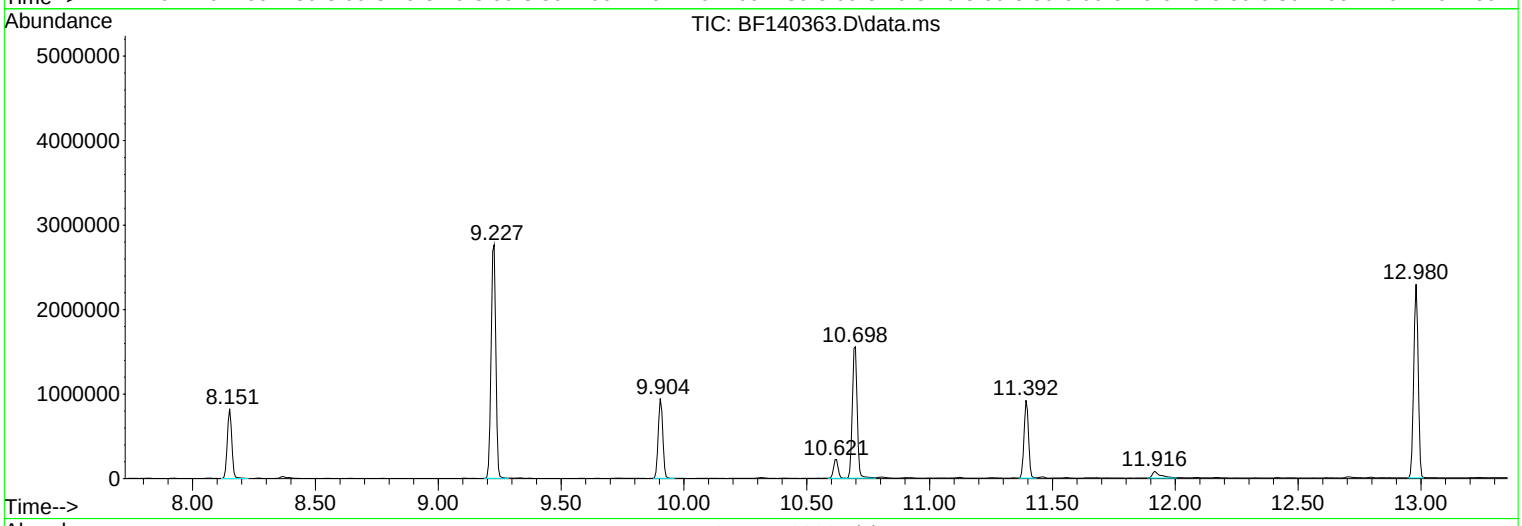
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

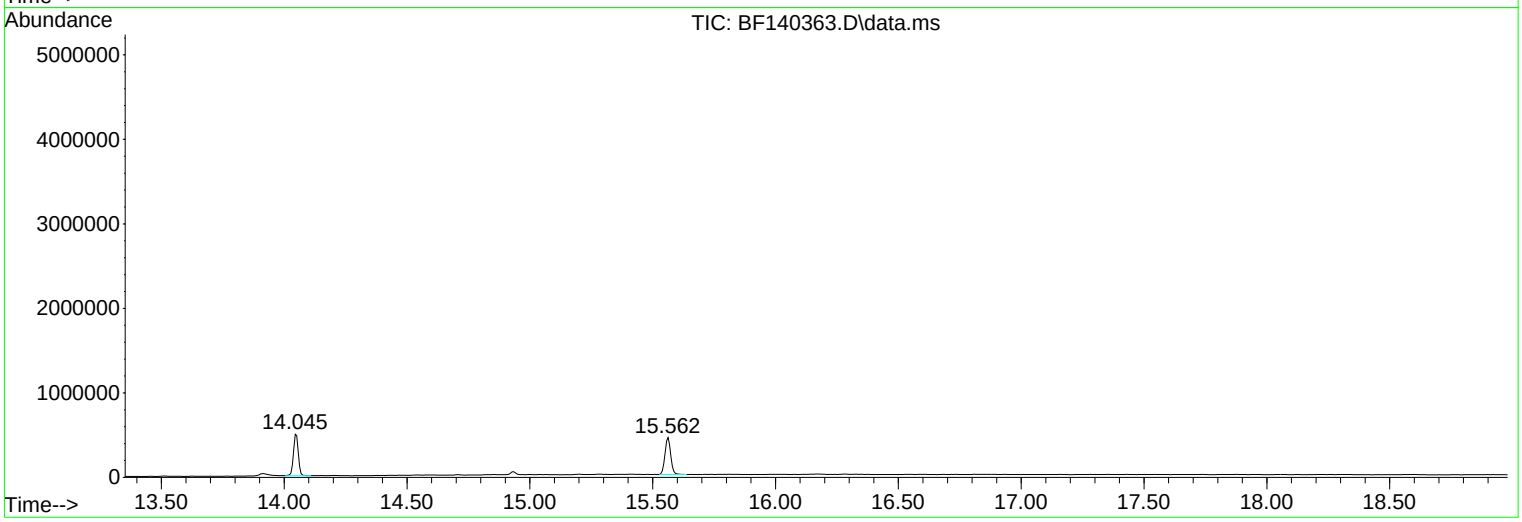
Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

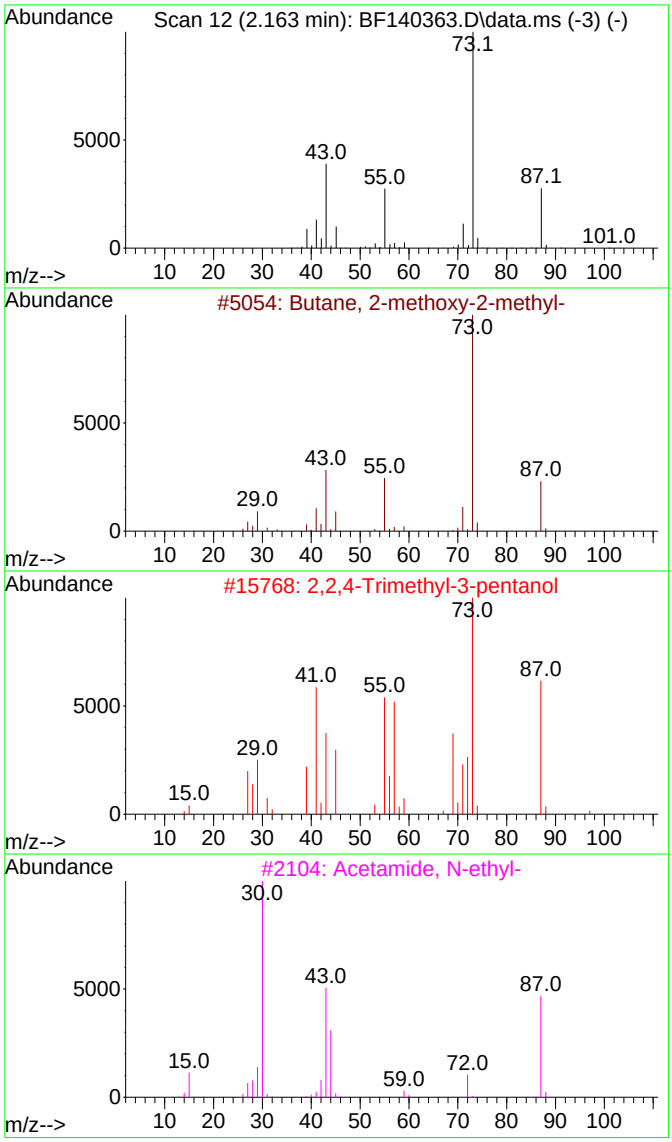
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

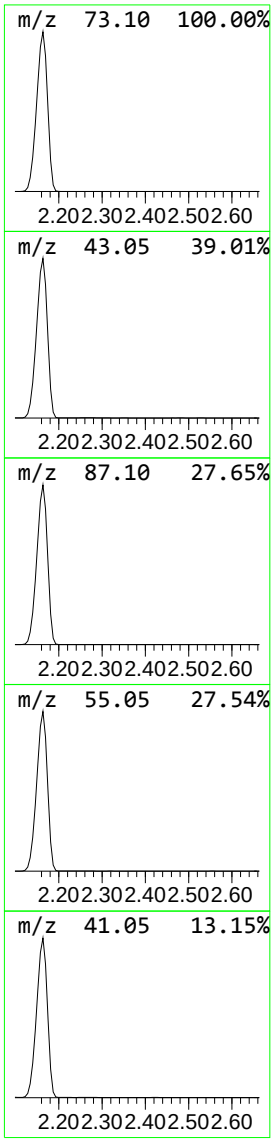
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	222.52 ng	9048170	1,4-Dichlorobenzene-d4	6.869

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	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\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

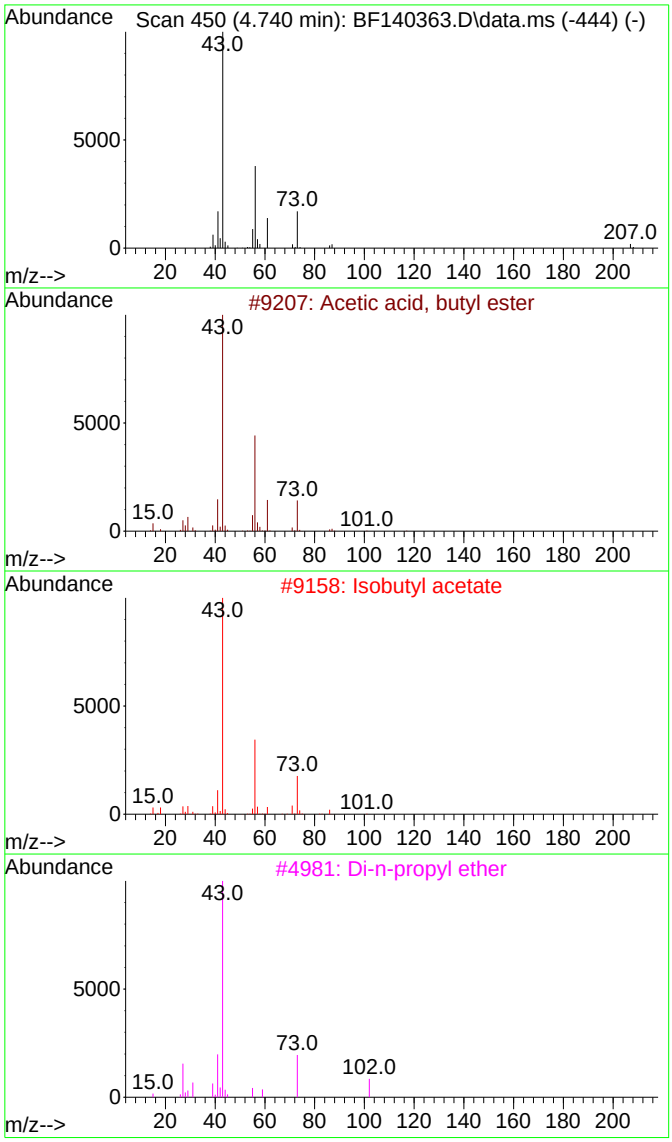
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

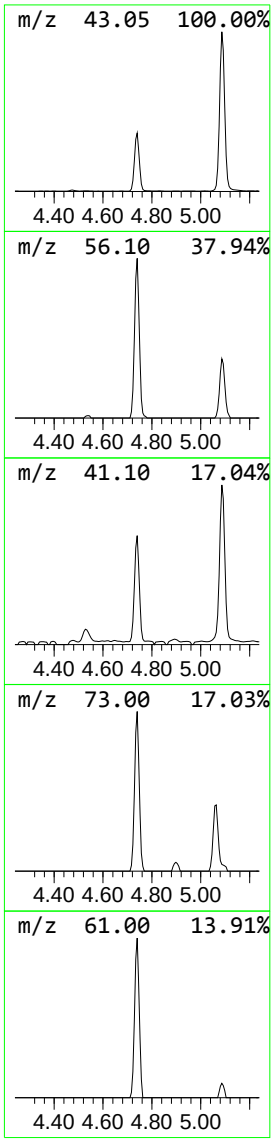
****

Peak Number 2 Acetic acid, butyl ester Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.740	2.97 ng	120895	1,4-Dichlorobenzene-d4	6.869

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetic acid, butyl ester	116	C6H12O2	000123-86-4	78
2	Isobutyl acetate	116	C6H12O2	000110-19-0	39
3	Di-n-propyl ether	102	C6H14O	000111-43-3	16
4	Isobutylamine	73	C4H11N	000078-81-9	9
5	Acetic acid, hexyl ester	144	C8H16O2	000142-92-7	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

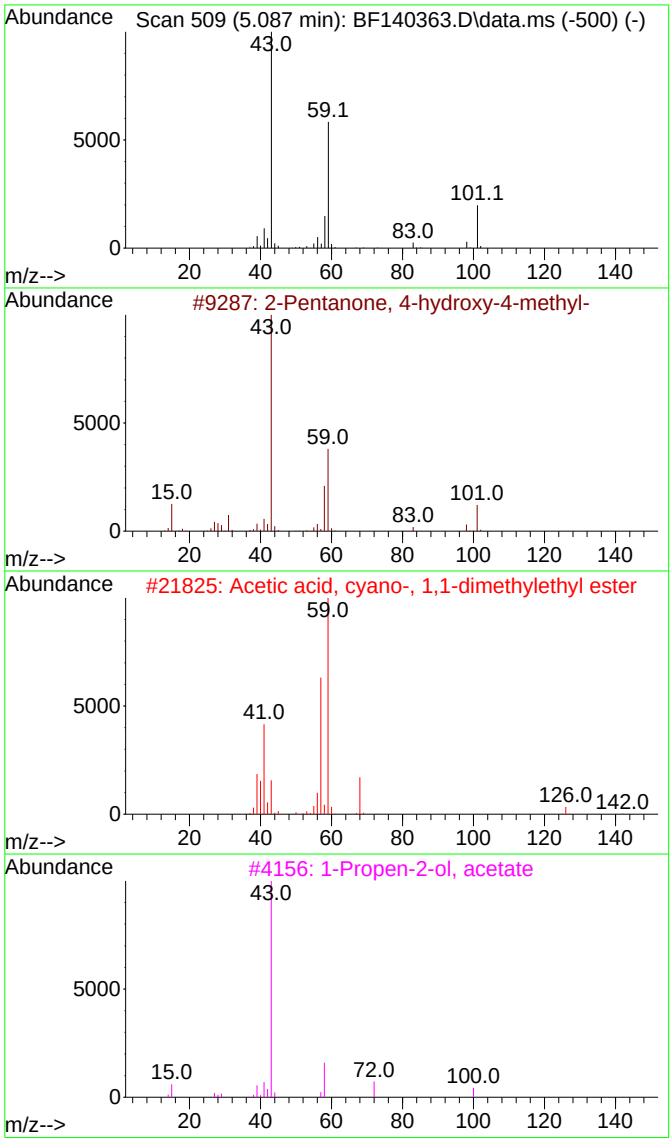
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

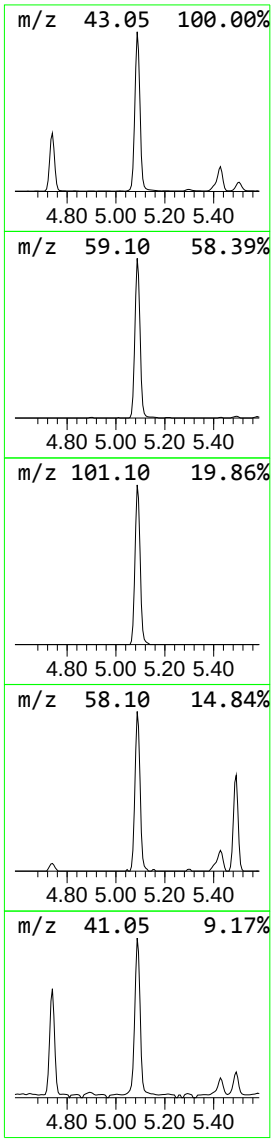
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.087	9.45 ng	384092	1,4-Dichlorobenzene-d4	6.869

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	3-Hexanol, 4-ethyl-	130	C8H18O	019780-44-0	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

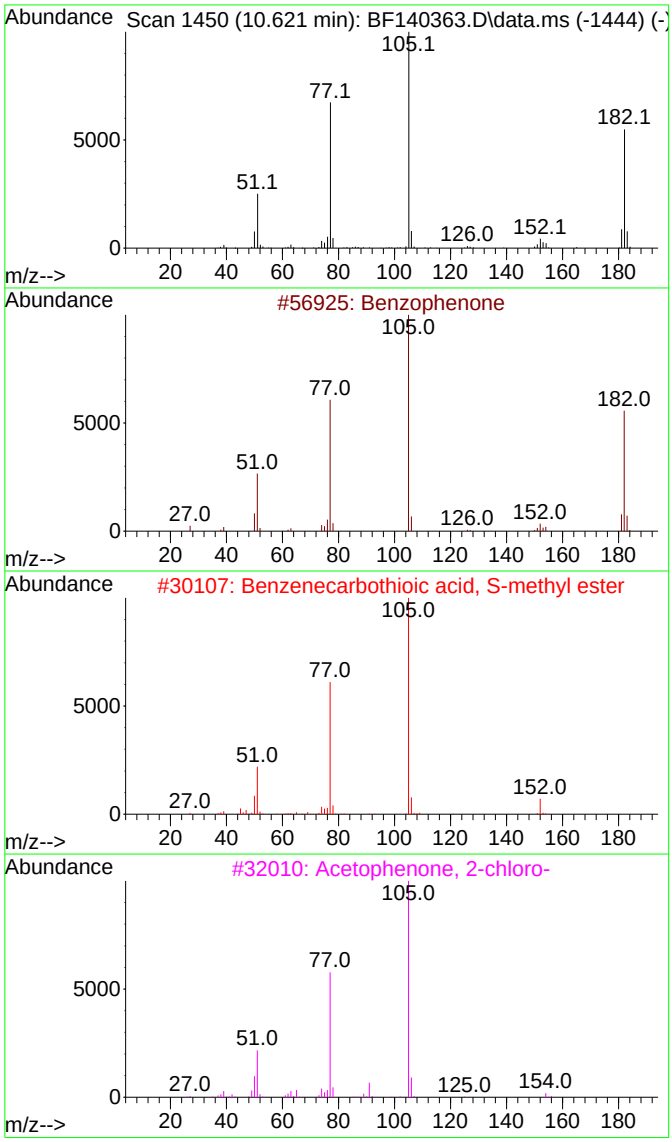
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

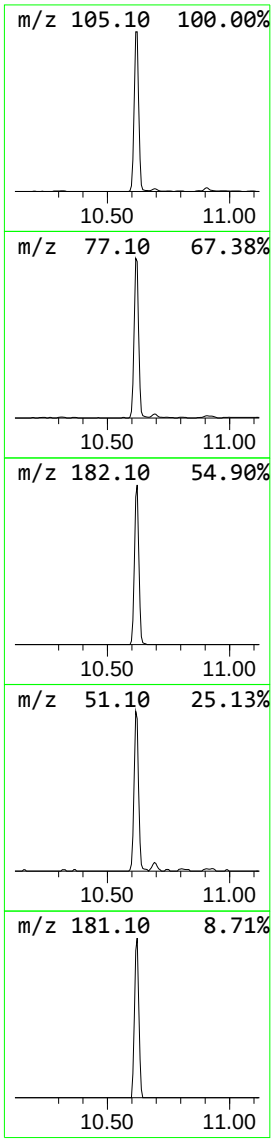
****

Peak Number 4 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.621	4.86 ng	288895	Acenaphthene-d10	9.904

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	58
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	2-Chloro-1-phenyl-1-propanone	168	C9H9ClO	006084-17-9	47
5	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

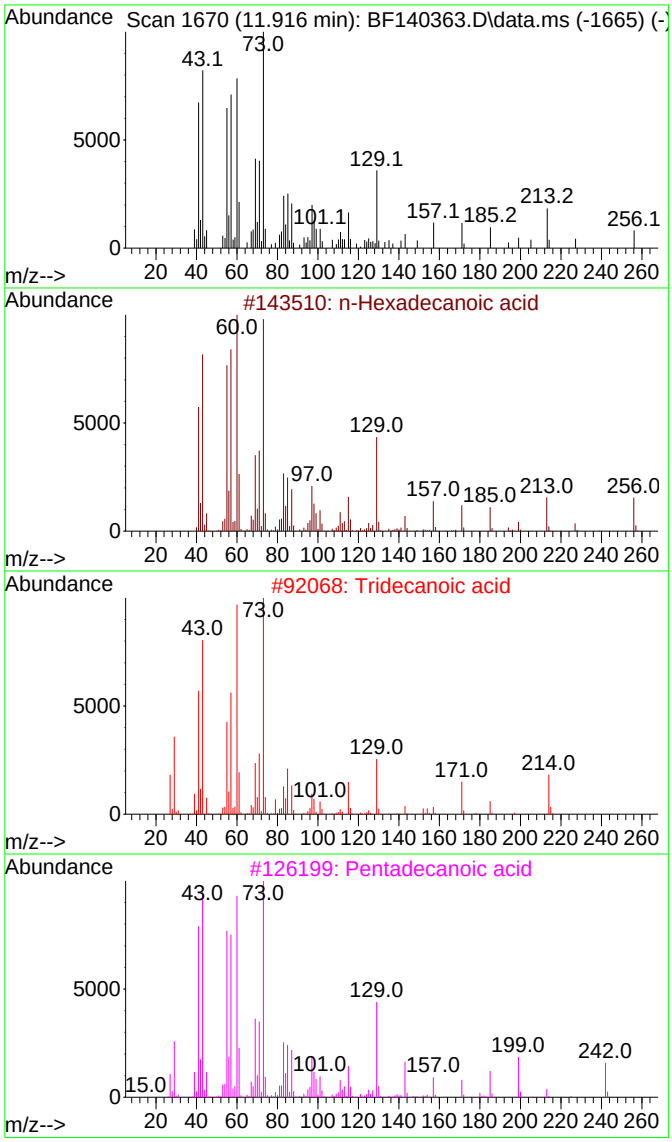
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

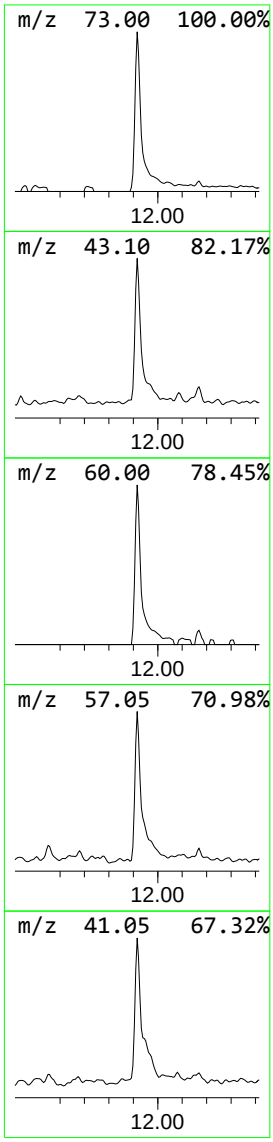
****

Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	3.00 ng	174248	Phenanthrene-d10	11.392

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	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	86
5	n-Decanoic acid	172	C10H20O2	000334-48-5	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140363.D
Acq On : 14 Nov 2024 15:39
Operator : RC/JU
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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...	2.163	222.5	ng	9048170	1	6.869	813239	20.0
Acetic acid, bu...	4.740	3.0	ng	120895	1	6.869	813239	20.0
2-Pentanone, 4-...	5.087	9.4	ng	384092	1	6.869	813239	20.0
Benzophenone	10.621	4.9	ng	288895	3	9.904	1188640	20.0
n-Hexadecanoic ...	11.916	3.0	ng	174248	4	11.392	1162700	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Time: Nov 07 10:52:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	166392	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	650819	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	391148	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	728833	20.000	ng	0.00
76) Chrysene-d12	14.057	240	449594	20.000	ng	0.00
86) Perylene-d12	15.568	264	367483	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1371725	136.619	ng	0.02
7) Phenol-d6	6.504	99	1727752	133.783	ng	0.00
23) Nitrobenzene-d5	7.434	82	1191580	91.029	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	586979	151.820	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2232636	91.144	ng	0.00
79) Terphenyl-d14	12.998	244	2762575	100.656	ng	0.00

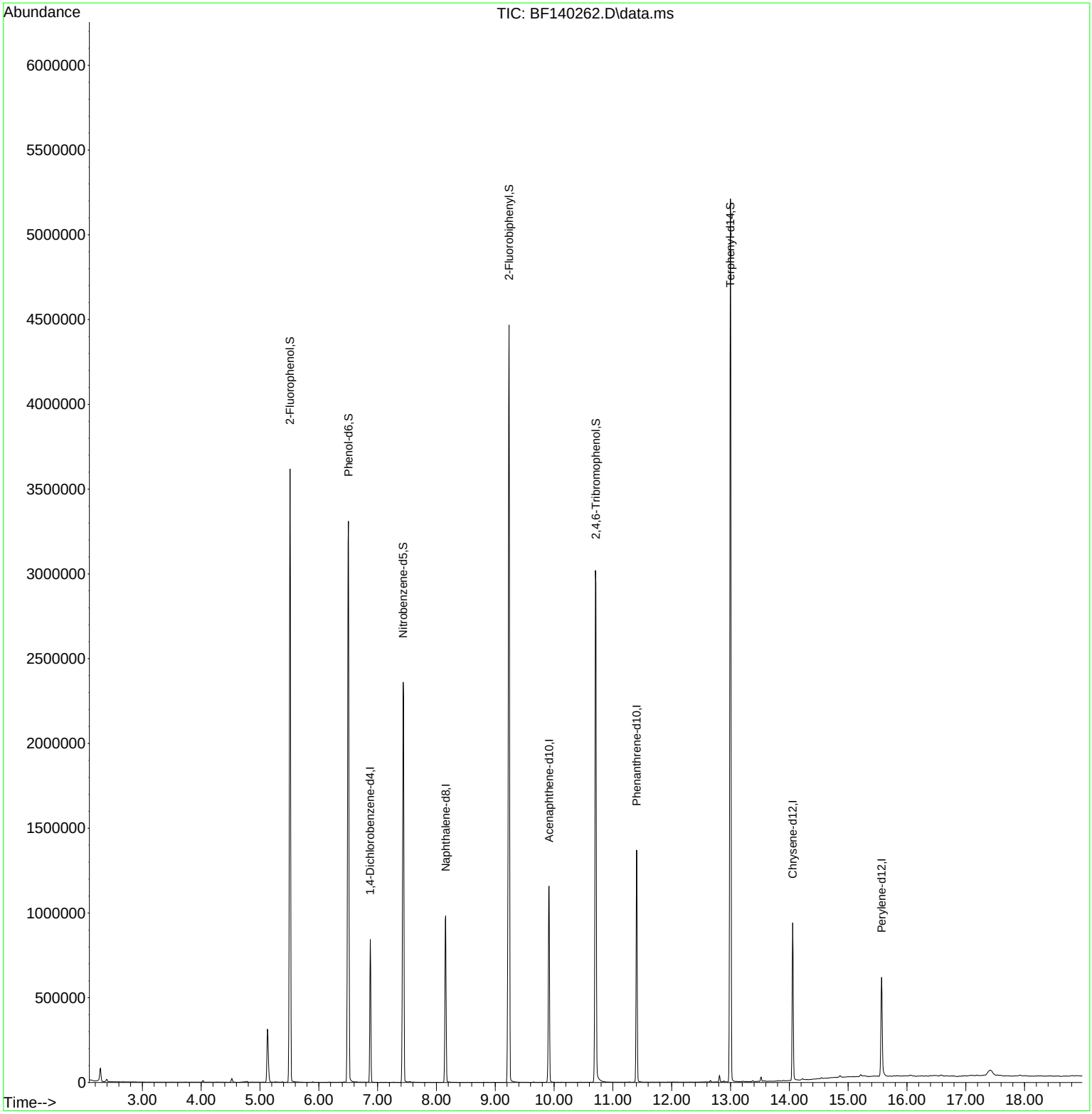
Target Compounds	Qvalue

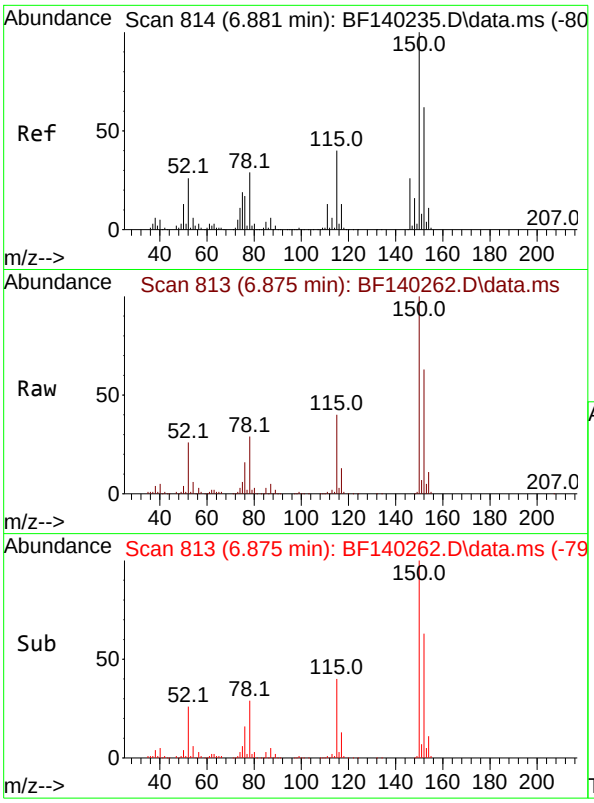
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Time: Nov 07 10:52:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



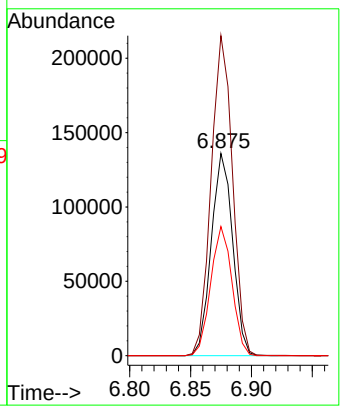


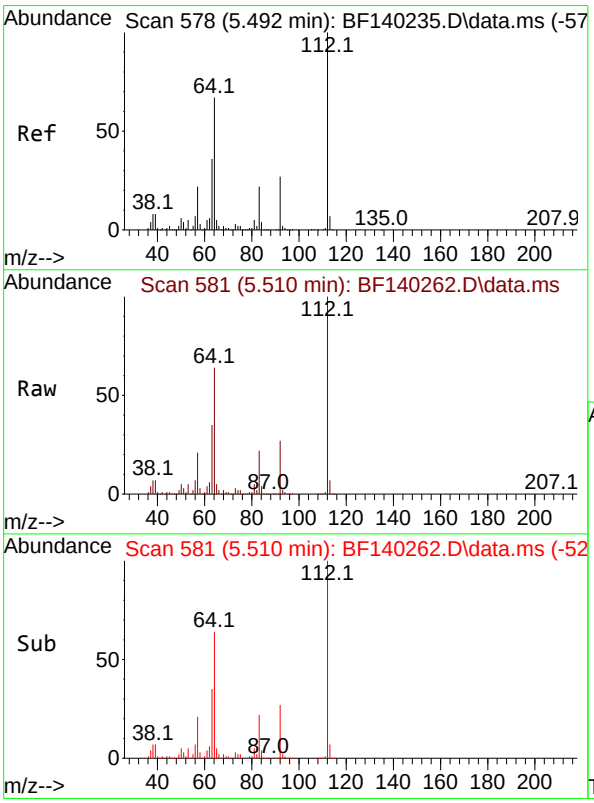
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Tgt Ion:152 Resp: 166392

Ion	Ratio	Lower	Upper
152	100		
150	158.2	129.4	194.2
115	63.8	51.5	77.3

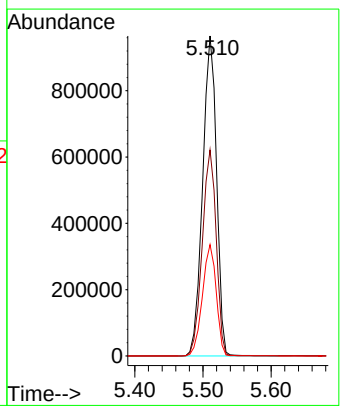


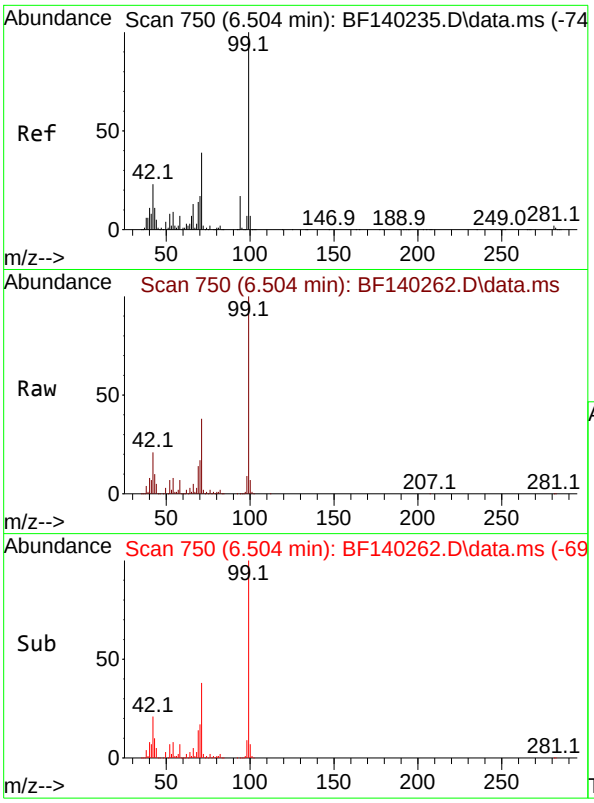


#5
2-Fluorophenol
Concen: 136.619 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.018 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:112 Resp: 1371725

Ion	Ratio	Lower	Upper
112	100		
64	64.4	53.4	80.2
63	34.8	28.9	43.3



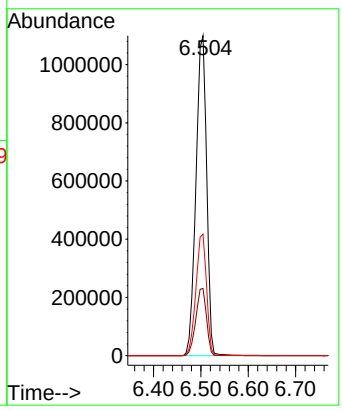


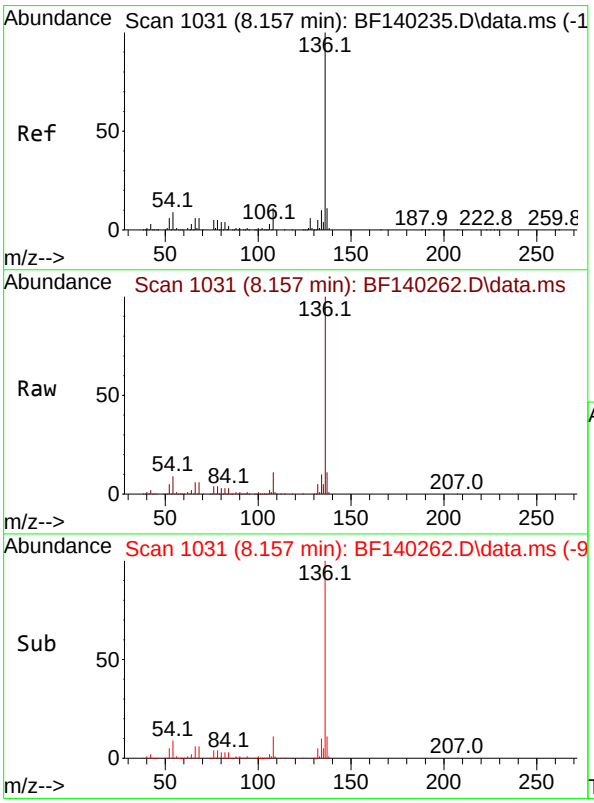
#7
Phenol-d6
Concen: 133.783 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Tgt Ion: 99 Resp: 1727752

Ion	Ratio	Lower	Upper
99	100		
42	21.0	18.2	27.2
71	38.0	30.9	46.3

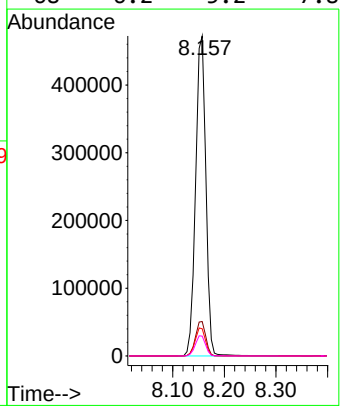


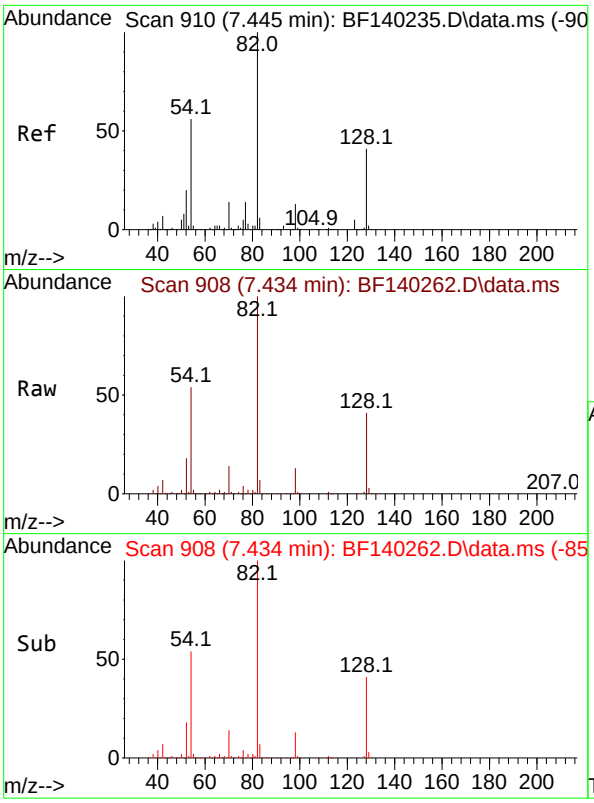


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:136 Resp: 650819

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.6
54	8.5	7.7	11.5
68	6.2	5.2	7.8



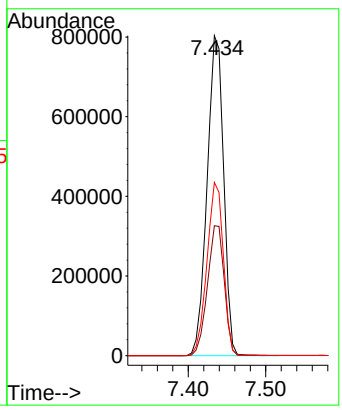


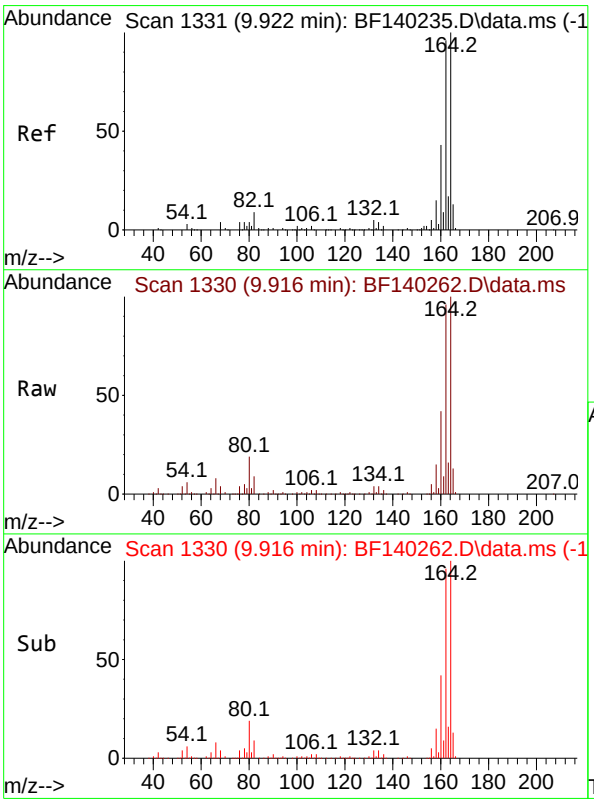
#23
Nitrobenzene-d5
Concen: 91.029 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Tgt Ion: 82 Resp: 1191580

Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.8	49.2
54	54.2	44.3	66.5

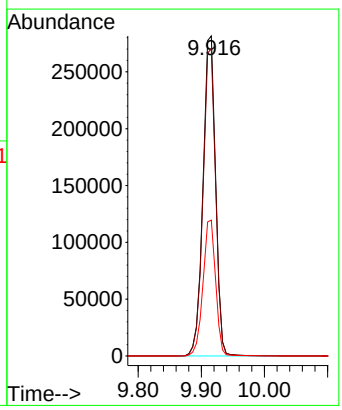


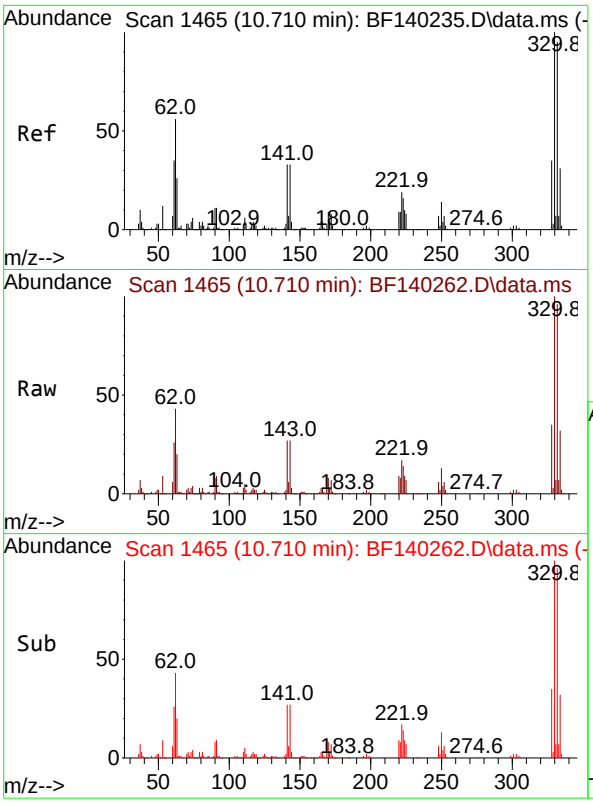


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:164 Resp: 391148

Ion	Ratio	Lower	Upper
164	100		
162	96.0	77.0	115.4
160	42.4	34.1	51.1



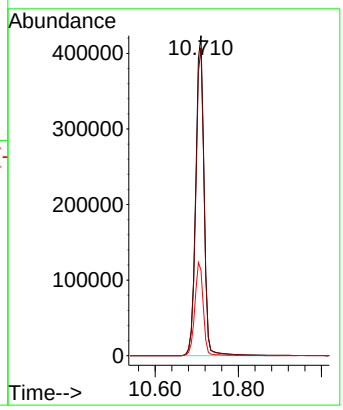


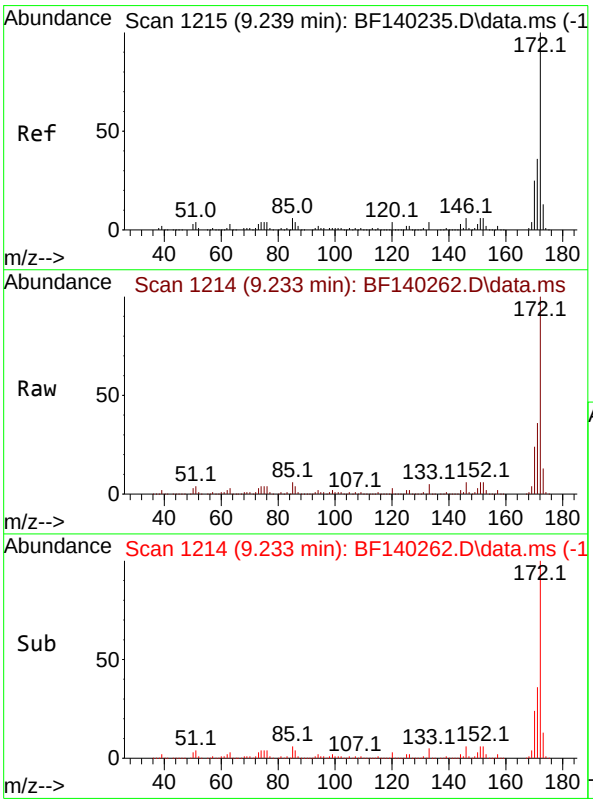
#42
2,4,6-Tribromophenol
Concen: 151.820 ng
RT: 10.710 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Tgt Ion:330 Resp: 586979

Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.4	114.6
141	29.7	27.0	40.4

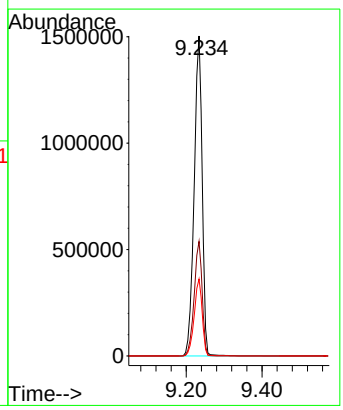


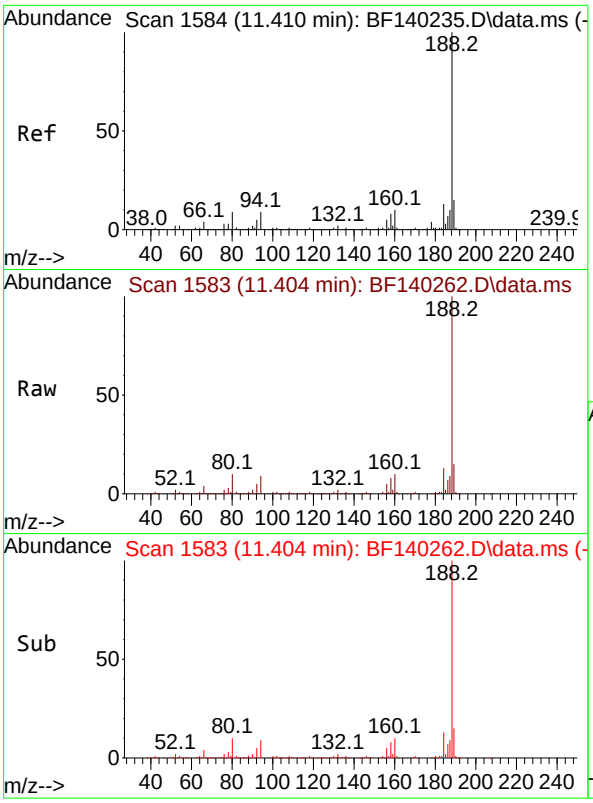


#45
2-Fluorobiphenyl
Concen: 91.144 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:172 Resp: 2232636

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	24.1	19.6	29.4



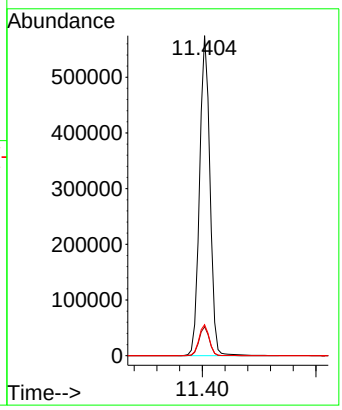


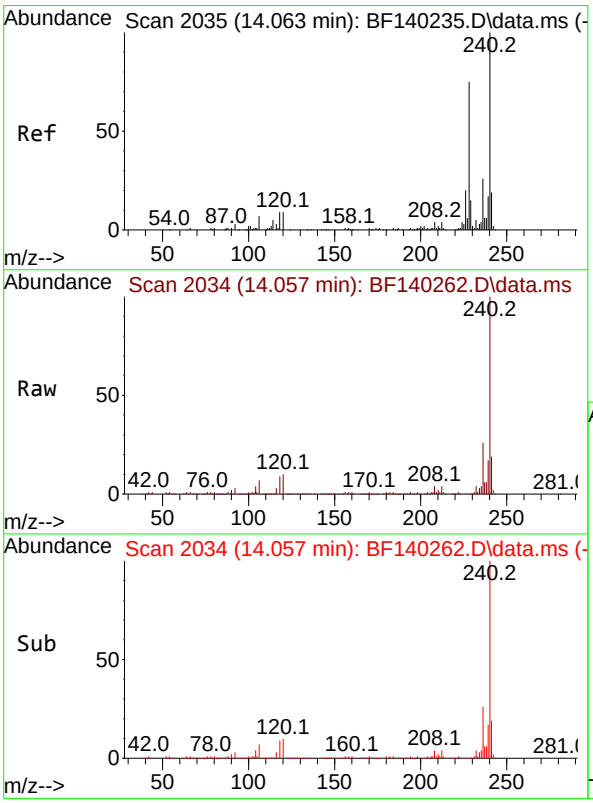
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Tgt Ion:188 Resp: 728833

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.9	10.3
80	9.7	7.5	11.3

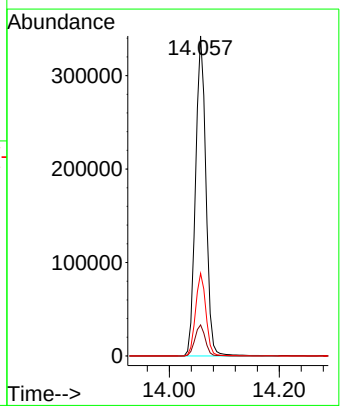


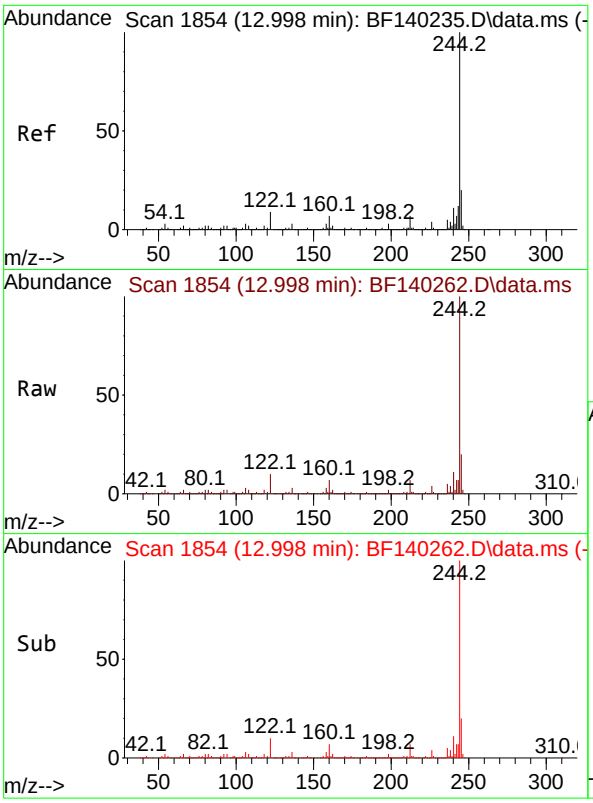


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. -0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:240 Resp: 449594

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.5	11.3
236	25.8	20.9	31.3



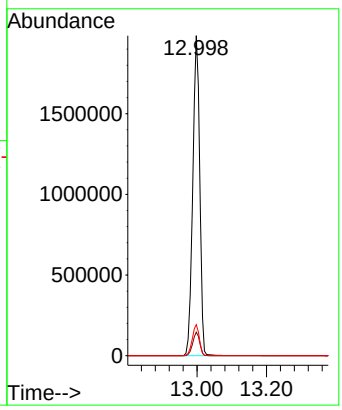


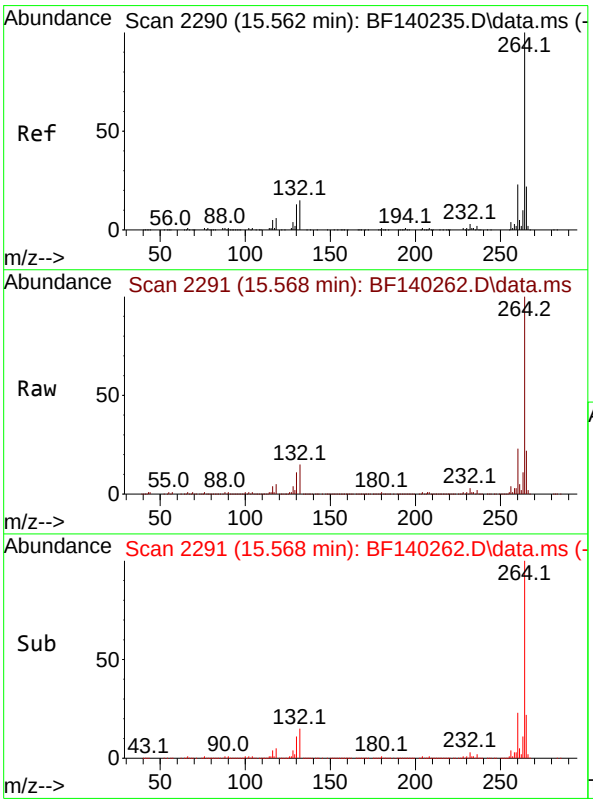
#79
Terphenyl-d14
Concen: 100.656 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Tgt Ion:244 Resp: 2762575

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	9.7	7.6	11.4

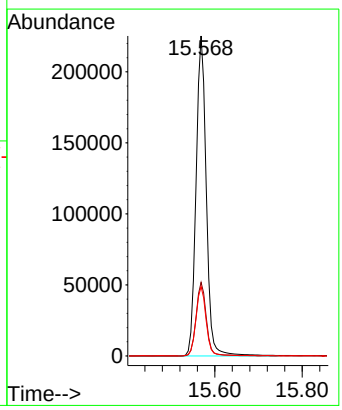




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2291
Delta R.T. 0.006 min
Lab File: BF140262.D
Acq: 07 Nov 2024 09:28

Tgt Ion:264 Resp: 367483

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.8	28.2
265	21.7	17.3	25.9



Sample Results: **BF140262.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

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-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140262.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.287	26	33	39	rVB	77146	132721	1.84%	0.328%
2	5.128	509	516	534	rBV	313380	540358	7.49%	1.334%
3	5.510	574	581	586	rBV	3617797	5118542	70.97%	12.639%
4	6.504	742	750	755	rBV	3309957	5159157	71.53%	12.739%
5	6.875	808	813	818	rBV	841885	1023737	14.19%	2.528%
6	7.434	901	908	914	rBV	2361152	3499568	48.52%	8.641%
7	8.157	1024	1031	1036	rBV	981813	1348510	18.70%	3.330%
8	9.234	1206	1214	1219	rBV	4467775	6569631	91.09%	16.222%
9	9.916	1322	1330	1335	rBV	1155959	1605884	22.27%	3.965%
10	10.704	1456	1464	1499	rBV	3018675	4352303	60.35%	10.747%
11	11.404	1576	1583	1604	rBV	1369851	1727144	23.95%	4.265%
12	12.998	1847	1854	1859	rBV	5208345	7212283	100.00%	17.809%
13	14.057	2028	2034	2046	rBV	930597	1232162	17.08%	3.043%
14	15.568	2285	2291	2309	rVB	584109	975348	13.52%	2.408%

Sum of corrected areas: 40497348

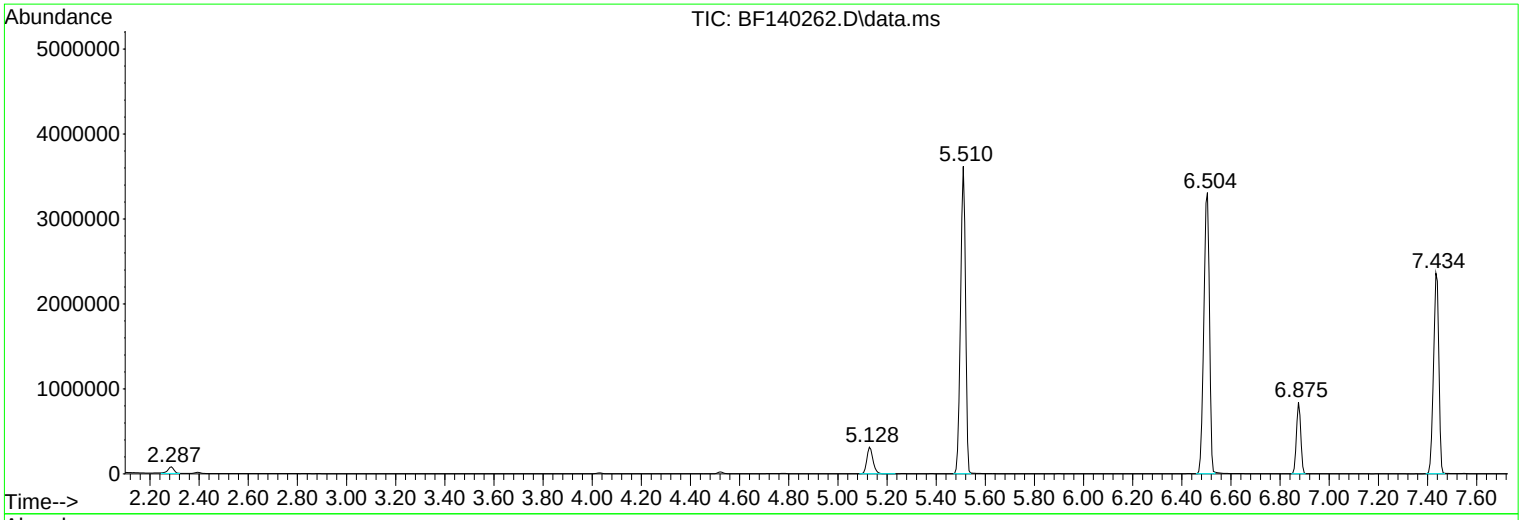
Sample Results: **BF140262.D**

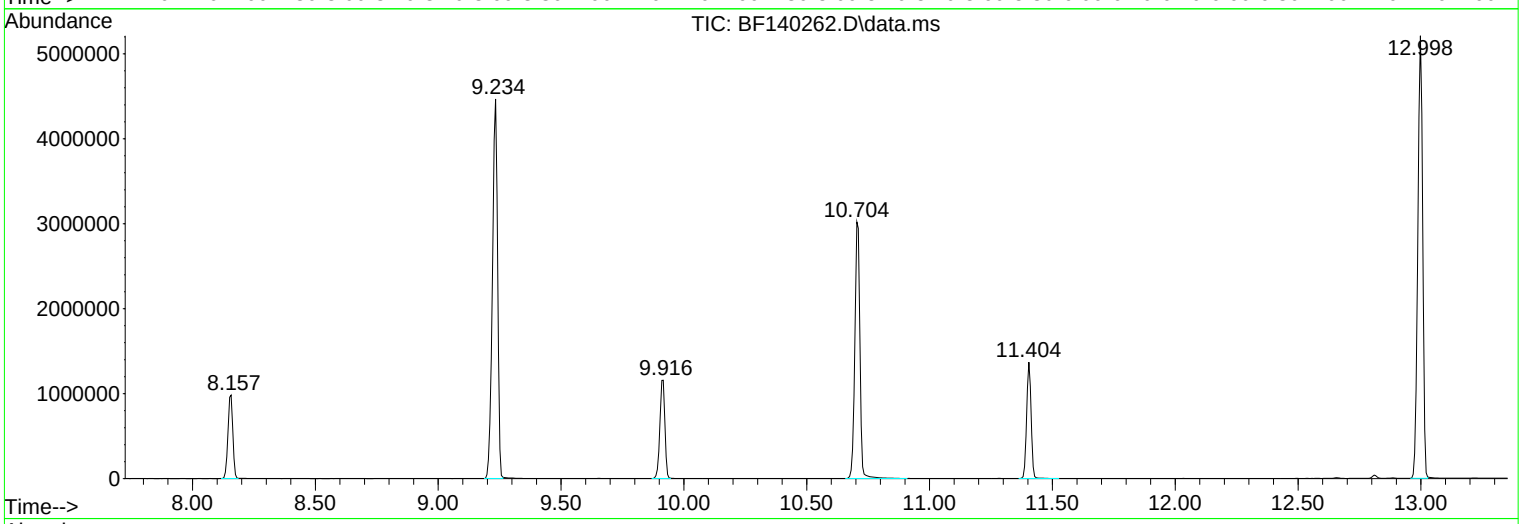
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

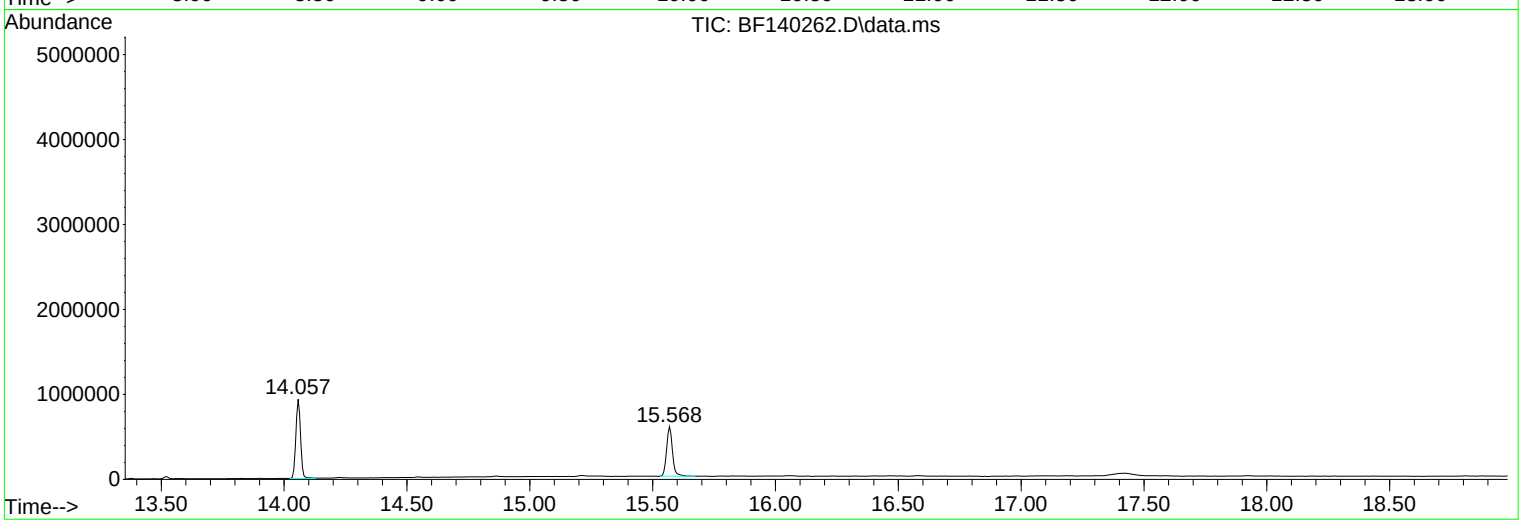
Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

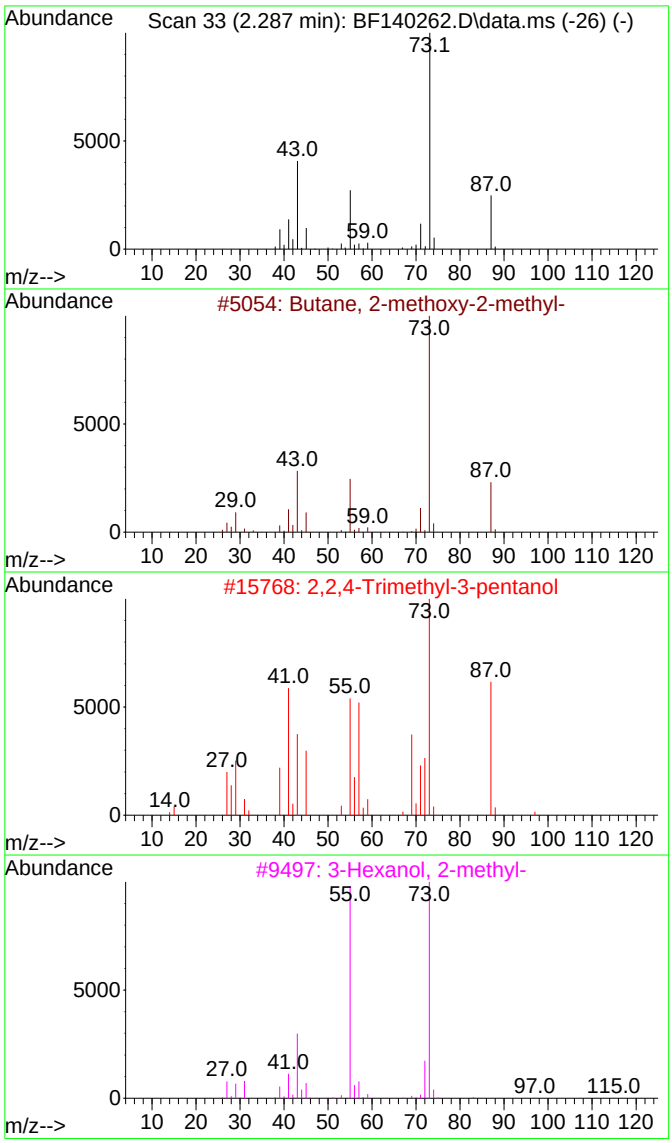
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

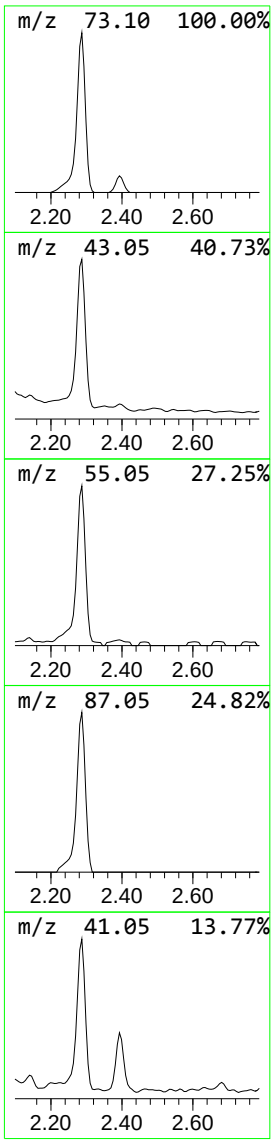
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.287	2.59 ng	132721	1,4-Dichlorobenzene-d4	6.875

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	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	25
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\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

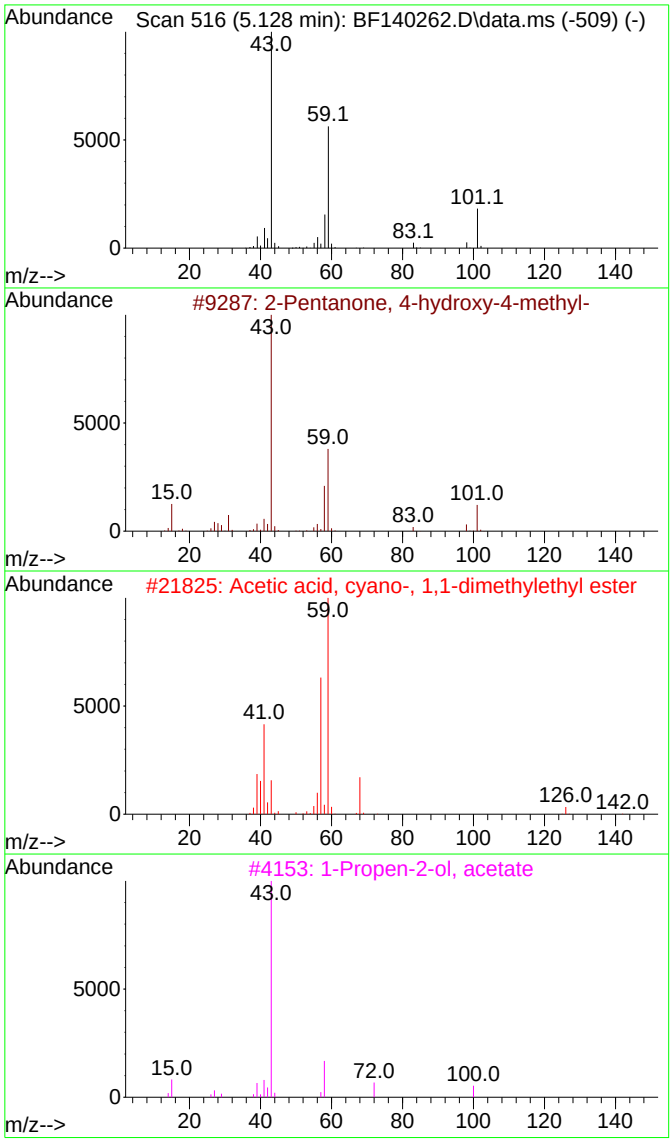
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

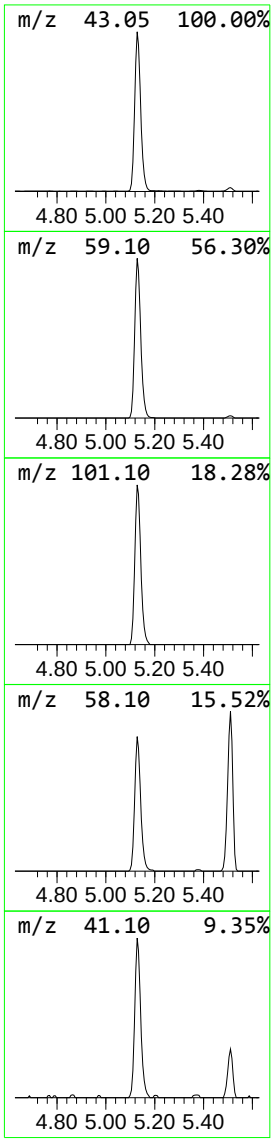
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.128	10.56 ng	540358	1,4-Dichlorobenzene-d4	6.875

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140262.D
Acq On : 07 Nov 2024 09:28
Operator : RC/JU
Sample : PB164702BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164702BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.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...	2.287	2.6	ng	132721	1	6.875	1023740	20.0
2-Pentanone, 4-...	5.128	10.6	ng	540358	1	6.875	1023740	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Time: Nov 15 00:27:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

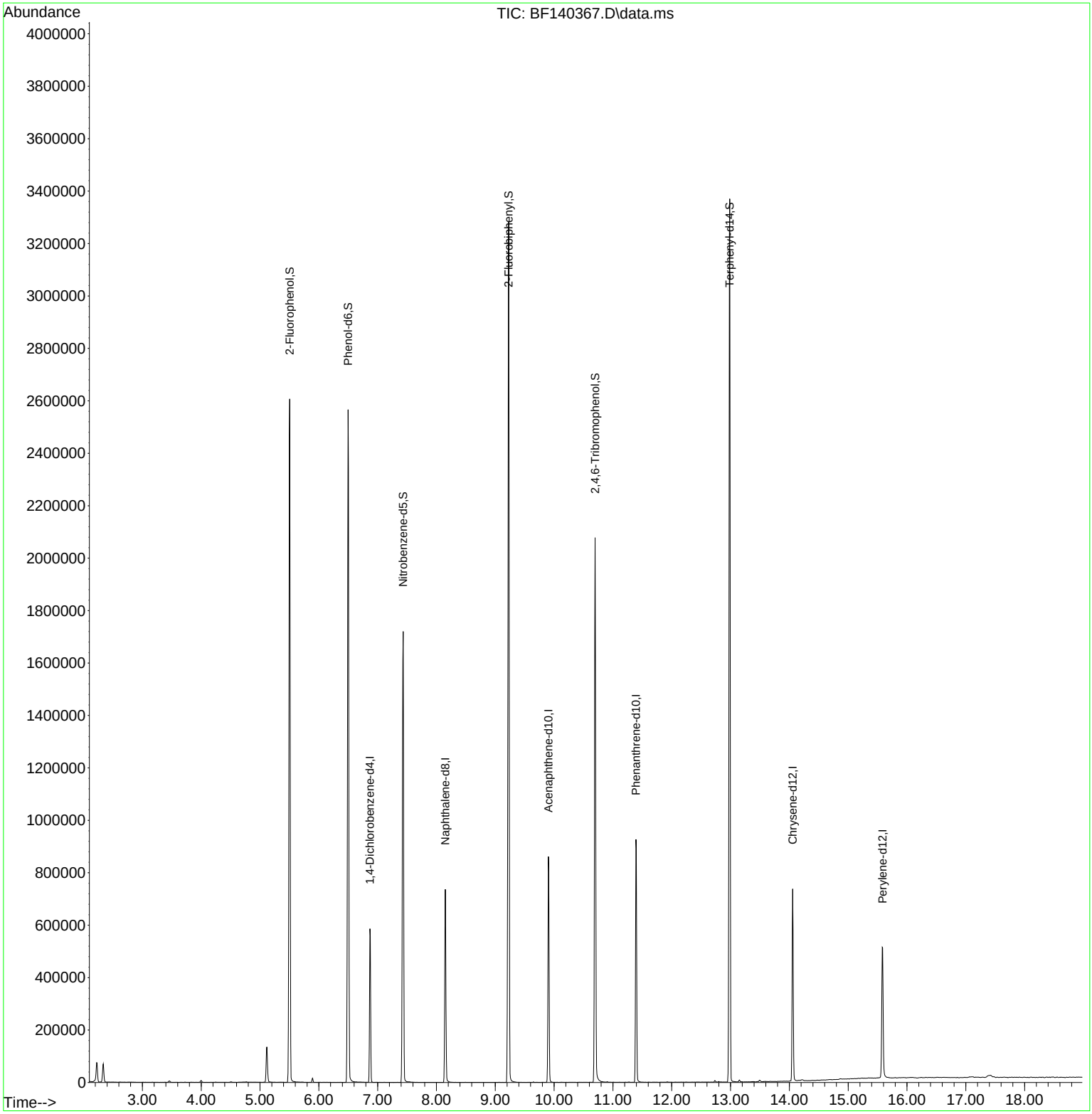
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	127444	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	481597	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	267971	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	519861	20.000	ng	-0.01
76) Chrysene-d12	14.057	240	353605	20.000	ng	0.00
86) Perylene-d12	15.586	264	317877	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1010890	135.430	ng	0.01
7) Phenol-d6	6.498	99	1317260	130.255	ng	0.00
23) Nitrobenzene-d5	7.434	82	853691	92.359	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	359138	134.773	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1560454	93.611	ng	0.00
79) Terphenyl-d14	12.986	244	1733695	85.104	ng	0.00
Target Compounds						Qvalue

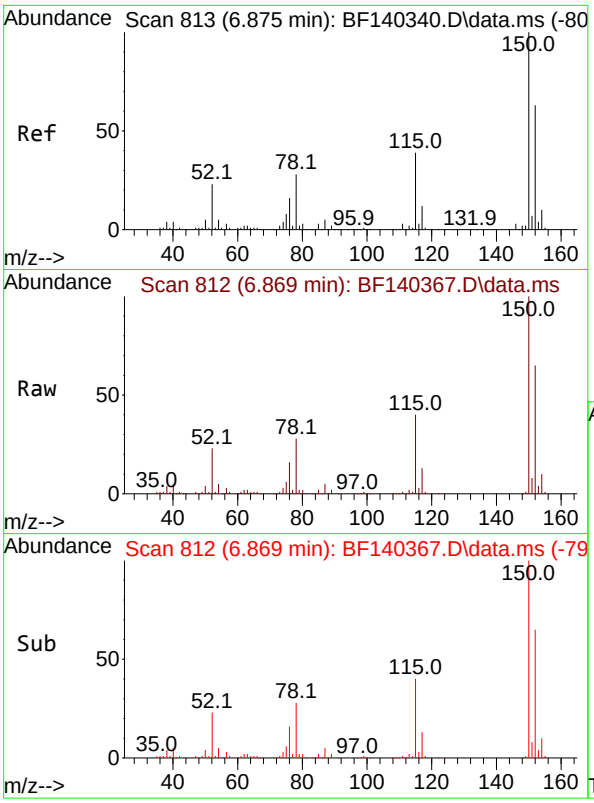
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Time: Nov 15 00:27:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



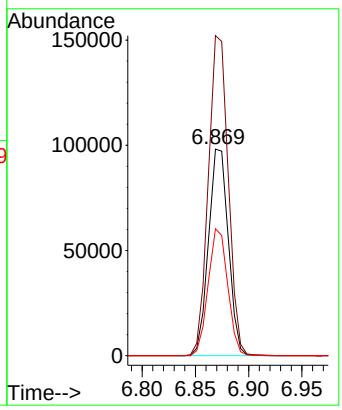


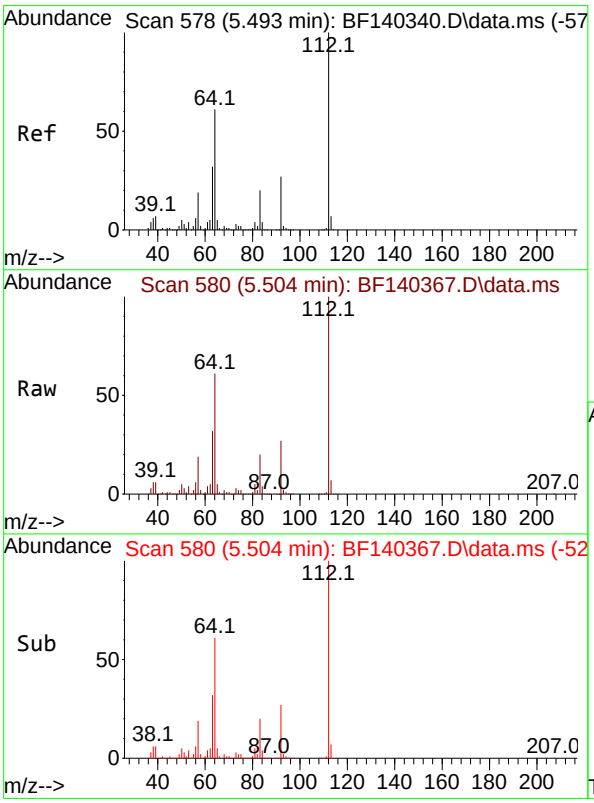
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Tgt Ion:152 Resp: 127444

Ion	Ratio	Lower	Upper
152	100		
150	154.9	127.4	191.0
115	61.4	47.4	71.2

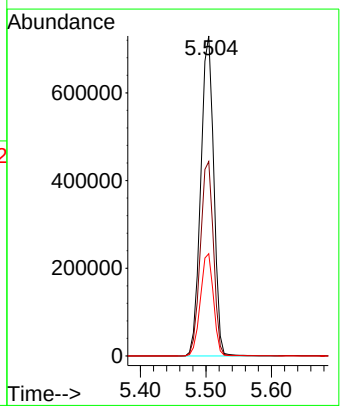


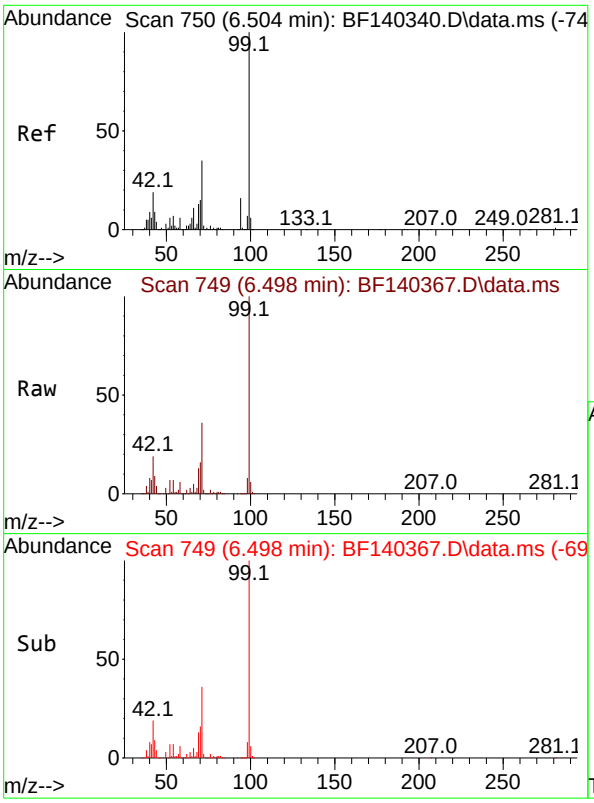


#5
2-Fluorophenol
Concen: 135.430 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion:112 Resp: 1010890

Ion	Ratio	Lower	Upper
112	100		
64	60.8	49.2	73.8
63	31.9	25.6	38.4



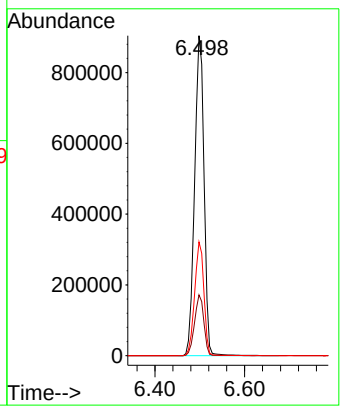


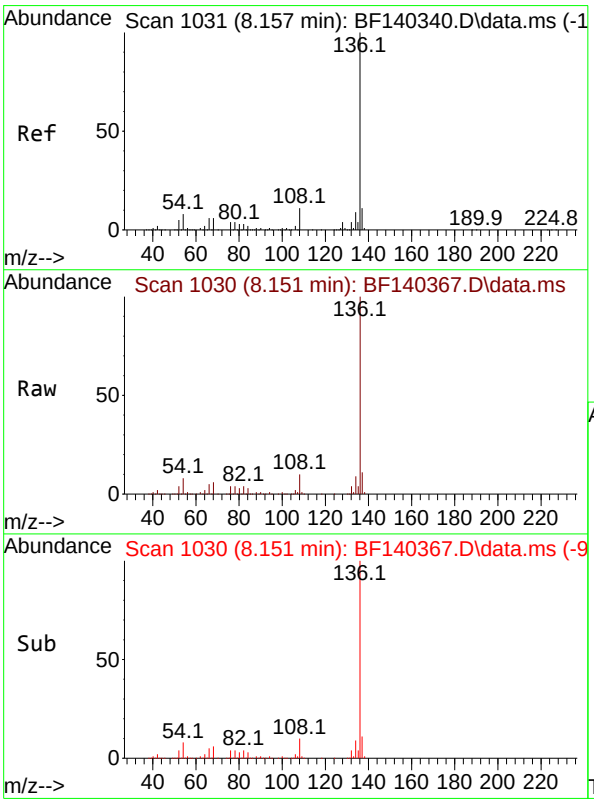
#7
Phenol-d6
Concen: 130.255 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Tgt Ion: 99 Resp: 1317260

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.1	22.7
71	35.5	27.9	41.9

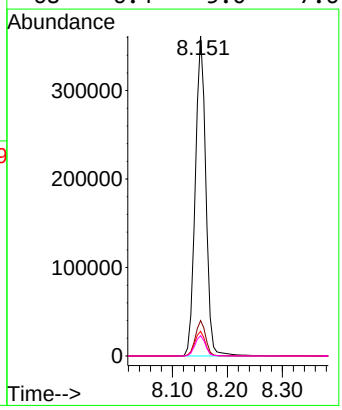


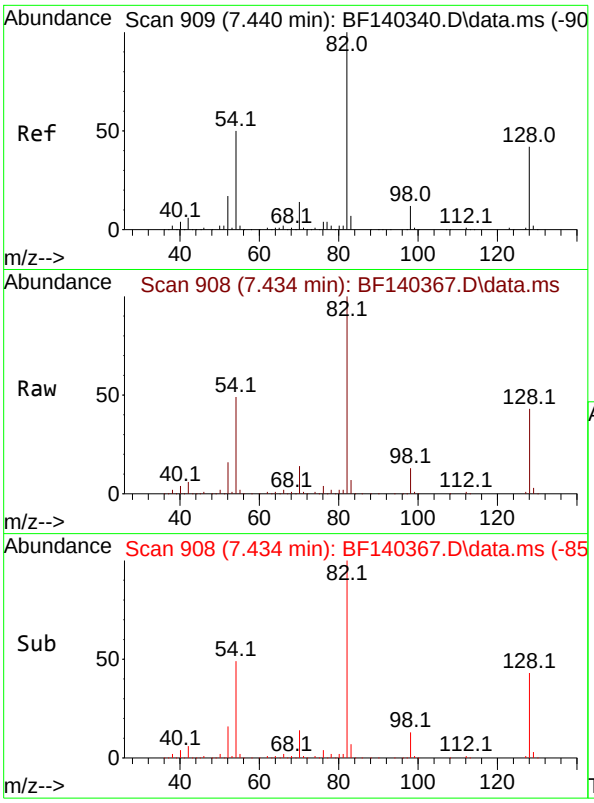


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion:136 Resp: 481597

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	7.7	6.5	9.7
68	6.4	5.0	7.6



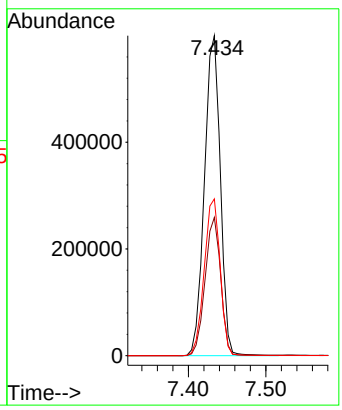


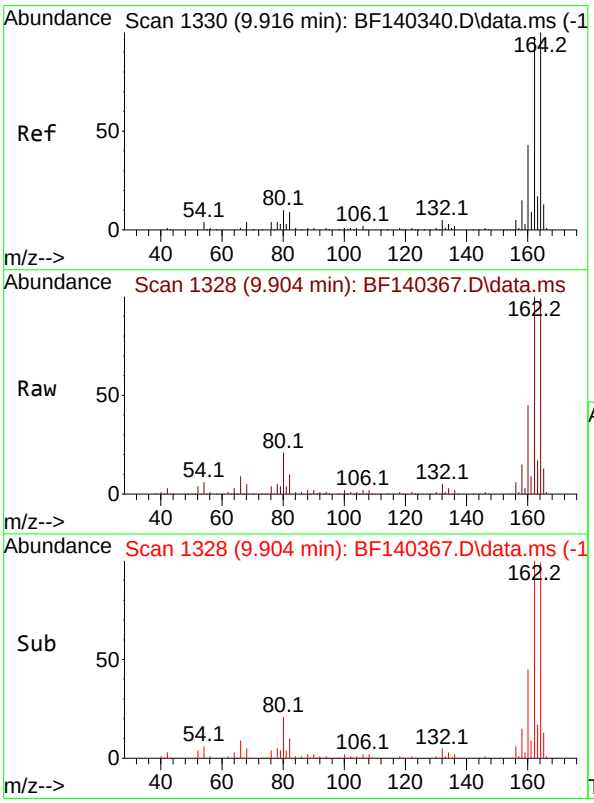
#23
Nitrobenzene-d5
Concen: 92.359 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Tgt Ion: 82 Resp: 853691

Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.3	49.9
54	49.0	39.8	59.8

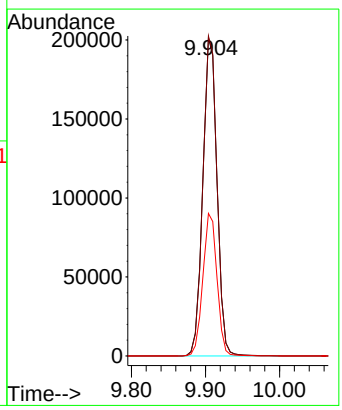


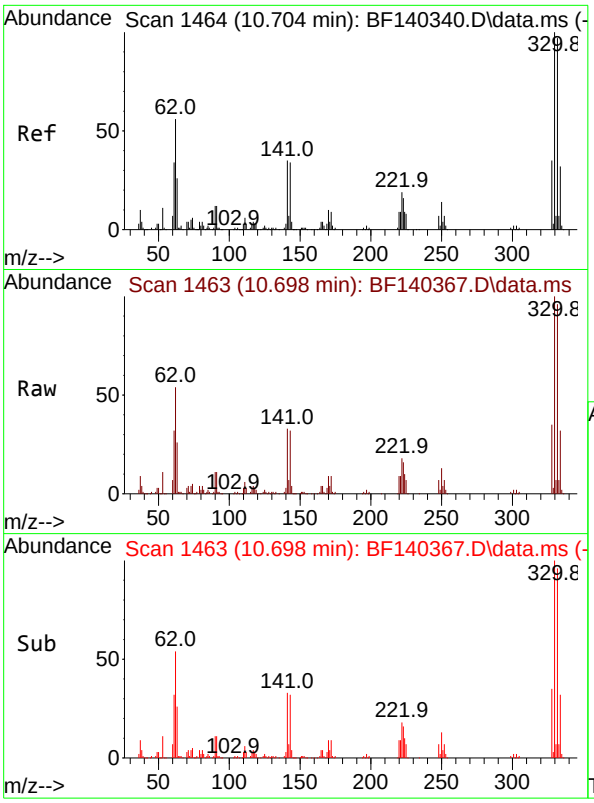


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion:164 Resp: 267971

Ion	Ratio	Lower	Upper
164	100		
162	100.5	79.8	119.8
160	44.8	35.4	53.0



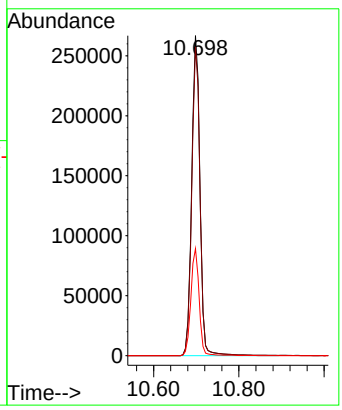


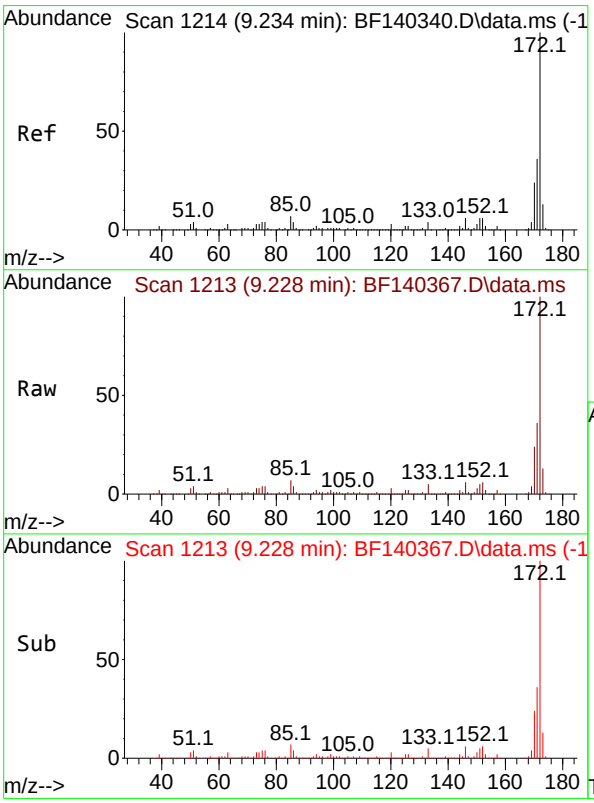
#42
2,4,6-Tribromophenol
Concen: 134.773 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Tgt Ion:330 Resp: 359138

Ion	Ratio	Lower	Upper
330	100		
332	96.8	75.9	113.9
141	33.5	26.9	40.3

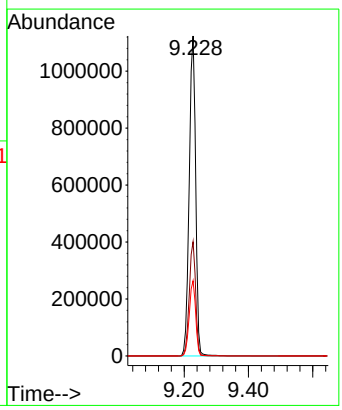


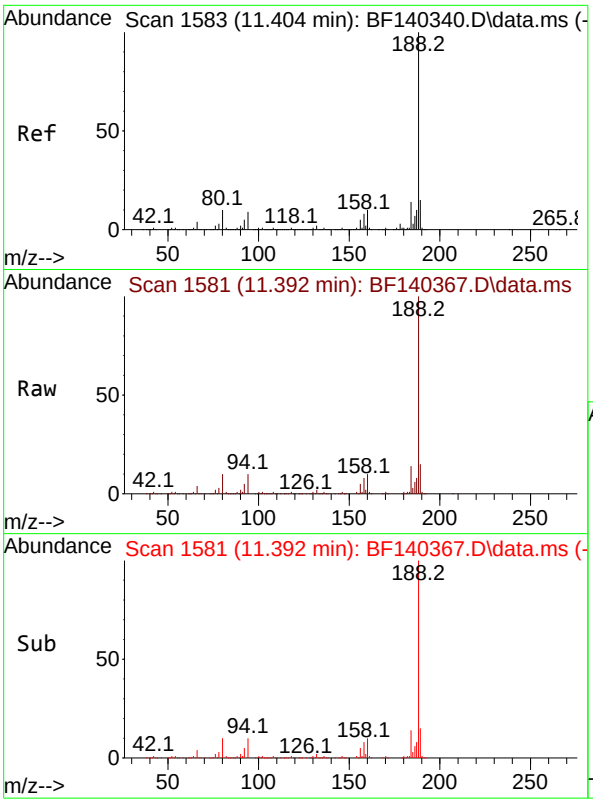


#45
2-Fluorobiphenyl
Concen: 93.611 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion:172 Resp: 1560454

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.5	42.7
170	23.5	19.1	28.7



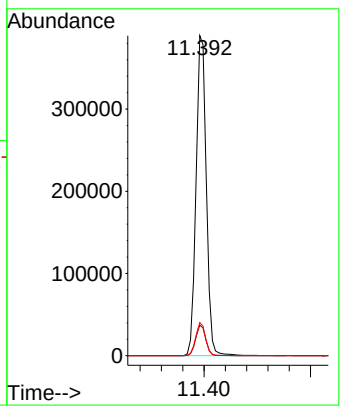


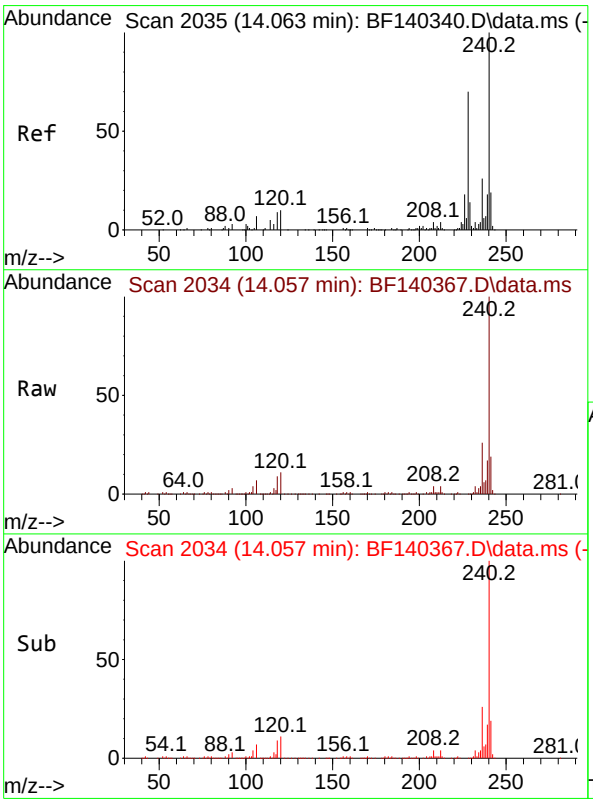
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Tgt Ion:188 Resp: 519861

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.6	11.4
80	10.4	8.0	12.0

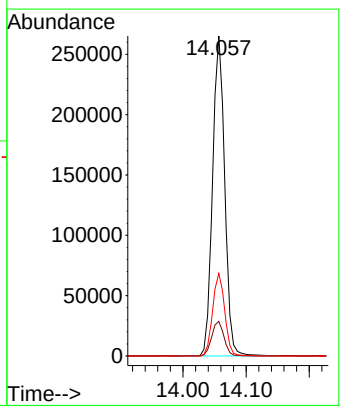


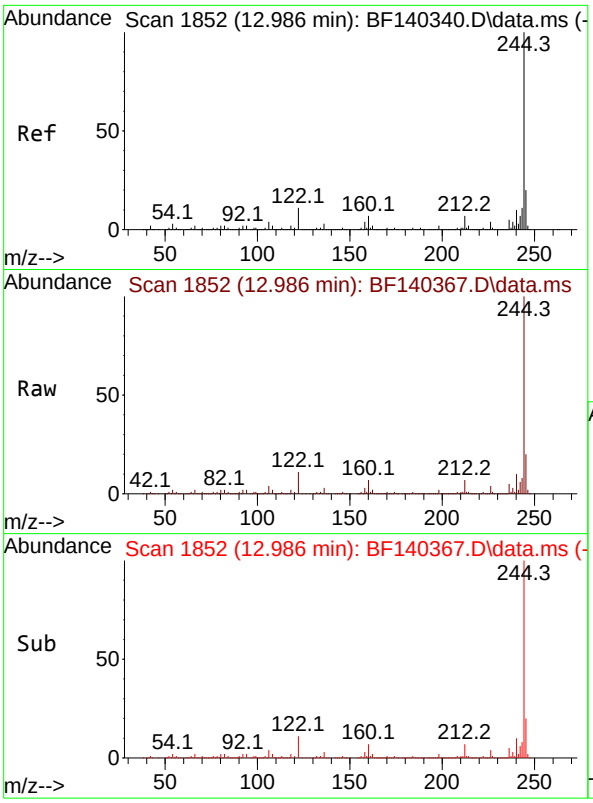


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion:240 Resp: 353605

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.8	13.2
236	25.8	20.9	31.3



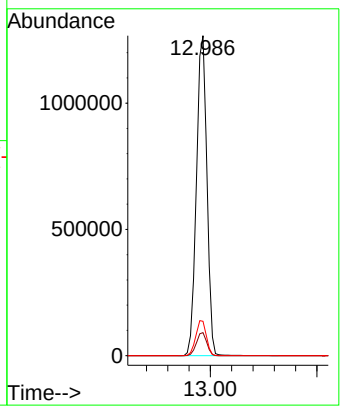


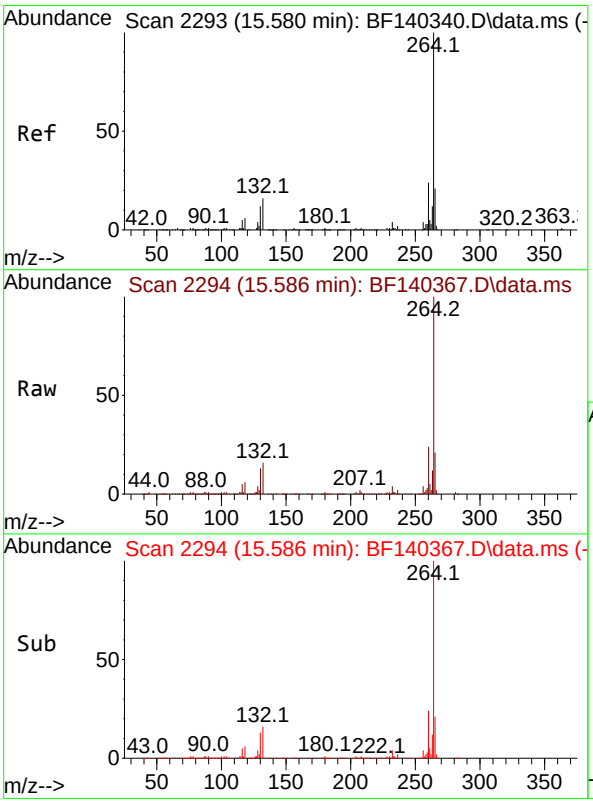
#79
Terphenyl-d14
Concen: 85.104 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Tgt Ion:244 Resp: 1733695

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	10.8	8.8	13.2

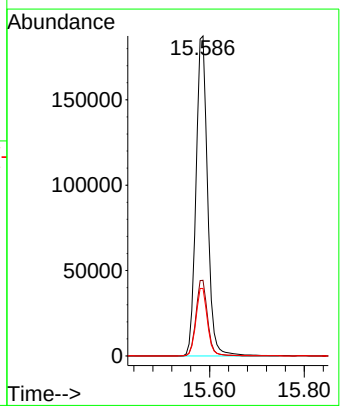




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.586 min Scan# 2294
Delta R.T. 0.029 min
Lab File: BF140367.D
Acq: 14 Nov 2024 17:28

Tgt Ion:264 Resp: 317877

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	21.1	17.1	25.7



Sample Results: **BF140367.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140367.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.222	11	22	29	rVB	74186	135219	2.93%	0.482%
2	2.334	35	41	49	rBV	68828	106619	2.31%	0.380%
3	5.116	508	514	528	rBV	134773	215579	4.67%	0.769%
4	5.504	573	580	585	rBV	2606766	3611985	78.17%	12.881%
5	6.498	742	749	770	rBV	2565745	3727983	80.68%	13.295%
6	6.869	807	812	818	rBV	585530	747257	16.17%	2.665%
7	7.434	901	908	913	rBV	1720240	2432787	52.65%	8.676%
8	8.151	1024	1030	1049	rBV	736258	971791	21.03%	3.466%
9	9.228	1206	1213	1218	rBV	3281770	4514600	97.70%	16.100%
10	9.904	1322	1328	1343	rBV	861013	1133422	24.53%	4.042%
11	10.698	1457	1463	1492	rBV	2077370	2797099	60.53%	9.975%
12	11.392	1576	1581	1598	rVB	926202	1223412	26.48%	4.363%
13	12.986	1845	1852	1857	rBV	3369008	4620853	100.00%	16.479%
14	14.057	2028	2034	2046	rBV	732085	969525	20.98%	3.458%
15	15.580	2287	2293	2307	rVB	496037	832879	18.02%	2.970%

Sum of corrected areas: 28041010

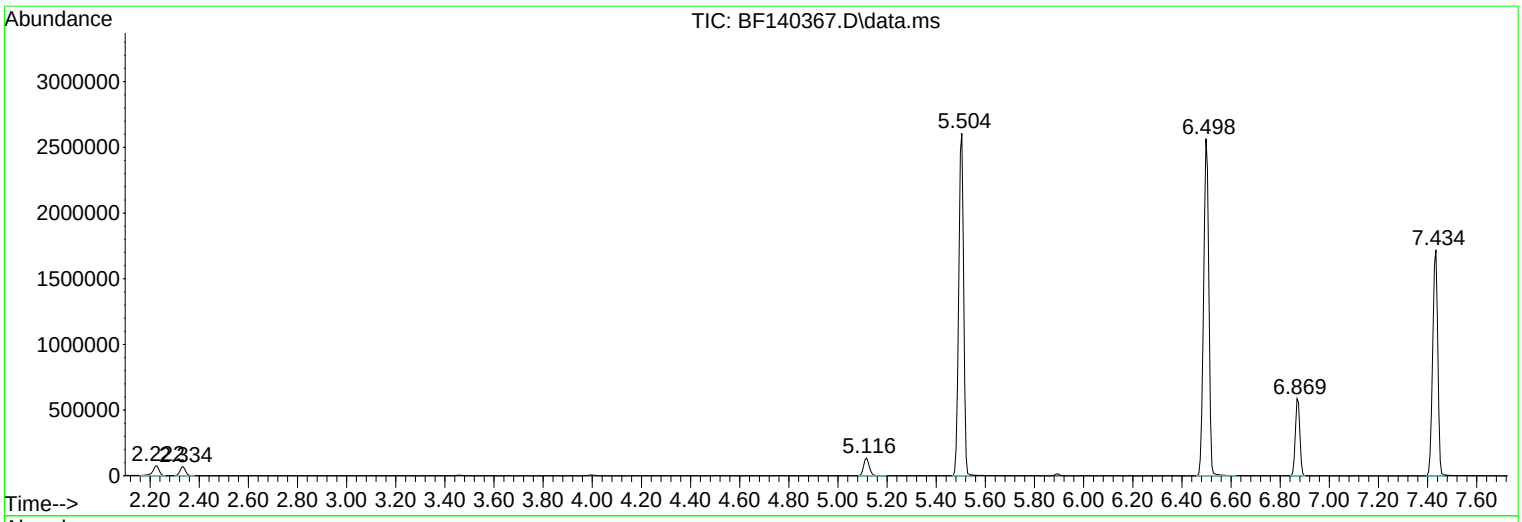
Sample Results: **BF140367.D**

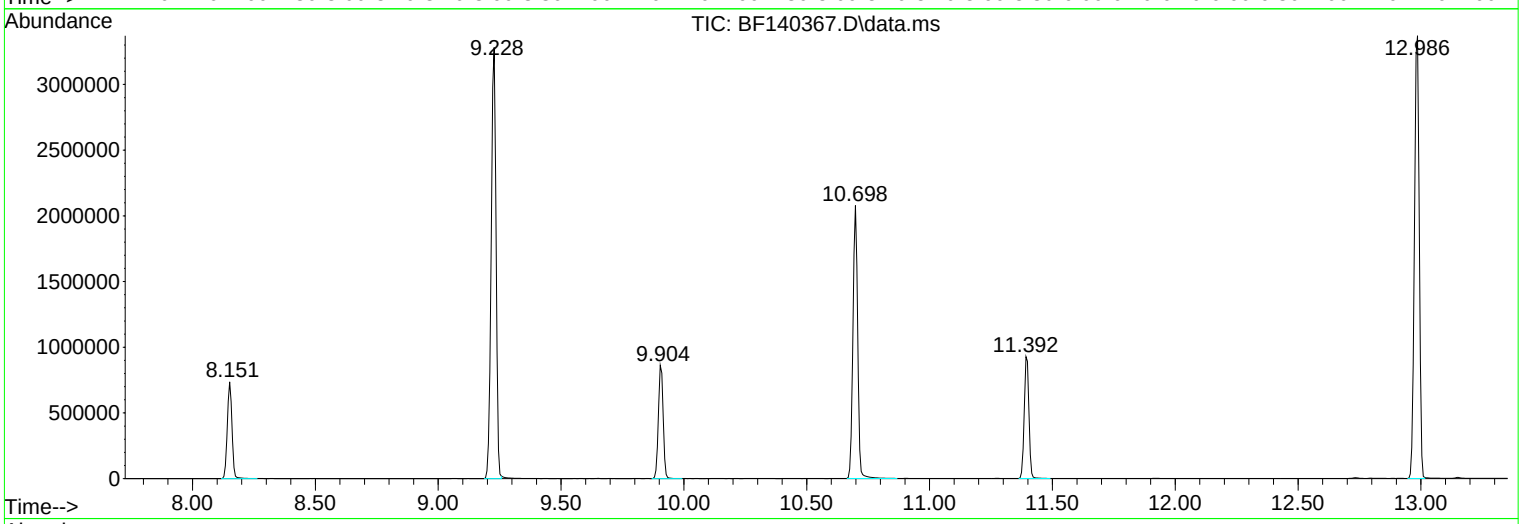
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

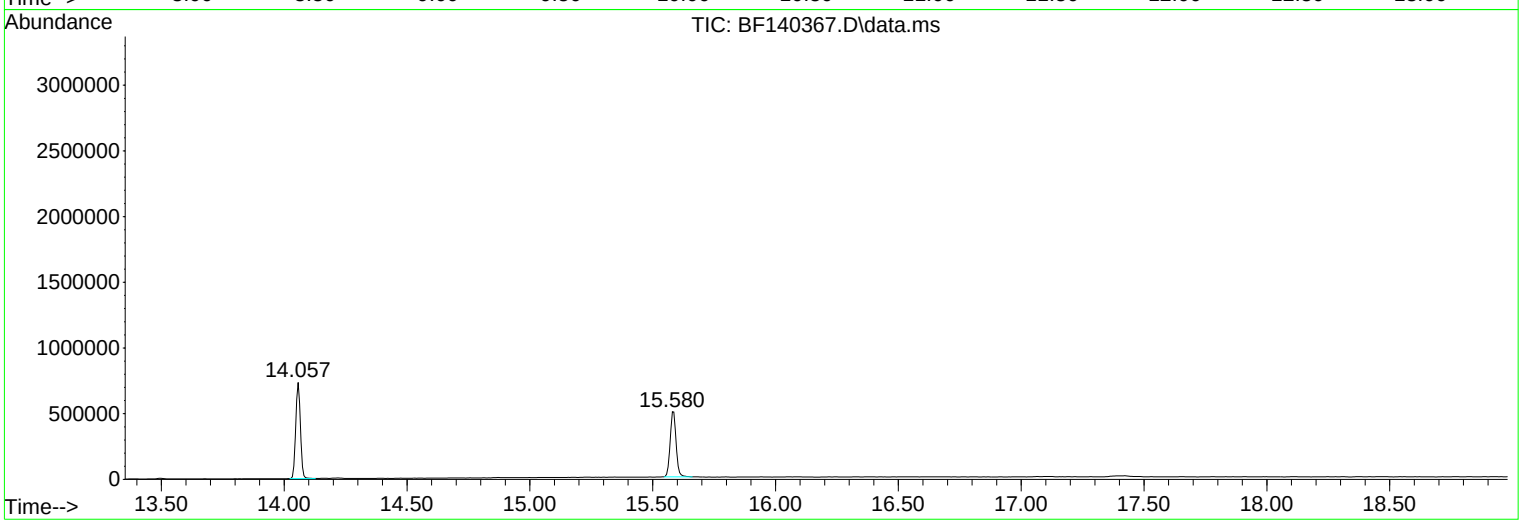
Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

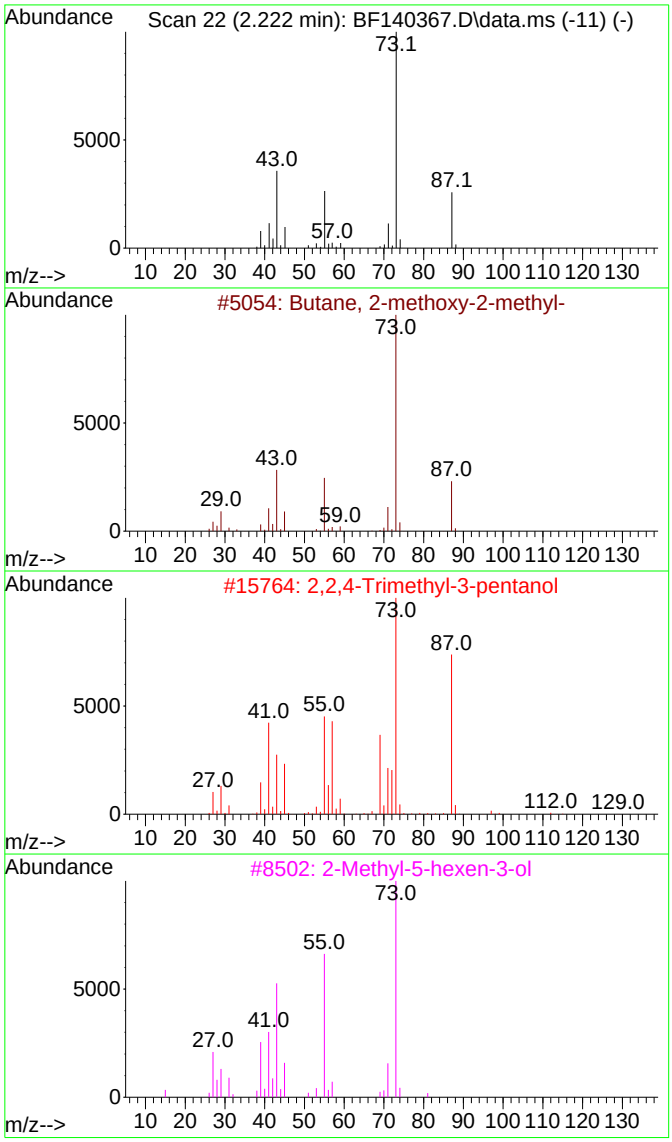
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

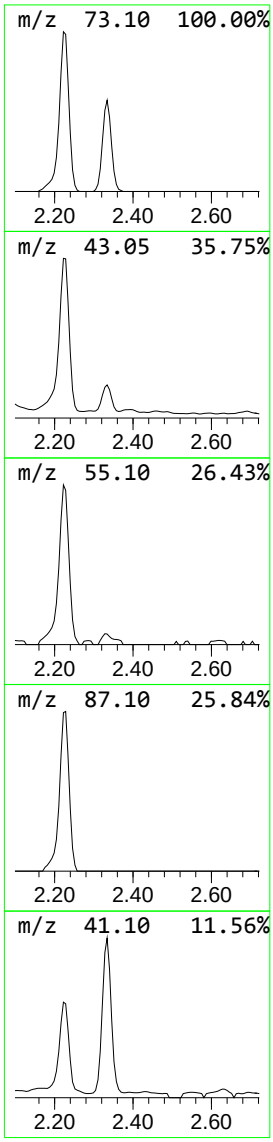
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.222	3.62 ng	135219	1,4-Dichlorobenzene-d4	6.869

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	40
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

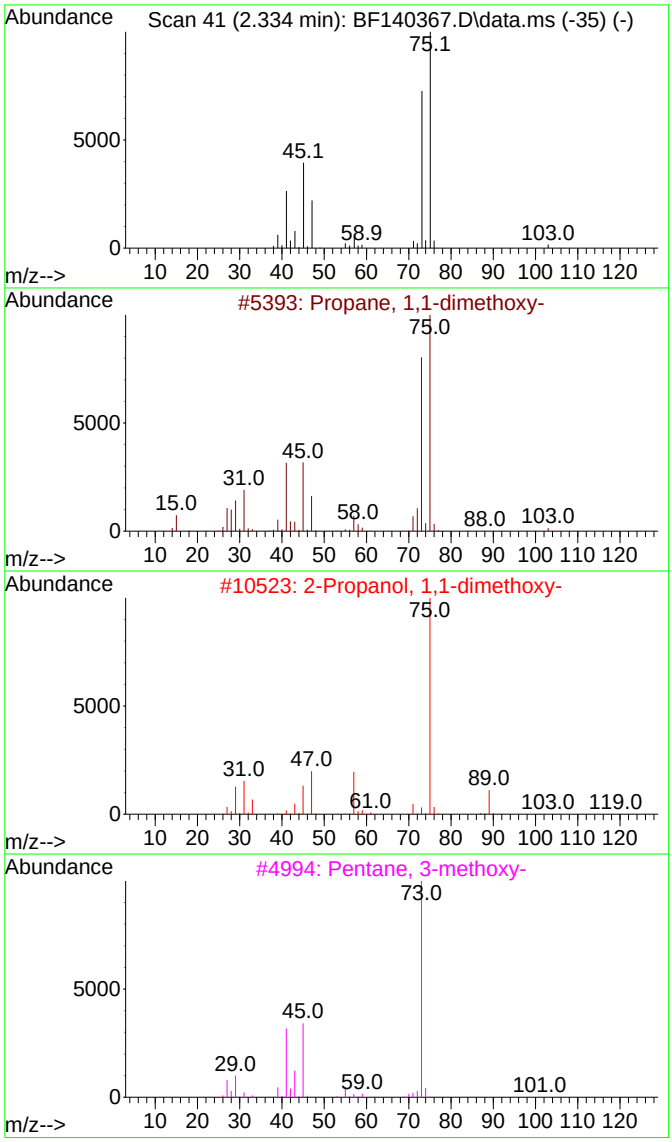
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

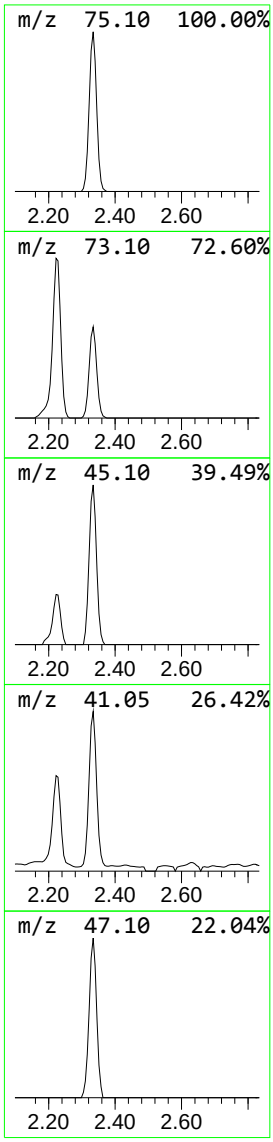
****

Peak Number 2 Propane, 1,1-dimethoxy- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.334	2.85 ng	106619	1,4-Dichlorobenzene-d4	6.869

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	78
2	2-Propanol, 1,1-dimethoxy-	120	C5H12O3	042919-42-6	36
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	22
4	1,3-Dioxolane, 2-(1-bromoethyl)-	180	C5H9BrO2	005267-73-2	12
5	Thiocyanic acid, methyl ester	73	C2H3NS	000556-64-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

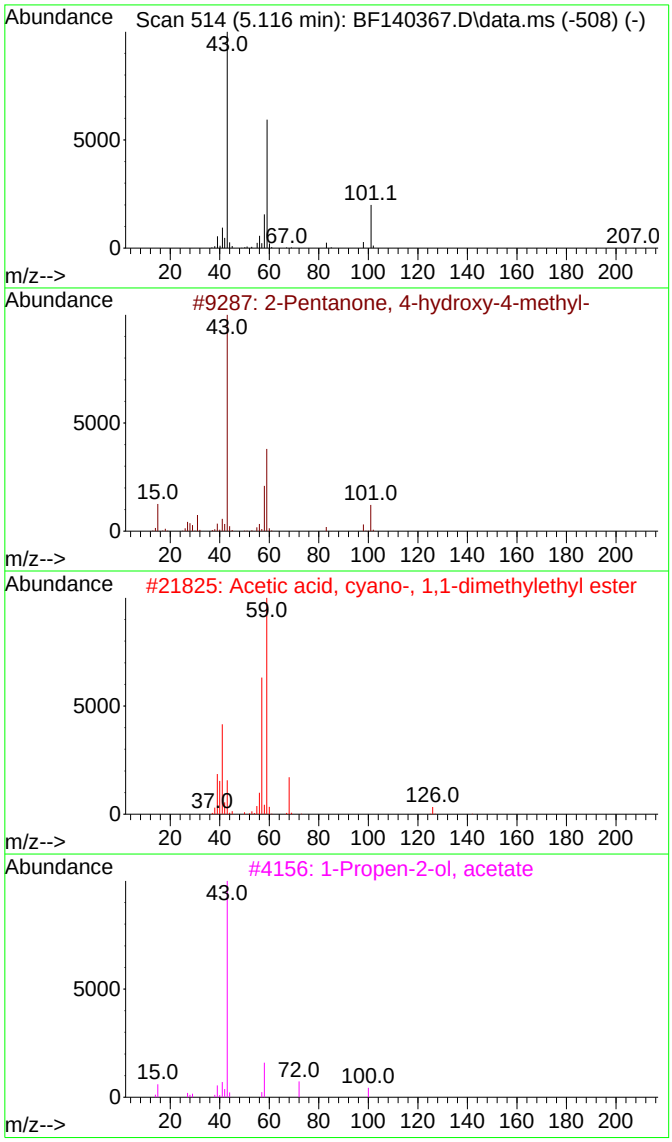
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

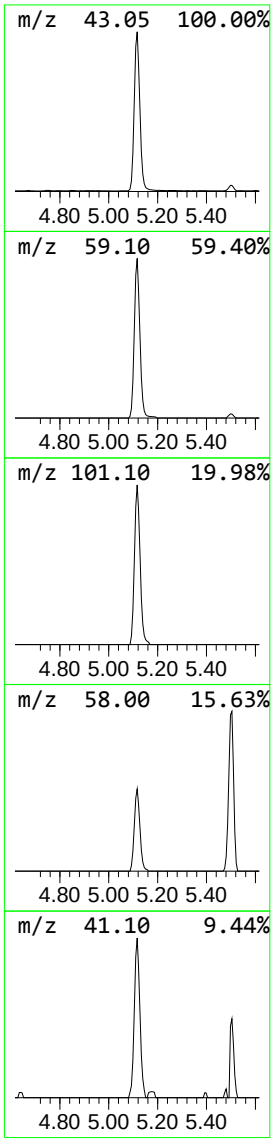
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	5.77 ng	215579	1,4-Dichlorobenzene-d4	6.869

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111424\
Data File : BF140367.D
Acq On : 14 Nov 2024 17:28
Operator : RC/JU
Sample : PB164846BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164846BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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...	2.222	3.6	ng	135219	1	6.869	747257	20.0
Propane, 1,1-di...	2.334	2.9	ng	106619	1	6.869	747257	20.0
2-Pentanone, 4-...	5.116	5.8	ng	215579	1	6.869	747257	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140263.D
Acq On : 07 Nov 2024 09:54
Operator : RC/JU
Sample : PB164702BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:52:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164702BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	189444	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	717811	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	420554	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	766202	20.000	ng	0.00
76) Chrysene-d12	14.063	240	449132	20.000	ng	0.00
86) Perylene-d12	15.563	264	405153	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1426156	124.757	ng	0.02
7) Phenol-d6	6.510	99	1800482	122.451	ng	0.00
23) Nitrobenzene-d5	7.440	82	1248338	86.465	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	619126	148.937	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2276371	86.432	ng	0.00
79) Terphenyl-d14	12.998	244	2666837	97.268	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.793	88	191062	36.354	ng	96
3) Pyridine	3.534	79	507430	39.569	ng	97
4) n-Nitrosodimethylamine	3.499	42	315837	42.659	ng	94
6) Aniline	6.540	93	549976	41.400	ng	92
8) 2-Chlorophenol	6.663	128	579870	48.480	ng	96
9) Benzaldehyde	6.428	77	90855	10.031	ng	98
10) Phenol	6.522	94	720155	46.116	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	560314	47.232	ng	98
12) 1,3-Dichlorobenzene	6.822	146	614397	43.834	ng	99
13) 1,4-Dichlorobenzene	6.898	146	622631	44.044	ng	99
14) 1,2-Dichlorobenzene	7.045	146	601259	45.539	ng	98
15) Benzyl Alcohol	7.022	79	543802	47.976	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.151	45	887765	46.232	ng	98
17) 2-Methylphenol	7.128	107	480306	48.138	ng	99
18) Hexachloroethane	7.387	117	236125	44.841	ng	97
19) n-Nitroso-di-n-propyla...	7.293	70	430219	45.864	ng	97
20) 3+4-Methylphenols	7.281	107	572150	45.658	ng	97
22) Acetophenone	7.287	105	795861	44.719	ng	98
24) Nitrobenzene	7.463	77	643626	42.486	ng	96
25) Isophorone	7.698	82	1172258	47.155	ng	99
26) 2-Nitrophenol	7.775	139	299675	49.729	ng	97
27) 2,4-Dimethylphenol	7.810	122	469544	57.274	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	692092	46.522	ng	100
29) 2,4-Dichlorophenol	8.016	162	485573	47.877	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	537498	44.226	ng	99
31) Naphthalene	8.181	128	1666815	44.968	ng	100
32) Benzoic acid	7.934	122	311120	46.242	ng	95
33) 4-Chloroaniline	8.228	127	268542	22.007	ng	97
34) Hexachlorobutadiene	8.298	225	366012	44.493	ng	99
35) Caprolactam	8.610	113	132812m	43.047	ng	
36) 4-Chloro-3-methylphenol	8.710	107	543474	48.128	ng	98
37) 2-Methylnaphthalene	8.869	142	1128015	46.629	ng	99
38) 1-Methylnaphthalene	8.969	142	1036798	43.726	ng	98
40) 1,2,4,5-Tetrachloroben...	9.039	216	563138	45.740	ng	99
41) Hexachlorocyclopentadiene	9.022	237	678408	196.644	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	384966	50.458	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140263.D
Acq On : 07 Nov 2024 09:54
Operator : RC/JU
Sample : PB164702BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:52:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164702BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	370500	46.186	ng	98
46) 1,1'-Biphenyl	9.339	154	1389319	45.704	ng	99
47) 2-Chloronaphthalene	9.363	162	1025026	44.802	ng	100
48) 2-Nitroaniline	9.457	65	358420	46.843	ng	98
49) Acenaphthylene	9.781	152	1595286	49.250	ng	99
50) Dimethylphthalate	9.645	163	1253758	48.407	ng	99
51) 2,6-Dinitrotoluene	9.704	165	284382	46.711	ng	98
52) Acenaphthene	9.951	154	1192905	51.921	ng	98
53) 3-Nitroaniline	9.875	138	165199	28.817	ng	96
54) 2,4-Dinitrophenol	9.981	184	279366	92.468	ng	91
55) Dibenzofuran	10.128	168	1496819	46.590	ng	100
56) 4-Nitrophenol	10.039	139	424764	105.381	ng	97
57) 2,4-Dinitrotoluene	10.110	165	385755	48.828	ng	98
58) Fluorene	10.469	166	1163758	45.506	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	339556	51.670	ng	97
60) Diethylphthalate	10.345	149	1235348	47.997	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	589156	45.711	ng	97
62) 4-Nitroaniline	10.498	138	266296	46.745	ng	95
63) Azobenzene	10.622	77	1218001	45.651	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	204242	50.754	ng	95
66) n-Nitrosodiphenylamine	10.581	169	1037989	47.101	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	389977	47.266	ng	98
68) Hexachlorobenzene	11.022	284	438918	46.670	ng	95
69) Atrazine	11.110	200	381716	63.311	ng	98
70) Pentachlorophenol	11.216	266	503578	99.717	ng	99
71) Phenanthrene	11.433	178	1726671	47.221	ng	100
72) Anthracene	11.486	178	1737994	48.472	ng	100
73) Carbazole	11.639	167	1521462	46.440	ng	100
74) Di-n-butylphthalate	11.969	149	1867096	48.145	ng	99
75) Fluoranthene	12.622	202	1788878	46.787	ng	99
77) Benzidine	12.745	184	403658	45.968	ng	99
78) Pyrene	12.857	202	1800007	48.539	ng	100
80) Butylbenzylphthalate	13.469	149	711541	53.286	ng	99
81) Benzo(a)anthracene	14.051	228	1419222	49.239	ng	100
82) 3,3'-Dichlorobenzidine	14.010	252	329931	36.451	ng	98
83) Chrysene	14.086	228	1292706	47.893	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	955248	51.041	ng	99
85) Di-n-octyl phthalate	14.669	149	1485254	52.726	ng	97
87) Indeno(1,2,3-cd)pyrene	17.074	276	1200098	50.462	ng	99
88) Benzo(b)fluoranthene	15.121	252	1231890	50.267	ng	100
89) Benzo(k)fluoranthene	15.157	252	1064300	47.328	ng	99
90) Benzo(a)pyrene	15.498	252	1057870	52.355	ng	100
91) Dibenzo(a,h)anthracene	17.092	278	967859	49.465	ng	100
92) Benzo(g,h,i)perylene	17.533	276	899180	45.049	ng	99

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

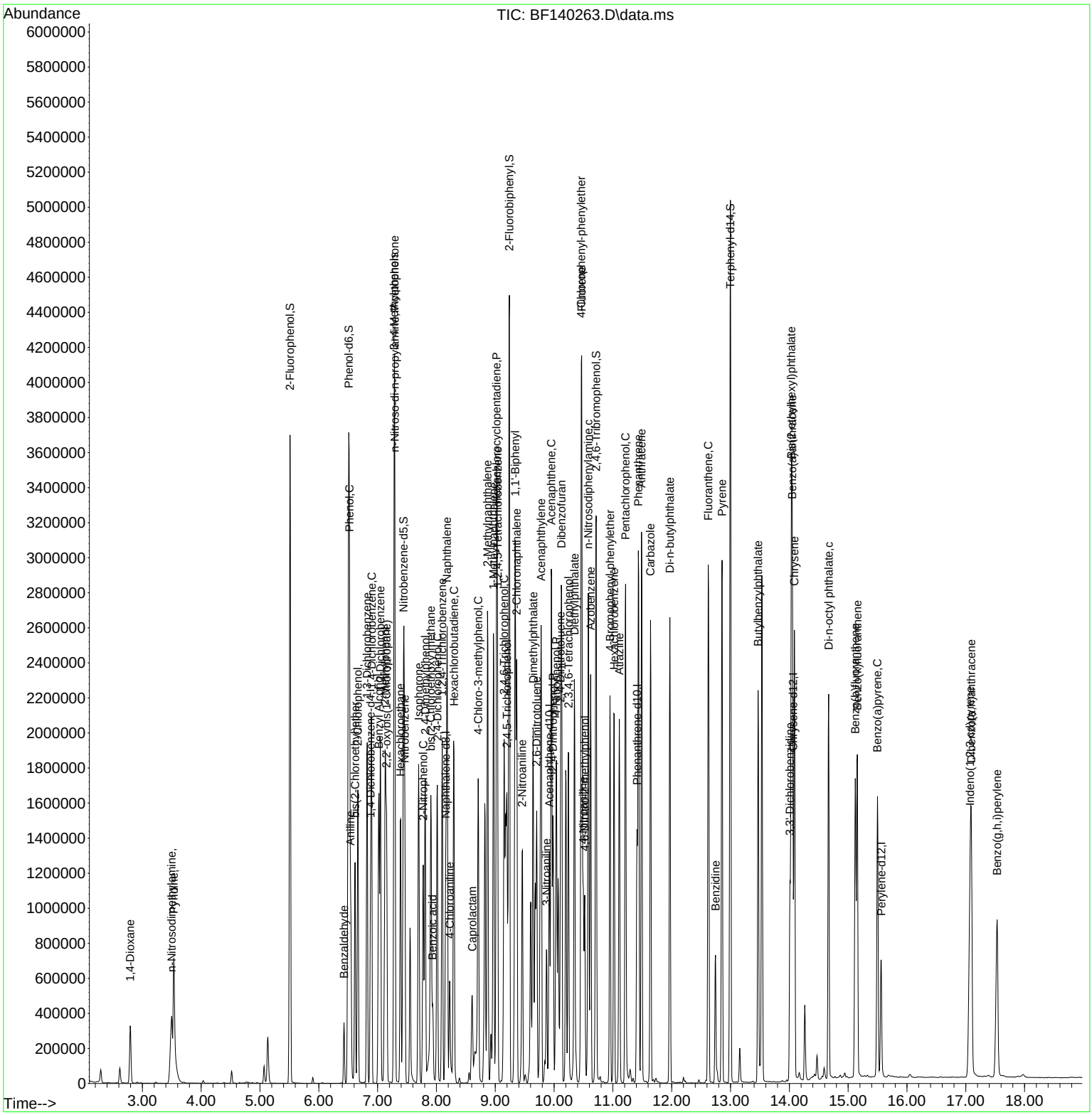
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140263.D
Acq On : 07 Nov 2024 09:54
Operator : RC/JU
Sample : PB164702BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 07 10:52:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164702BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140446.D
Acq On : 18 Nov 2024 11:32
Operator : RC/JU
Sample : PB164846BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 18 12:03:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164846BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	165160	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	638782	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	347317	20.000	ng		0.00
64) Phenanthrene-d10	11.404	188	636734	20.000	ng		0.00
76) Chrysene-d12	14.057	240	331814	20.000	ng		0.00
86) Perylene-d12	15.557	264	309689	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	1149536	118.836	ng		0.02
7) Phenol-d6	6.522	99	1515382	115.627	ng		0.02
23) Nitrobenzene-d5	7.439	82	1002890	81.801	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	445703	129.047	ng		0.00
45) 2-Fluorobiphenyl	9.233	172	1797907	83.216	ng		0.00
79) Terphenyl-d14	12.986	244	1951122	102.067	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.728	88	148406	34.422	ng		99
3) Pyridine	3.487	79	373471	35.236	ng		100
4) n-Nitrosodimethylamine	3.446	42	216844	40.480	ng		100
6) Aniline	6.540	93	449644	39.440	ng	#	40
8) 2-Chlorophenol	6.663	128	450805	43.385	ng		98
9) Benzaldehyde	6.428	77	18407	2.343	ng		99
10) Phenol	6.534	94	552204	39.954	ng	#	72
11) bis(2-Chloroethyl)ether	6.610	93	445879	42.577	ng		99
12) 1,3-Dichlorobenzene	6.816	146	463969	40.469	ng		99
13) 1,4-Dichlorobenzene	6.892	146	472286	40.627	ng		99
14) 1,2-Dichlorobenzene	7.045	146	448434	41.552	ng		99
15) Benzyl Alcohol	7.022	79	416244	44.083	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	593039	40.998	ng		62
17) 2-Methylphenol	7.134	107	357192	41.787	ng		93
18) Hexachloroethane	7.387	117	180191	41.928	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	319847	40.408	ng		99
20) 3+4-Methylphenols	7.287	107	430999	40.318	ng		92
22) Acetophenone	7.281	105	598383	40.277	ng	#	99
24) Nitrobenzene	7.457	77	502108	39.335	ng		99
25) Isophorone	7.692	82	892542	41.077	ng		100
26) 2-Nitrophenol	7.775	139	242821	42.867	ng		99
27) 2,4-Dimethylphenol	7.810	122	364964	50.326	ng		98
28) bis(2-Chloroethoxy)met...	7.904	93	546901	41.048	ng		100
29) 2,4-Dichlorophenol	8.022	162	377878	42.162	ng		97
30) 1,2,4-Trichlorobenzene	8.098	180	395907	39.677	ng		99
31) Naphthalene	8.181	128	1311141	40.462	ng		100
32) Benzoic acid	7.945	122	259311	40.636	ng		95
33) 4-Chloroaniline	8.228	127	365387	32.423	ng		99
34) Hexachlorobutadiene	8.292	225	256885	40.406	ng		99
35) Caprolactam	8.598	113	124006m	41.629	ng		
36) 4-Chloro-3-methylphenol	8.716	107	415262	41.810	ng		100
37) 2-Methylnaphthalene	8.869	142	853575	41.080	ng		100
38) 1-Methylnaphthalene	8.969	142	788895	38.772	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	403173	41.978	ng		99
41) Hexachlorocyclopentadiene	9.022	237	411455	166.853	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	265884	42.183	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140446.D
Acq On : 18 Nov 2024 11:32
Operator : RC/JU
Sample : PB164846BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 18 12:03:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164846BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	284345	41.262	ng	99
46) 1,1'-Biphenyl	9.333	154	1049756	41.546	ng	99
47) 2-Chloronaphthalene	9.357	162	786072	40.840	ng	99
48) 2-Nitroaniline	9.457	65	272968	42.763	ng	98
49) Acenaphthylene	9.775	152	1293683	44.424	ng	100
50) Dimethylphthalate	9.633	163	976397	43.130	ng	100
51) 2,6-Dinitrotoluene	9.698	165	214166	41.497	ng	99
52) Acenaphthene	9.951	154	928998m	47.231	ng	
53) 3-Nitroaniline	9.869	138	180285	33.263	ng	99
54) 2,4-Dinitrophenol	9.980	184	241543	90.757	ng	100
55) Dibenzofuran	10.122	168	1170858	42.050	ng	100
56) 4-Nitrophenol	10.045	139	326519	82.591	ng	99
57) 2,4-Dinitrotoluene	10.110	165	286393	42.164	ng	95
58) Fluorene	10.463	166	915188	41.606	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	247144	45.420	ng	97
60) Diethylphthalate	10.333	149	978499	42.270	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	450935	41.524	ng	99
62) 4-Nitroaniline	10.492	138	224994	40.599	ng	98
63) Azobenzene	10.616	77	965118	42.196	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	165087	48.190	ng	99
66) n-Nitrosodiphenylamine	10.575	169	806124	43.817	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	276151	43.387	ng	99
68) Hexachlorobenzene	11.016	284	312673	43.661	ng	96
69) Atrazine	11.098	200	204988	36.828	ng	99
70) Pentachlorophenol	11.210	266	327103	84.794	ng	99
71) Phenanthrene	11.427	178	1293808	43.255	ng	100
72) Anthracene	11.480	178	1327808	45.295	ng	99
73) Carbazole	11.633	167	1219658	42.137	ng	100
74) Di-n-butylphthalate	11.957	149	1526840	43.950	ng	100
75) Fluoranthene	12.616	202	1387211	41.338	ng	99
77) Benzidine	12.739	184	270508	21.241	ng	99
78) Pyrene	12.851	202	1393611	49.101	ng	100
80) Butylbenzylphthalate	13.463	149	546873	50.157	ng	97
81) Benzo(a)anthracene	14.045	228	985370	45.185	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	265978	38.372	ng	99
83) Chrysene	14.080	228	886826	44.569	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	707203	48.594	ng	100
85) Di-n-octyl phthalate	14.657	149	925048	45.132	ng	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	955785	49.962	ng	100
88) Benzo(b)fluoranthene	15.115	252	824611	40.705	ng	100
89) Benzo(k)fluoranthene	15.145	252	683584	41.305	ng	99
90) Benzo(a)pyrene	15.492	252	739316	46.995	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	783426	49.543	ng	100
92) Benzo(g,h,i)perylene	17.521	276	724191	44.797	ng	99

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

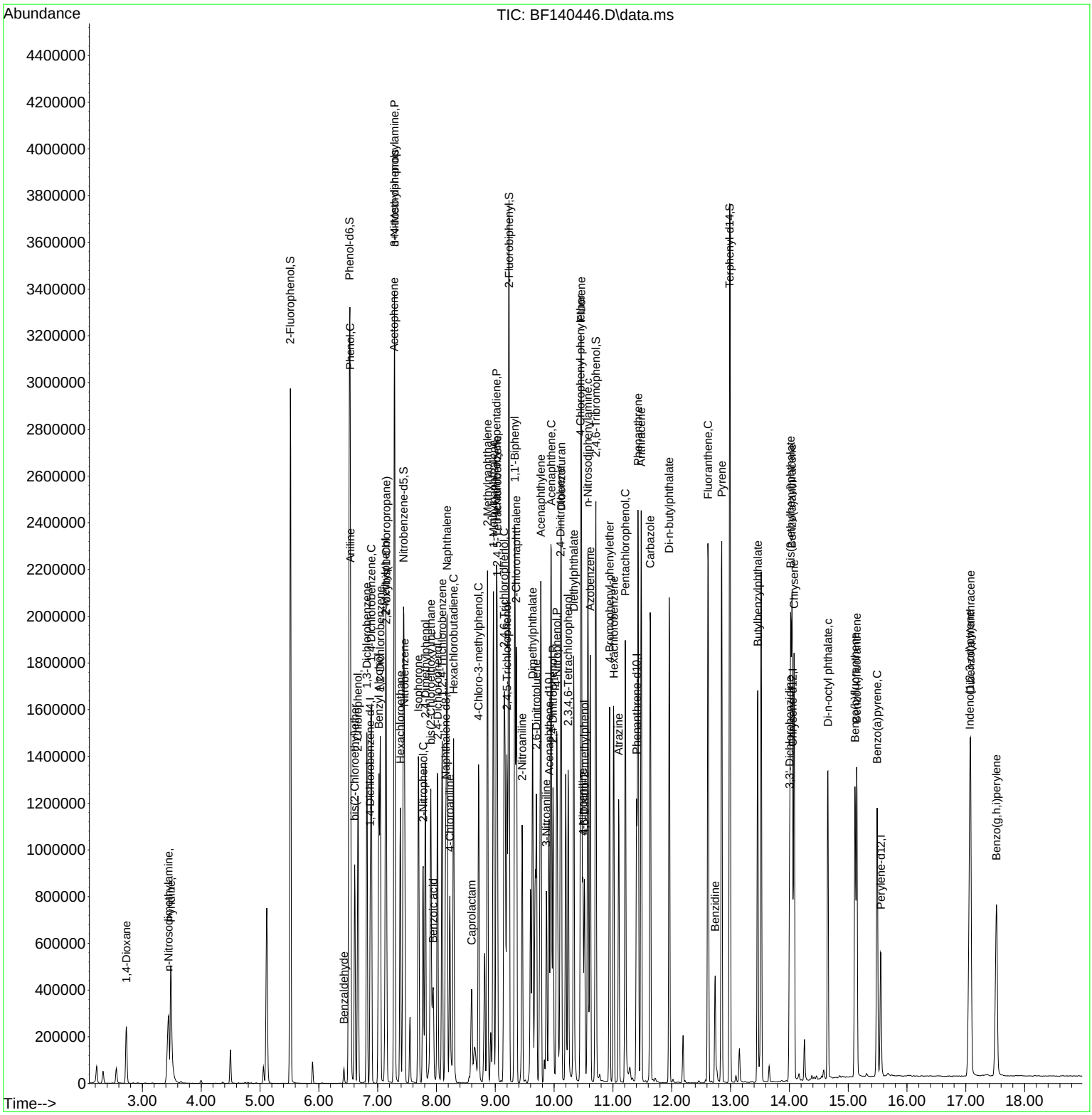
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140446.D
Acq On : 18 Nov 2024 11:32
Operator : RC/JU
Sample : PB164846BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 18 12:03:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164846BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140447.D
Acq On : 18 Nov 2024 11:58
Operator : RC/JU
Sample : PB164846BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 18 12:34:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164846BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	145420	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	559684	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	308958	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	581243	20.000	ng	0.00
76) Chrysene-d12	14.051	240	325114	20.000	ng	0.00
86) Perylene-d12	15.545	264	284093	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1076180	126.355	ng	0.02
7) Phenol-d6	6.516	99	1400041	121.328	ng	0.01
23) Nitrobenzene-d5	7.439	82	923338	85.956	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	404298	131.593	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1682238	87.529	ng	0.00
79) Terphenyl-d14	12.986	244	1867800	99.722	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.734	88	145798	38.408	ng	99
3) Pyridine	3.493	79	385293	41.286	ng	99
4) n-Nitrosodimethylamine	3.446	42	205712	43.614	ng	100
6) Aniline	6.540	93	391801	39.031	ng	# 45
8) 2-Chlorophenol	6.663	128	429419	46.936	ng	98
9) Benzaldehyde	6.428	77	49583	7.169	ng	97
10) Phenol	6.534	94	526833	43.293	ng	# 75
11) bis(2-Chloroethyl)ether	6.610	93	421887	45.755	ng	99
12) 1,3-Dichlorobenzene	6.816	146	444156	44.000	ng	99
13) 1,4-Dichlorobenzene	6.892	146	447701	43.740	ng	99
14) 1,2-Dichlorobenzene	7.045	146	429290	45.178	ng	99
15) Benzyl Alcohol	7.022	79	390233	46.938	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	565533	44.404	ng	68
17) 2-Methylphenol	7.134	107	342267	45.476	ng	93
18) Hexachloroethane	7.387	117	169487	44.791	ng	99
19) n-Nitroso-di-n-propyla...	7.287	70	309024	44.341	ng	100
20) 3+4-Methylphenols	7.287	107	423581	45.003	ng	94
22) Acetophenone	7.281	105	571412	43.897	ng	99
24) Nitrobenzene	7.457	77	480035	42.921	ng	99
25) Isophorone	7.692	82	853441	44.828	ng	100
26) 2-Nitrophenol	7.775	139	232910	46.929	ng	98
27) 2,4-Dimethylphenol	7.810	122	348177	54.796	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	525211	44.991	ng	100
29) 2,4-Dichlorophenol	8.016	162	357639	45.543	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	379026	43.353	ng	99
31) Naphthalene	8.175	128	1246423	43.901	ng	100
32) Benzoic acid	7.939	122	244574	43.744	ng	97
33) 4-Chloroaniline	8.228	127	219835	22.264	ng	99
34) Hexachlorobutadiene	8.292	225	243160	43.652	ng	99
35) Caprolactam	8.598	113	114202m	43.756	ng	
36) 4-Chloro-3-methylphenol	8.716	107	389864	44.800	ng	98
37) 2-Methylnaphthalene	8.869	142	816319	44.840	ng	99
38) 1-Methylnaphthalene	8.969	142	761299	42.704	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	387962	45.409	ng	99
41) Hexachlorocyclopentadiene	9.022	237	398486	181.657	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	257007	45.838	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140447.D
Acq On : 18 Nov 2024 11:58
Operator : RC/JU
Sample : PB164846BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 18 12:34:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164846BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	271362	44.267	ng	98
46) 1,1'-Biphenyl	9.333	154	1010408	44.954	ng	99
47) 2-Chloronaphthalene	9.357	162	754929	44.092	ng	99
48) 2-Nitroaniline	9.457	65	256925	45.247	ng	99
49) Acenaphthylene	9.775	152	1249493	48.233	ng	100
50) Dimethylphthalate	9.633	163	927208	46.042	ng	99
51) 2,6-Dinitrotoluene	9.698	165	198478	43.232	ng	100
52) Acenaphthene	9.945	154	891897m	50.975	ng	
53) 3-Nitroaniline	9.869	138	137100	28.436	ng	99
54) 2,4-Dinitrophenol	9.980	184	229743	97.040	ng	99
55) Dibenzofuran	10.122	168	1124399	45.395	ng	100
56) 4-Nitrophenol	10.045	139	308272	87.657	ng	98
57) 2,4-Dinitrotoluene	10.104	165	275544	45.603	ng	98
58) Fluorene	10.463	166	868200	44.370	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	230652	47.652	ng	99
60) Diethylphthalate	10.333	149	933678	45.341	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	431231	44.640	ng	100
62) 4-Nitroaniline	10.486	138	215906	43.796	ng	98
63) Azobenzene	10.616	77	914747	44.959	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	157620	50.403	ng	98
66) n-Nitrosodiphenylamine	10.575	169	771009	45.910	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	261987	45.091	ng	99
68) Hexachlorobenzene	11.010	284	296988	45.430	ng	100
69) Atrazine	11.104	200	261734	51.512	ng	100
70) Pentachlorophenol	11.210	266	308690	87.661	ng	99
71) Phenanthrene	11.427	178	1253307	45.902	ng	100
72) Anthracene	11.480	178	1280432	47.849	ng	100
73) Carbazole	11.633	167	1181642	44.721	ng	100
74) Di-n-butylphthalate	11.957	149	1462532	46.118	ng	100
75) Fluoranthene	12.621	202	1360302	44.406	ng	100
77) Benzidine	12.739	184	344154	27.581	ng	99
78) Pyrene	12.851	202	1371060	49.302	ng	100
80) Butylbenzylphthalate	13.463	149	551247	51.601	ng	96
81) Benzo(a)anthracene	14.039	228	995805	46.604	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	209137	30.794	ng	99
83) Chrysene	14.080	228	923689	47.379	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	715477	50.176	ng	99
85) Di-n-octyl phthalate	14.645	149	962272	47.915	ng	99
87) Indeno(1,2,3-cd)pyrene	17.057	276	911905	51.963	ng	99
88) Benzo(b)fluoranthene	15.110	252	747769	40.237	ng	99
89) Benzo(k)fluoranthene	15.139	252	746427	49.166	ng	100
90) Benzo(a)pyrene	15.480	252	719976	49.889	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	743925	51.284	ng	99
92) Benzo(g,h,i)perylene	17.509	276	693632	46.772	ng	98

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

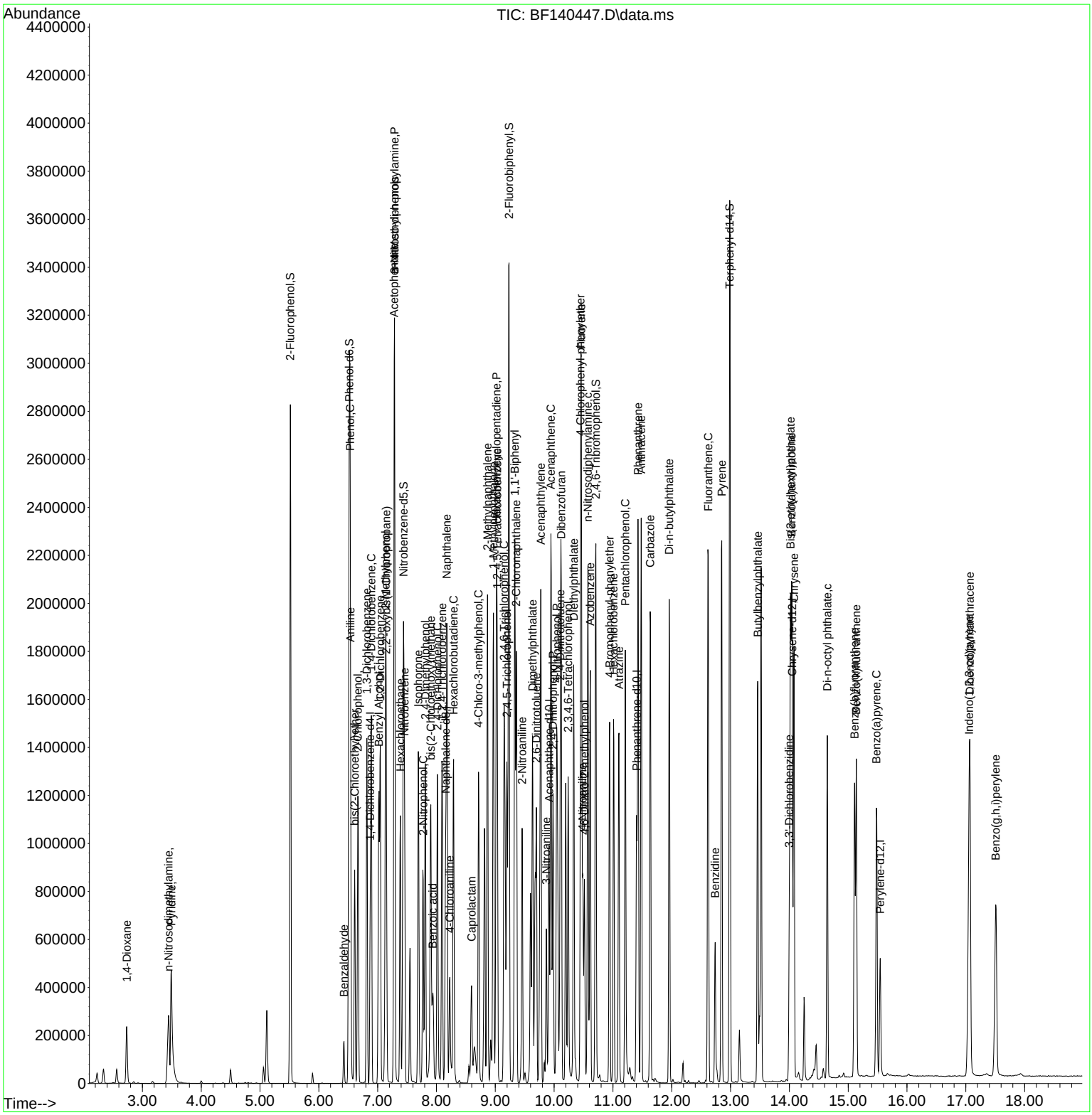
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140447.D
Acq On : 18 Nov 2024 11:58
Operator : RC/JU
Sample : PB164846BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 18 12:34:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164846BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140272.D
Acq On : 07 Nov 2024 14:00
Operator : RC/JU
Sample : P4718-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 07 14:42:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	123564	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	474391	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	274410	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	511867	20.000	ng	0.00
76) Chrysene-d12	14.063	240	275517	20.000	ng	0.00
86) Perylene-d12	15.580	264	287359	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	805163	107.986	ng	0.00
7) Phenol-d6	6.504	99	1046033	109.070	ng	0.00
23) Nitrobenzene-d5	7.439	82	683568	71.641	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	329281	121.398	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1235148	71.874	ng	0.00
79) Terphenyl-d14	12.992	244	1350611	80.303	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	159894	46.644	ng	94
3) Pyridine	3.463	79	401853	48.044	ng	96
4) n-Nitrosodimethylamine	3.422	42	229762	47.579	ng	92
6) Aniline	6.540	93	447659	51.665	ng	99
8) 2-Chlorophenol	6.657	128	423877	54.333	ng	96
9) Benzaldehyde	6.428	77	60676	10.271	ng	93
10) Phenol	6.516	94	539287	52.946	ng	94
11) bis(2-Chloroethyl)ether	6.610	93	402349	51.999	ng	97
12) 1,3-Dichlorobenzene	6.816	146	454992	49.769	ng	99
13) 1,4-Dichlorobenzene	6.892	146	464526	50.380	ng	98
14) 1,2-Dichlorobenzene	7.045	146	443352	51.482	ng	98
15) Benzyl Alcohol	7.016	79	390494	52.818	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.145	45	631690	50.436	ng	98
17) 2-Methylphenol	7.122	107	343978	52.855	ng	99
18) Hexachloroethane	7.387	117	171286	49.871	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	307934	50.330	ng	95
20) 3+4-Methylphenols	7.275	107	425056	52.004	ng	95
22) Acetophenone	7.281	105	577350	49.087	ng	98
24) Nitrobenzene	7.457	77	475696	47.513	ng	97
25) Isophorone	7.692	82	832705	50.684	ng	100
26) 2-Nitrophenol	7.775	139	218788	54.936	ng	95
27) 2,4-Dimethylphenol	7.804	122	337920	62.369	ng	96
28) bis(2-Chloroethoxy)met...	7.904	93	486262	49.458	ng	99
29) 2,4-Dichlorophenol	8.010	162	349832	52.192	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	384857	47.916	ng	99
31) Naphthalene	8.181	128	1207757	49.303	ng	100
32) Benzoic acid	7.922	122	248410	55.867	ng	97
33) 4-Chloroaniline	8.228	127	281553	34.912	ng	96
34) Hexachlorobutadiene	8.292	225	259986	47.822	ng	99
35) Caprolactam	8.592	113	114665m	56.235	ng	
36) 4-Chloro-3-methylphenol	8.704	107	387719	51.953	ng	97
37) 2-Methylnaphthalene	8.869	142	813182	50.863	ng	99
38) 1-Methylnaphthalene	8.969	142	759242	48.450	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	409102	50.925	ng	99
41) Hexachlorocyclopentadiene	9.022	237	444962	197.667	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	267747	53.784	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140272.D
Acq On : 07 Nov 2024 14:00
Operator : RC/JU
Sample : P4718-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 07 14:42:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	275023	52.543	ng	98
46) 1,1'-Biphenyl	9.339	154	993478	50.087	ng	100
47) 2-Chloronaphthalene	9.363	162	738129	49.444	ng	99
48) 2-Nitroaniline	9.457	65	262434	52.565	ng	95
49) Acenaphthylene	9.781	152	1169473	55.332	ng	99
50) Dimethylphthalate	9.639	163	897596	53.113	ng	99
51) 2,6-Dinitrotoluene	9.698	165	205237	51.665	ng	98
52) Acenaphthene	9.951	154	886215	59.116	ng	99
53) 3-Nitroaniline	9.869	138	152512	40.773	ng	97
54) 2,4-Dinitrophenol	9.980	184	227925	114.085	ng	88
55) Dibenzofuran	10.128	168	1102187	52.578	ng	99
56) 4-Nitrophenol	10.033	139	323914	123.159	ng	95
57) 2,4-Dinitrotoluene	10.104	165	285151	55.316	ng	95
58) Fluorene	10.469	166	861124	51.605	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	250027	58.310	ng	97
60) Diethylphthalate	10.339	149	886313	52.776	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	435218	51.750	ng	98
62) 4-Nitroaniline	10.486	138	205277	55.224	ng	96
63) Azobenzene	10.622	77	991091	56.929	ng	94
65) 4,6-Dinitro-2-methylph...	10.516	198	161606	60.114	ng	94
66) n-Nitrosodiphenylamine	10.580	169	764584	51.934	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	282599	51.270	ng	98
68) Hexachlorobenzene	11.016	284	316279	50.340	ng	96
69) Atrazine	11.104	200	279153	69.306	ng	99
70) Pentachlorophenol	11.210	266	375354	111.257	ng	98
71) Phenanthrene	11.433	178	1278587	52.341	ng	99
72) Anthracene	11.486	178	1310930	54.728	ng	100
73) Carbazole	11.639	167	1140760	52.121	ng	100
74) Di-n-butylphthalate	11.969	149	1387600	53.560	ng	100
75) Fluoranthene	12.621	202	1259503	49.309	ng	99
77) Benzidine	12.745	184	489668	90.901	ng	99
78) Pyrene	12.851	202	1252636	55.064	ng	99
80) Butylbenzylphthalate	13.469	149	483213	58.990	ng	97
81) Benzo(a)anthracene	14.057	228	963003	54.464	ng	99
82) 3,3'-Dichlorobenzidine	14.016	252	252806	45.530	ng	99
83) Chrysene	14.092	228	880430	53.173	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	613533	53.440	ng	100
85) Di-n-octyl phthalate	14.692	149	927048	53.648	ng	97
87) Indeno(1,2,3-cd)pyrene	17.098	276	834095	49.449	ng	100
88) Benzo(b)fluoranthene	15.145	252	970890	55.857	ng	99
89) Benzo(k)fluoranthene	15.174	252	781160	48.977	ng	99
90) Benzo(a)pyrene	15.521	252	821561	57.328	ng	100
91) Dibenzo(a,h)anthracene	17.115	278	688310	49.598	ng	100
92) Benzo(g,h,i)perylene	17.551	276	598771	42.296	ng	99

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

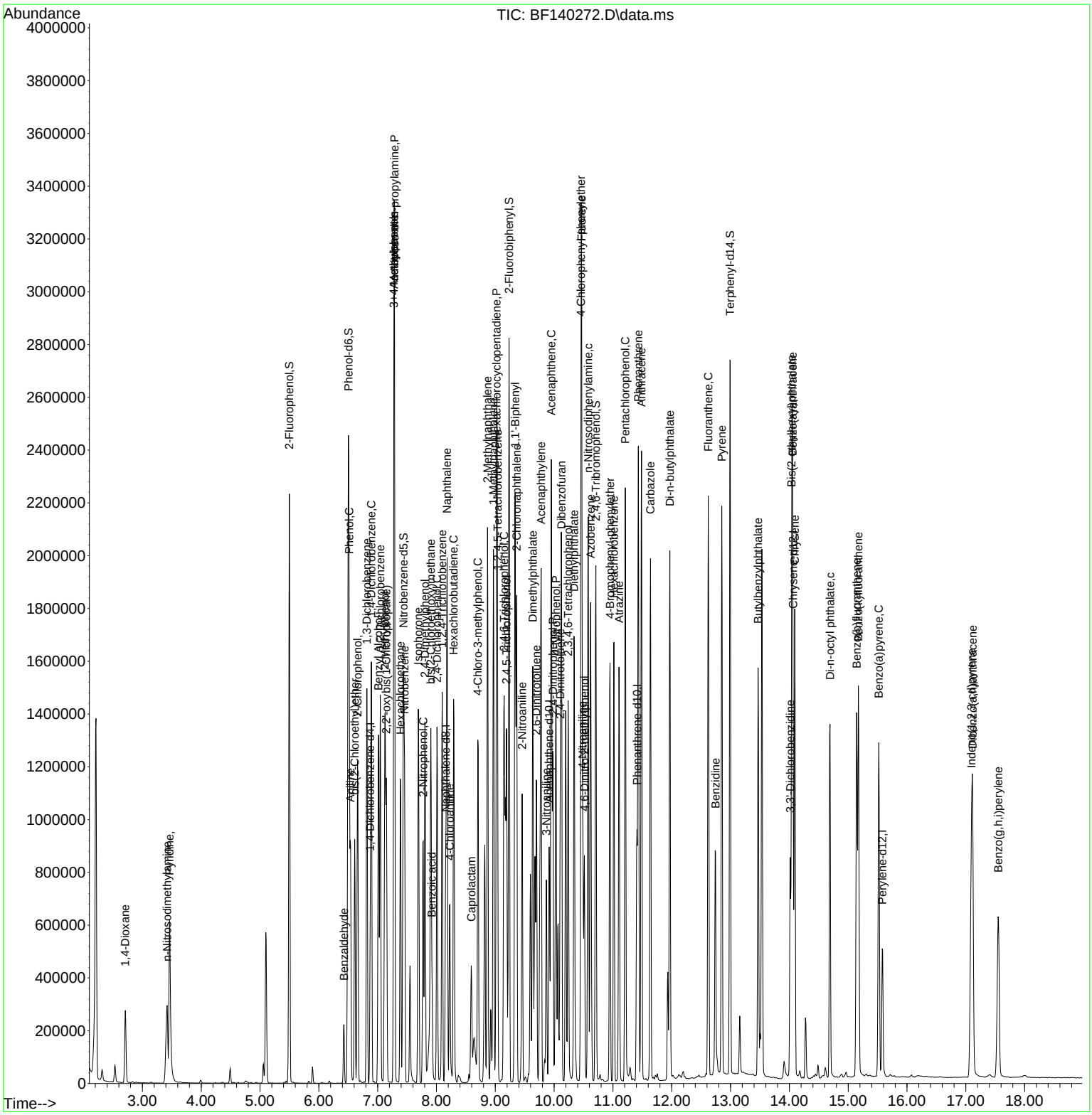
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140272.D
Acq On : 07 Nov 2024 14:00
Operator : RC/JU
Sample : P4718-02MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 07 14:42:17 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140273.D
Acq On : 07 Nov 2024 14:27
Operator : RC/JU
Sample : P4718-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 07 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	124801	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	475239	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	277394	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	516198	20.000	ng	0.00
76) Chrysene-d12	14.068	240	284018	20.000	ng	0.00
86) Perylene-d12	15.586	264	293574	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	795579	105.643	ng	0.00
7) Phenol-d6	6.504	99	1029384	106.271	ng	0.00
23) Nitrobenzene-d5	7.439	82	666023	69.678	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	331362	120.851	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1238982	71.321	ng	0.00
79) Terphenyl-d14	12.992	244	1330763	76.754	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	158831	45.875	ng	95
3) Pyridine	3.463	79	403726	47.789	ng	96
4) n-Nitrosodimethylamine	3.416	42	229741	47.103	ng	92
6) Aniline	6.539	93	451956	51.644	ng	98
8) 2-Chlorophenol	6.657	128	416682	52.881	ng	96
9) Benzaldehyde	6.428	77	61562	10.318	ng	97
10) Phenol	6.516	94	534935	51.999	ng	94
11) bis(2-Chloroethyl)ether	6.610	93	396206	50.698	ng	97
12) 1,3-Dichlorobenzene	6.816	146	446908	48.400	ng	99
13) 1,4-Dichlorobenzene	6.892	146	458634	49.248	ng	99
14) 1,2-Dichlorobenzene	7.045	146	434447	49.948	ng	98
15) Benzyl Alcohol	7.016	79	386606	51.774	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.145	45	622917	49.242	ng	98
17) 2-Methylphenol	7.122	107	338402	51.483	ng	99
18) Hexachloroethane	7.386	117	167570	48.306	ng	98
19) n-Nitroso-di-n-propyla...	7.286	70	305751	49.478	ng	96
20) 3+4-Methylphenols	7.275	107	425814	51.581	ng	95
22) Acetophenone	7.281	105	571898	48.537	ng	98
24) Nitrobenzene	7.457	77	467178	46.579	ng	97
25) Isophorone	7.692	82	824046	50.067	ng	99
26) 2-Nitrophenol	7.775	139	215334	53.972	ng	95
27) 2,4-Dimethylphenol	7.804	122	333993	61.534	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	480578	48.793	ng	99
29) 2,4-Dichlorophenol	8.010	162	350214	52.156	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	380621	47.304	ng	99
31) Naphthalene	8.180	128	1200857	48.933	ng	100
32) Benzoic acid	7.922	122	241676	54.255	ng	94
33) 4-Chloroaniline	8.228	127	279115	34.548	ng	97
34) Hexachlorobutadiene	8.292	225	257654	47.308	ng	99
35) Caprolactam	8.592	113	115758m	56.670	ng	
36) 4-Chloro-3-methylphenol	8.704	107	388888	52.017	ng	98
37) 2-Methylnaphthalene	8.869	142	810384	50.598	ng	99
38) 1-Methylnaphthalene	8.969	142	756765	48.206	ng	100
40) 1,2,4,5-Tetrachloroben...	9.033	216	400992	49.379	ng	99
41) Hexachlorocyclopentadiene	9.022	237	427822	188.008	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	263899	52.441	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140273.D
Acq On : 07 Nov 2024 14:27
Operator : RC/JU
Sample : P4718-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 07 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	275539	52.075	ng	98
46) 1,1'-Biphenyl	9.333	154	984333	49.093	ng	100
47) 2-Chloronaphthalene	9.363	162	740269	49.054	ng	99
48) 2-Nitroaniline	9.457	65	262416	51.996	ng	93
49) Acenaphthylene	9.780	152	1154339	54.028	ng	99
50) Dimethylphthalate	9.639	163	889136	52.046	ng	100
51) 2,6-Dinitrotoluene	9.698	165	206672	51.466	ng	98
52) Acenaphthene	9.951	154	886942	58.528	ng	99
53) 3-Nitroaniline	9.869	138	151809	40.148	ng	99
54) 2,4-Dinitrophenol	9.980	184	233982	115.761	ng	86
55) Dibenzofuran	10.127	168	1096117	51.726	ng	97
56) 4-Nitrophenol	10.033	139	325881	122.574	ng	95
57) 2,4-Dinitrotoluene	10.104	165	281533	54.027	ng	96
58) Fluorene	10.469	166	866197	51.351	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	247483	57.095	ng	96
60) Diethylphthalate	10.339	149	885754	52.175	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	425647	50.068	ng	98
62) 4-Nitroaniline	10.486	138	203943	54.275	ng	95
63) Azobenzene	10.621	77	980191	55.697	ng	95
65) 4,6-Dinitro-2-methylph...	10.516	198	161015	59.391	ng	95
66) n-Nitrosodiphenylamine	10.580	169	756153	50.930	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	281694	50.677	ng	97
68) Hexachlorobenzene	11.016	284	313451	49.471	ng	97
69) Atrazine	11.104	200	276392	68.045	ng	98
70) Pentachlorophenol	11.210	266	369746	108.676	ng	98
71) Phenanthrene	11.433	178	1274979	51.755	ng	100
72) Anthracene	11.486	178	1290287	53.415	ng	100
73) Carbazole	11.639	167	1130349	51.212	ng	99
74) Di-n-butylphthalate	11.968	149	1372401	52.528	ng	99
75) Fluoranthene	12.621	202	1237839	48.055	ng	100
77) Benzidine	12.745	184	491990	88.598	ng	99
78) Pyrene	12.851	202	1234029	52.622	ng	99
80) Butylbenzylphthalate	13.474	149	475307	56.288	ng	95
81) Benzo(a)anthracene	14.057	228	943227	51.749	ng	99
82) 3,3'-Dichlorobenzidine	14.015	252	258341	45.134	ng	100
83) Chrysene	14.098	228	907486	53.167	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	608274	51.396	ng	100
85) Di-n-octyl phthalate	14.698	149	927876	52.089	ng	97
87) Indeno(1,2,3-cd)pyrene	17.103	276	845168	49.045	ng	100
88) Benzo(b)fluoranthene	15.151	252	865806	48.757	ng	99
89) Benzo(k)fluoranthene	15.180	252	892442	54.769	ng	100
90) Benzo(a)pyrene	15.527	252	820678	56.054	ng	99
91) Dibenzo(a,h)anthracene	17.121	278	696388	49.118	ng	99
92) Benzo(g,h,i)perylene	17.556	276	603487	41.726	ng	99

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

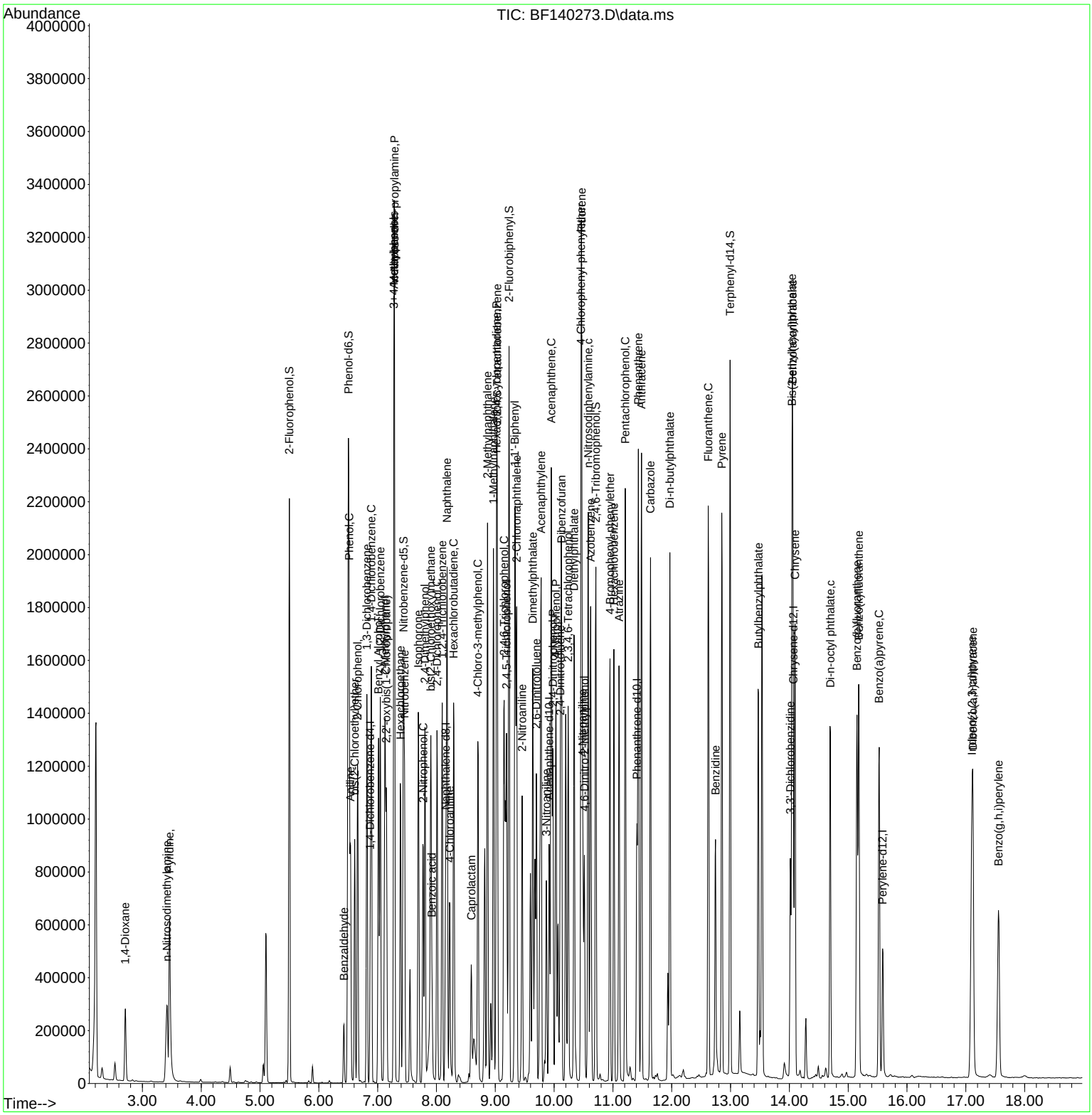
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110724\
Data File : BF140273.D
Acq On : 07 Nov 2024 14:27
Operator : RC/JU
Sample : P4718-02MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 07 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/11/2024



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

Manual Integration Report

Sequence:	bf110524	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BF140236.D	Benzoic acid	yogesh	11/6/2024 3:09:10 AM	mohammad	11/6/2024 3:16:35 AM	Peak Integrated by Software
SSTDICC080	BF140238.D	Aniline	yogesh	11/6/2024 3:09:12 AM	mohammad	11/6/2024 3:16:35 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF110724	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164702BS	BF140263.D	Caprolactam	yogesh	11/8/2024 3:37:25 AM	mohammad	11/11/2024 12:23:52 AM	Peak Integrated by Software
P4718-02MS	BF140272.D	Caprolactam	yogesh	11/8/2024 3:37:30 AM	mohammad	11/11/2024 12:23:52 AM	Peak Integrated by Software
P4718-02MSD	BF140273.D	Caprolactam	yogesh	11/8/2024 3:37:31 AM	mohammad	11/11/2024 12:23:52 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF111324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF140333.D	Benzoic acid	yogesh	11/14/2024 3:08:33 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	2,3,4,6-Tetrachlorophenol	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	Benzoic acid	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC080	BF140339.D	Caprolactam	yogesh	11/14/2024 3:08:41 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf111424	Instrument	BNA_f

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:	bf111824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140443.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:35 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BS	BF140446.D	Acenaphthene	yogesh	11/19/2024 3:20:38 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BS	BF140446.D	Caprolactam	yogesh	11/19/2024 3:20:38 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BSD	BF140447.D	Acenaphthene	yogesh	11/19/2024 3:20:40 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB164846BSD	BF140447.D	Caprolactam	yogesh	11/19/2024 3:20:40 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
SSTDCCC040	BF140456.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:45 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM				
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM				
SubDirectory	BF110524	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140230.D	05 Nov 2024 11:56	RC/JU	Ok
2	SSTDICC2.5	BF140231.D	05 Nov 2024 12:26	RC/JU	Ok
3	SSTDICC005	BF140232.D	05 Nov 2024 12:52	RC/JU	Ok
4	SSTDICC010	BF140233.D	05 Nov 2024 13:18	RC/JU	Ok
5	SSTDICC020	BF140234.D	05 Nov 2024 13:45	RC/JU	Ok
6	SSTDICCC040	BF140235.D	05 Nov 2024 14:11	RC/JU	Ok
7	SSTDICC050	BF140236.D	05 Nov 2024 14:37	RC/JU	Ok,M
8	SSTDICC060	BF140237.D	05 Nov 2024 15:03	RC/JU	Ok
9	SSTDICC080	BF140238.D	05 Nov 2024 15:30	RC/JU	Ok,M
10	SSTDICV040	BF140239.D	05 Nov 2024 16:07	RC/JU	Ok
11	PB164366BL	BF140240.D	05 Nov 2024 16:37	RC/JU	Ok
12	P4368-02	BF140241.D	05 Nov 2024 17:03	RC/JU	Ok
13	P4368-02	BF140242.D	05 Nov 2024 17:30	RC/JU	Ok,M
14	P4368-08	BF140243.D	05 Nov 2024 17:56	RC/JU	Ok,M
15	P4368-02	BF140244.D	05 Nov 2024 18:22	RC/JU	Not Ok
16	P4368-08	BF140245.D	05 Nov 2024 18:49	RC/JU	Not Ok
17	P4368-01	BF140246.D	05 Nov 2024 19:15	RC/JU	Ok
18	P4368-01	BF140247.D	05 Nov 2024 19:41	RC/JU	Ok,M
19	P4368-07	BF140248.D	05 Nov 2024 20:07	RC/JU	Ok,M
20	P4368-07	BF140249.D	05 Nov 2024 20:34	RC/JU	Ok,M
21	PB164369BL	BF140250.D	05 Nov 2024 21:00	RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM				
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM				
SubDirectory	BF110524	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	SSTDCCC040	BF140251.D	05 Nov 2024 21:26	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM				
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM				
SubDirectory	BF110724	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140260.D	07 Nov 2024 08:33	RC/JU	Ok
2	SSTDCCC040	BF140261.D	07 Nov 2024 08:59	RC/JU	Ok
3	PB164702BL	BF140262.D	07 Nov 2024 09:28	RC/JU	Ok
4	PB164702BS	BF140263.D	07 Nov 2024 09:54	RC/JU	Ok,M
5	P4701-01	BF140264.D	07 Nov 2024 10:28	RC/JU	Ok
6	P4693-05	BF140265.D	07 Nov 2024 10:55	RC/JU	Ok
7	P4693-05MS	BF140266.D	07 Nov 2024 11:21	RC/JU	Ok,M
8	P4693-05MSD	BF140267.D	07 Nov 2024 11:48	RC/JU	Ok,M
9	P4701-05	BF140268.D	07 Nov 2024 12:14	RC/JU	Ok
10	P4697-01	BF140269.D	07 Nov 2024 12:40	RC/JU	Ok
11	P4718-01	BF140270.D	07 Nov 2024 13:07	RC/JU	Ok
12	P4718-02	BF140271.D	07 Nov 2024 13:33	RC/JU	Ok
13	P4718-02MS	BF140272.D	07 Nov 2024 14:00	RC/JU	Ok,M
14	P4718-02MSD	BF140273.D	07 Nov 2024 14:27	RC/JU	Ok,M
15	P4693-01	BF140274.D	07 Nov 2024 14:53	RC/JU	Ok,M
16	P4695-01	BF140275.D	07 Nov 2024 15:20	RC/JU	Dilution
17	P4707-01	BF140276.D	07 Nov 2024 15:46	RC/JU	Ok,M
18	P4719-01	BF140277.D	07 Nov 2024 16:13	RC/JU	Ok
19	P4694-05	BF140278.D	07 Nov 2024 16:39	RC/JU	ReRun
20	P4720-01	BF140279.D	07 Nov 2024 17:06	RC/JU	Dilution
21	P4722-13	BF140280.D	07 Nov 2024 17:32	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM				
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM				
SubDirectory	BF110724	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4695-01DL	BF140281.D	07 Nov 2024 17:59	RC/JU	Not Ok
23	P4734-01	BF140282.D	07 Nov 2024 18:25	RC/JU	Ok,M
24	P4694-01	BF140283.D	07 Nov 2024 18:51	RC/JU	Dilution
25	P4700-01	BF140284.D	07 Nov 2024 19:18	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM				
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM				
SubDirectory	BF111324	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140331.D	13 Nov 2024 08:35	RC/JU	Ok
2	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01	RC/JU	Ok
3	SSTDICC005	BF140333.D	13 Nov 2024 09:27	RC/JU	Ok,M
4	SSTDICC010	BF140334.D	13 Nov 2024 09:53	RC/JU	Ok,M
5	SSTDICC020	BF140335.D	13 Nov 2024 10:29	RC/JU	Ok
6	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	RC/JU	Not Ok
7	SSTDICC050	BF140337.D	13 Nov 2024 11:21	RC/JU	Ok
8	SSTDICC060	BF140338.D	13 Nov 2024 11:47	RC/JU	Ok
9	SSTDICC080	BF140339.D	13 Nov 2024 12:13	RC/JU	Ok,M
10	SSTDICCC040	BF140340.D	13 Nov 2024 12:48	RC/JU	Ok
11	SSTDICV040	BF140341.D	13 Nov 2024 13:19	RC/JU	Ok
12	PB164401BL	BF140342.D	13 Nov 2024 13:45	RC/JU	Ok
13	P4495-11	BF140343.D	13 Nov 2024 15:25	RC/JU	Dilution
14	P4495-11DL	BF140344.D	13 Nov 2024 16:02	RC/JU	Ok
15	P3845-03	BF140345.D	13 Nov 2024 16:40	RC/JU	Dilution
16	P3845-03DL	BF140346.D	13 Nov 2024 17:06	RC/JU	Ok
17	P3845-06	BF140347.D	13 Nov 2024 17:32	RC/JU	Dilution
18	P3845-06DL	BF140348.D	13 Nov 2024 17:58	RC/JU	Not Ok
19	SP6681	BF140349.D	13 Nov 2024 18:39	RC/JU	Ok,NR

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM				
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM				
SubDirectory	BF111424	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140350.D	14 Nov 2024 08:47	RC/JU	Ok
2	SSTDCCC040	BF140351.D	14 Nov 2024 09:42	RC/JU	Ok
3	PB164908BL	BF140352.D	14 Nov 2024 10:08	RC/JU	Ok
4	PB164911BS	BF140353.D	14 Nov 2024 10:34	RC/JU	Ok,M
5	PB164911BSD	BF140354.D	14 Nov 2024 11:01	RC/JU	Ok,M
6	PB164911BL	BF140355.D	14 Nov 2024 11:27	RC/JU	Ok
7	P3845-06DL	BF140356.D	14 Nov 2024 11:54	RC/JU	Ok
8	P4762-02	BF140357.D	14 Nov 2024 13:03	RC/JU	Ok
9	P4792-03	BF140358.D	14 Nov 2024 13:29	RC/JU	Ok
10	P4837-03	BF140359.D	14 Nov 2024 13:55	RC/JU	Ok
11	P4834-03	BF140360.D	14 Nov 2024 14:21	RC/JU	Ok
12	P4779-01	BF140361.D	14 Nov 2024 14:47	RC/JU	Ok
13	P4838-03	BF140362.D	14 Nov 2024 15:13	RC/JU	Ok
14	P4718-04	BF140363.D	14 Nov 2024 15:39	RC/JU	Ok
15	P4812-01	BF140364.D	14 Nov 2024 16:04	RC/JU	Ok
16	DFTPP	BF140365.D	14 Nov 2024 16:35	RC/JU	Ok
17	SSTDCCC040	BF140366.D	14 Nov 2024 17:02	RC/JU	Ok
18	PB164846BL	BF140367.D	14 Nov 2024 17:28	RC/JU	Ok
19	P4722-10	BF140368.D	14 Nov 2024 17:59	RC/JU	Ok
20	P4722-15	BF140369.D	14 Nov 2024 18:25	RC/JU	Ok
21	P4791-02	BF140370.D	14 Nov 2024 18:51	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM		
SubDirectory	BF111424	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4792-04	BF140371.D	14 Nov 2024 19:17	RC/JU	Ok
23	P4788-01	BF140372.D	14 Nov 2024 19:43	RC/JU	Ok
24	P4788-01MS	BF140373.D	14 Nov 2024 20:09	RC/JU	Ok
25	P4788-01MSD	BF140374.D	14 Nov 2024 20:35	RC/JU	Ok
26	P4796-05RE	BF140375.D	14 Nov 2024 21:01	RC/JU	Confirms
27	P4796-01RE	BF140376.D	14 Nov 2024 21:28	RC/JU	Confirms
28	P4722-08DL	BF140377.D	14 Nov 2024 21:54	RC/JU	Ok,M
29	P4768-06DL	BF140378.D	14 Nov 2024 22:20	RC/JU	Ok,M
30	P4739-09DL	BF140379.D	14 Nov 2024 22:47	RC/JU	Ok
31	P4795-01RE	BF140380.D	14 Nov 2024 23:13	RC/JU	Confirms
32	P4811-01RE	BF140381.D	14 Nov 2024 23:39	RC/JU	Confirms
33	P4816-01RE	BF140382.D	15 Nov 2024 00:05	RC/JU	Confirms
34	P4807-05	BF140383.D	15 Nov 2024 00:32	RC/JU	Ok
35	P4807-05MS	BF140384.D	15 Nov 2024 00:58	RC/JU	Ok
36	P4807-05MSD	BF140385.D	15 Nov 2024 01:24	RC/JU	Ok
37	P4807-01	BF140386.D	15 Nov 2024 01:49	RC/JU	Ok
38	P4798-01	BF140387.D	15 Nov 2024 02:16	RC/JU	Dilution
39	P4789-01	BF140388.D	15 Nov 2024 02:42	RC/JU	Ok
40	P4793-01	BF140389.D	15 Nov 2024 03:08	RC/JU	Confirms

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM				
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM				
SubDirectory	BF111824	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140442.D	18 Nov 2024 09:18	RC/JU	Ok
2	SSTDCCC040	BF140443.D	18 Nov 2024 10:13	RC/JU	Ok,M
3	PB165029BL	BF140444.D	18 Nov 2024 10:39	RC/JU	Ok
4	PB165029BS	BF140445.D	18 Nov 2024 11:05	RC/JU	Ok,M
5	PB164846BS	BF140446.D	18 Nov 2024 11:32	RC/JU	Ok,M
6	PB164846BSD	BF140447.D	18 Nov 2024 11:58	RC/JU	Ok,M
7	PB164940BL	BF140448.D	18 Nov 2024 12:24	RC/JU	Ok
8	PB164940BS	BF140449.D	18 Nov 2024 12:50	RC/JU	Ok,M
9	PB164965BL	BF140450.D	18 Nov 2024 13:16	RC/JU	Ok
10	PB164965BS	BF140451.D	18 Nov 2024 13:43	RC/JU	Ok,M
11	PB164969BS	BF140452.D	18 Nov 2024 14:19	RC/JU	Ok,M
12	PB164969BL	BF140453.D	18 Nov 2024 14:45	RC/JU	Ok
13	PB164880TB	BF140454.D	18 Nov 2024 15:11	RC/JU	Ok
14	DFTPP	BF140455.D	18 Nov 2024 15:48	RC/JU	Ok
15	SSTDCCC040	BF140456.D	18 Nov 2024 16:14	RC/JU	Ok,M
16	PB164944TB	BF140457.D	18 Nov 2024 16:40	RC/JU	Ok
17	P4821-04RE	BF140458.D	18 Nov 2024 17:13	RC/JU	Confirms
18	P4861-01	BF140459.D	18 Nov 2024 17:40	RC/JU	Ok
19	P4871-01	BF140460.D	18 Nov 2024 18:06	RC/JU	Ok
20	P4848-02	BF140461.D	18 Nov 2024 18:32	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM		
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM		
SubDirectory	BF110524	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/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	BF140230.D	05 Nov 2024 11:56		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140231.D	05 Nov 2024 12:26		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140232.D	05 Nov 2024 12:52	Compound#32,54,65 Removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF140233.D	05 Nov 2024 13:18	Compound#54 Kept on LR	RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF140234.D	05 Nov 2024 13:45		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140235.D	05 Nov 2024 14:11	Calibration Good for DOD & 625.1 except for Benzidine	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF140236.D	05 Nov 2024 14:37	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF140237.D	05 Nov 2024 15:03		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140238.D	05 Nov 2024 15:30		RC/JU	Ok,M
10	SSTDICV040	ICVBF110524	BF140239.D	05 Nov 2024 16:07		RC/JU	Ok
11	PB164366BL	PB164366BL	BF140240.D	05 Nov 2024 16:37		RC/JU	Ok
12	P4368-02	LOQ-SOIL-02-QT4-202	BF140241.D	05 Nov 2024 17:03	LOQ-SOIL-5 ppm	RC/JU	Ok
13	P4368-02	LOQ-SOIL-02-QT4-202	BF140242.D	05 Nov 2024 17:30	LOQ-SOIL-10 PPM (Used for All compounds except compounds#54,77)	RC/JU	Ok,M
14	P4368-08	LOQ-WATER-02-QT4-2	BF140243.D	05 Nov 2024 17:56	LOQ-Water-5 ppm	RC/JU	Ok,M
15	P4368-02	LOQ-SOIL-02-QT4-202	BF140244.D	05 Nov 2024 18:22	LOQ-SOIL-5 ppm, Already Analyzed	RC/JU	Not Ok
16	P4368-08	LOQ-WATER-02-QT4-2	BF140245.D	05 Nov 2024 18:49	LOQ-Water-10 ppm, Internal Standard Fail	RC/JU	Not Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM		
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM		
SubDirectory	BF110524	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4368-01	LOD-MDL-SOIL-01-QT	BF140246.D	05 Nov 2024 19:15	LOD-MDL-SOIL- 4 ppm	RC/JU	Ok
18	P4368-01	LOD-MDL-SOIL-01-QT	BF140247.D	05 Nov 2024 19:41	LOD-MDL-SOIL- 8 ppm	RC/JU	Ok,M
19	P4368-07	LOD-MDL-WATER-01-(	BF140248.D	05 Nov 2024 20:07	LOD-MDL-WATER- 4 ppm	RC/JU	Ok,M
20	P4368-07	LOD-MDL-WATER-01-(	BF140249.D	05 Nov 2024 20:34	LOD-MDL-WATER- 8 ppm	RC/JU	Ok,M
21	PB164369BL	PB164369BL	BF140250.D	05 Nov 2024 21:00		RC/JU	Ok
22	SSTDCCC040	SSTDCCC040EC	BF140251.D	05 Nov 2024 21:26		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM		
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM		
SubDirectory	BF110724	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/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	BF140260.D	07 Nov 2024 08:33		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140261.D	07 Nov 2024 08:59		RC/JU	Ok
3	PB164702BL	PB164702BL	BF140262.D	07 Nov 2024 09:28		RC/JU	Ok
4	PB164702BS	PB164702BS	BF140263.D	07 Nov 2024 09:54		RC/JU	Ok,M
5	P4701-01	BP-F3	BF140264.D	07 Nov 2024 10:28		RC/JU	Ok
6	P4693-05	BP-G4-WC	BF140265.D	07 Nov 2024 10:55		RC/JU	Ok
7	P4693-05MS	BP-G4-WCMS	BF140266.D	07 Nov 2024 11:21		RC/JU	Ok,M
8	P4693-05MSD	BP-G4-WCMSD	BF140267.D	07 Nov 2024 11:48		RC/JU	Ok,M
9	P4701-05	BP-F4	BF140268.D	07 Nov 2024 12:14		RC/JU	Ok
10	P4697-01	TP-1	BF140269.D	07 Nov 2024 12:40		RC/JU	Ok
11	P4718-01	WB-307-SB01	BF140270.D	07 Nov 2024 13:07		RC/JU	Ok
12	P4718-02	WB-307-SB02	BF140271.D	07 Nov 2024 13:33		RC/JU	Ok
13	P4718-02MS	WB-307-SB02MS	BF140272.D	07 Nov 2024 14:00		RC/JU	Ok,M
14	P4718-02MSD	WB-307-SB02MSD	BF140273.D	07 Nov 2024 14:27		RC/JU	Ok,M
15	P4693-01	BP-G5-WC	BF140274.D	07 Nov 2024 14:53		RC/JU	Ok,M
16	P4695-01	Z-01	BF140275.D	07 Nov 2024 15:20	Need 5X Dilution.	RC/JU	Dilution
17	P4707-01	HD-02-110424	BF140276.D	07 Nov 2024 15:46		RC/JU	Ok,M
18	P4719-01	BAYAVE-STOCKPILE	BF140277.D	07 Nov 2024 16:13		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110724

Review By	yogesh	Review On	11/8/2024 3:38:09 AM		
Supervise By	mohammad	Supervise On	11/11/2024 12:23:52 AM		
SubDirectory	BF110724	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4694-05	Z-04	BF140278.D	07 Nov 2024 16:39	Internal Standard Fail	RC/JU	ReRun
20	P4720-01	JC-701-COMP-01	BF140279.D	07 Nov 2024 17:06	Internal Standard and Surrogate Fail, Need 2X Dilution	RC/JU	Dilution
21	P4722-13	WC-3(0-6)	BF140280.D	07 Nov 2024 17:32	Internal Standard Fail	RC/JU	Ok,M
22	P4695-01DL	Z-01DL	BF140281.D	07 Nov 2024 17:59	Internal Standard Fail	RC/JU	Not Ok
23	P4734-01	EO-03-11062024	BF140282.D	07 Nov 2024 18:25		RC/JU	Ok,M
24	P4694-01	Z-03A	BF140283.D	07 Nov 2024 18:51	Internal Standard Fail, Need 2X Dilution	RC/JU	Dilution
25	P4700-01	MH-8	BF140284.D	07 Nov 2024 19:18	Internal Standard Fail	RC/JU	Ok,M

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/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	BF140331.D	13 Nov 2024 08:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140333.D	13 Nov 2024 09:27	Compound#41,54,77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF140334.D	13 Nov 2024 09:53		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140335.D	13 Nov 2024 10:29		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	Injection Error	RC/JU	Not Ok
7	SSTDICC050	SSTDICC050	BF140337.D	13 Nov 2024 11:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140338.D	13 Nov 2024 11:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140339.D	13 Nov 2024 12:13	Compound#09 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICCC040	SSTDICCC040	BF140340.D	13 Nov 2024 12:48		RC/JU	Ok
11	SSTDICV040	ICVBF111324	BF140341.D	13 Nov 2024 13:19		RC/JU	Ok
12	PB164401BL	PB164401BL	BF140342.D	13 Nov 2024 13:45		RC/JU	Ok
13	P4495-11	PT-BNA-SOIL	BF140343.D	13 Nov 2024 15:25	PT Sample, Need 5X Dilution	RC/JU	Dilution
14	P4495-11DL	PT-BNA-SOILDL	BF140344.D	13 Nov 2024 16:02		RC/JU	Ok
15	P3845-03	PT-BN-WP	BF140345.D	13 Nov 2024 16:40	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution
16	P3845-03DL	PT-BN-WPDL	BF140346.D	13 Nov 2024 17:06		RC/JU	Ok
17	P3845-06	PT-ACIDS-WP	BF140347.D	13 Nov 2024 17:32	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution

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Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3845-06DL	PT-ACIDS-WPDL	BF140348.D	13 Nov 2024 17:58	Dilution not matching (Low results)	RC/JU	Not Ok
19	SP6681	SP6681	BF140349.D	13 Nov 2024 18:39	8270-625.1 SPIKE SOLUTION	RC/JU	Ok,NR

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM		
SubDirectory	BF111424	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/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	BF140350.D	14 Nov 2024 08:47		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140351.D	14 Nov 2024 09:42		RC/JU	Ok
3	PB164908BL	PB164908BL	BF140352.D	14 Nov 2024 10:08		RC/JU	Ok
4	PB164911BS	PB164911BS	BF140353.D	14 Nov 2024 10:34		RC/JU	Ok,M
5	PB164911BSD	PB164911BSD	BF140354.D	14 Nov 2024 11:01		RC/JU	Ok,M
6	PB164911BL	PB164911BL	BF140355.D	14 Nov 2024 11:27		RC/JU	Ok
7	P3845-06DL	PT-ACIDS-WPDL	BF140356.D	14 Nov 2024 11:54		RC/JU	Ok
8	P4762-02	EFF-WW	BF140357.D	14 Nov 2024 13:03		RC/JU	Ok
9	P4792-03	OILY-STONE-DRUM	BF140358.D	14 Nov 2024 13:29		RC/JU	Ok
10	P4837-03	3TRK-STONE	BF140359.D	14 Nov 2024 13:55		RC/JU	Ok
11	P4834-03	SLP-1-STONE	BF140360.D	14 Nov 2024 14:21		RC/JU	Ok
12	P4779-01	SOIL-01	BF140361.D	14 Nov 2024 14:47		RC/JU	Ok
13	P4838-03	T1-STONE	BF140362.D	14 Nov 2024 15:13		RC/JU	Ok
14	P4718-04	WB-307-SW	BF140363.D	14 Nov 2024 15:39		RC/JU	Ok
15	P4812-01	RBR200035	BF140364.D	14 Nov 2024 16:04		RC/JU	Ok
16	DFTPP	DFTPP	BF140365.D	14 Nov 2024 16:35		RC/JU	Ok
17	SSTDCCC040	SSTDCCC040	BF140366.D	14 Nov 2024 17:02		RC/JU	Ok
18	PB164846BL	PB164846BL	BF140367.D	14 Nov 2024 17:28		RC/JU	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # BF111424

Review By	yogesh	Review On	11/15/2024 5:15:55 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM		
SubDirectory	BF111424	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4722-10	WC-2(0-6)	BF140368.D	14 Nov 2024 17:59		RC/JU	Ok
20	P4722-15	WC-3(0-6)	BF140369.D	14 Nov 2024 18:25		RC/JU	Ok
21	P4791-02	HINCHMAN-OILY-WAT	BF140370.D	14 Nov 2024 18:51	Internal Standard Fail	RC/JU	Ok
22	P4792-04	MANHOLE-WASTE-DR	BF140371.D	14 Nov 2024 19:17		RC/JU	Ok
23	P4788-01	BP-G3	BF140372.D	14 Nov 2024 19:43		RC/JU	Ok
24	P4788-01MS	BP-G3MS	BF140373.D	14 Nov 2024 20:09		RC/JU	Ok
25	P4788-01MSD	BP-G3MSD	BF140374.D	14 Nov 2024 20:35		RC/JU	Ok
26	P4796-05RE	TP-3RE	BF140375.D	14 Nov 2024 21:01	Fax is already given	RC/JU	Confirms
27	P4796-01RE	TP-1RE	BF140376.D	14 Nov 2024 21:28	Fax is already given	RC/JU	Confirms
28	P4722-08DL	WC-2(0-6)DL	BF140377.D	14 Nov 2024 21:54		RC/JU	Ok,M
29	P4768-06DL	B-6-2DL	BF140378.D	14 Nov 2024 22:20		RC/JU	Ok,M
30	P4739-09DL	BP-B2DL	BF140379.D	14 Nov 2024 22:47		RC/JU	Ok
31	P4795-01RE	LAW-23-00189RE	BF140380.D	14 Nov 2024 23:13	Fax is already given	RC/JU	Confirms
32	P4811-01RE	RB24008RE	BF140381.D	14 Nov 2024 23:39	Internal Standard Fail	RC/JU	Confirms
33	P4816-01RE	331RE	BF140382.D	15 Nov 2024 00:05	Fax is already given	RC/JU	Confirms
34	P4807-05	BF-F14	BF140383.D	15 Nov 2024 00:32		RC/JU	Ok
35	P4807-05MS	BF-F14MS	BF140384.D	15 Nov 2024 00:58		RC/JU	Ok
36	P4807-05MSD	BF-F14MSD	BF140385.D	15 Nov 2024 01:24		RC/JU	Ok
37	P4807-01	TP-7	BF140386.D	15 Nov 2024 01:49		RC/JU	Ok

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Review By	yogesh	Review On	11/15/2024 5:15:55 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:37 AM		
SubDirectory	BF111424	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4798-01	MH-6	BF140387.D	15 Nov 2024 02:16	Need 2X Dilution	RC/JU	Dilution
39	P4789-01	BP-F21	BF140388.D	15 Nov 2024 02:42		RC/JU	Ok
40	P4793-01	M00-24-00345	BF140389.D	15 Nov 2024 03:08		RC/JU	Confirms

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM		
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM		
SubDirectory	BF111824	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/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	BF140442.D	18 Nov 2024 09:18		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140443.D	18 Nov 2024 10:13		RC/JU	Ok,M
3	PB165029BL	PB165029BL	BF140444.D	18 Nov 2024 10:39		RC/JU	Ok
4	PB165029BS	PB165029BS	BF140445.D	18 Nov 2024 11:05		RC/JU	Ok,M
5	PB164846BS	PB164846BS	BF140446.D	18 Nov 2024 11:32		RC/JU	Ok,M
6	PB164846BSD	PB164846BSD	BF140447.D	18 Nov 2024 11:58		RC/JU	Ok,M
7	PB164940BL	PB164940BL	BF140448.D	18 Nov 2024 12:24		RC/JU	Ok
8	PB164940BS	PB164940BS	BF140449.D	18 Nov 2024 12:50		RC/JU	Ok,M
9	PB164965BL	PB164965BL	BF140450.D	18 Nov 2024 13:16		RC/JU	Ok
10	PB164965BS	PB164965BS	BF140451.D	18 Nov 2024 13:43		RC/JU	Ok,M
11	PB164969BS	PB164969BS	BF140452.D	18 Nov 2024 14:19		RC/JU	Ok,M
12	PB164969BL	PB164969BL	BF140453.D	18 Nov 2024 14:45		RC/JU	Ok
13	PB164880TB	PB164880TB	BF140454.D	18 Nov 2024 15:11		RC/JU	Ok
14	DFTPP	DFTPP	BF140455.D	18 Nov 2024 15:48		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140456.D	18 Nov 2024 16:14		RC/JU	Ok,M
16	PB164944TB	PB164944TB	BF140457.D	18 Nov 2024 16:40		RC/JU	Ok
17	P4821-04RE	BP-F-24RE	BF140458.D	18 Nov 2024 17:13	Surrogate Fail	RC/JU	Confirms
18	P4861-01	WC-11-A-202411	BF140459.D	18 Nov 2024 17:40		RC/JU	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM		
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM		
SubDirectory	BF111824	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4871-01	WC-10-A-202411	BF140460.D	18 Nov 2024 18:06		RC/JU	Ok
20	P4848-02	TP-1	BF140461.D	18 Nov 2024 18:32		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164702

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/06/2024
Matrix :	Solid			**Extraction Start Time :**	09:45
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/06/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
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	EP2556
Sand	N/A	E2865
Methylene Chloride	N/A	E3823
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
11/6/24	RP (Ext. Lab)	AC/SVOC
13:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164702

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164702BL	SBLK702	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			U5-1
PB164702BS	SLCS702	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			2
P4706-01	TR-04-110424	SVOC-TCL BNA -20	50.08	N/A	ritesh	RUPESH	1	D		3
P4707-01	HD-02-110424	SVOC-TCL BNA -20	50.03	N/A	ritesh	RUPESH	1	D		4
P4708-01	OR-02-110424	SVOC-TCL BNA -20	50.01	N/A	ritesh	RUPESH	1	D		5
P4709-01	HR-02-110424	SVOC-TCL BNA -20	50.04	N/A	ritesh	RUPESH	1	D		6
P4709-03	HR-03-110424	SVOC-TCL BNA -20	50.09	N/A	ritesh	RUPESH	1	D		U6-1
P4718-01	WB-307-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1	E		2
P4718-02	WB-307-SB02	SVOC-TCL BNA -20	30.08	N/A	ritesh	RUPESH	1	E		3
P4718-02MS	WB-307-SB02MS	SVOC-TCL BNA -20	30.02	N/A	ritesh	RUPESH	1	E		4
P4718-02MSD	WB-307-SB02MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	RUPESH	1	E		5
P4719-01	BAYAVE-STOCKPILE	SVOC-TCL BNA -20	50.06	N/A	ritesh	RUPESH	1	E		6

11/6/24

* **Extracts relinquished on the same date as received.**

P4718

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4709 **WorkList ID :** 185156 **Department :** Extraction **Date :** 11-06-2024 08:19:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4706-01	TR-04-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4707-01	HD-02-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4708-01	OR-02-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4709-01	HR-02-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4709-03	HR-03-110424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L23	11/04/2024	8270E
P4718-01	WB-307-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L21	11/04/2024	8270E
P4718-02	WB-307-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L21	11/04/2024	8270E
P4719-01	BAYAVE-STOCKPILE	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K21	11/05/2024	8270E

470 of 1396

Date/Time 11/6/24 9:40

Raw Sample Received by: RJ (Eagle Analytical)

Raw Sample Relinquished by:

Date/Time 11/6/24 10:10

Raw Sample Received by:

Raw Sample Relinquished by: RJ (Eagle Analytical)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164846

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/09/2024
Matrix :	Water			**Extraction Start Time :**	08:38
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	11/09/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	15:35
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,5,6,7	**Supervisor By :**	rajesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	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
Methylene Chloride	N/A	E3817
Baked Na2SO4	N/A	EP2551
10N NaoH	N/A	EP2550
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
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH. P4718-004 Limited volume recd.

KD Bath ID:	Water bath -01,02	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/9/24	RP (Ext. Lab)	RC/SVOC
15:40	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164846

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/09/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164846BL	SBLK846	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB164846BS	SLCS846	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
PB164846BSD	SLCSD846	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			3
P4718-04	WB-307-SW	SVOC-TCL BNA -20	450	6	RUPESH	rajesh	0.5	E		4
P4791-02	HINCHMAN-OILY-WATER	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1	Q		5
P4792-04	MANHOLE-WASTE-DRUMS	SVOC-TCL BNA -20	980	6	RUPESH	rajesh	1	K		

* **Extracts relinquished on the same date as received.**

4/9/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4792 **WorkList ID :** 185307 **Department :** Extraction **Date :** 11-09-2024 08:26:59

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-04	WB-307-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L21	11/04/2024	8270E
P4791-02	HINCHMAN-OILY-WATER	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L23	11/08/2024	8270E
P4792-04	MANHOLE-WASTE-DRUMS	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L21	11/08/2024	8270E

Date/Time 11/10/24 8:35
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: RS (B4 Lab)

Date/Time 11/10/24 9:05
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: RJ (Ext Lab)

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			SVOC-TCL BNA -20	8270E		11/06/24	11/07/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			SVOC-TCL BNA -20	8270E		11/06/24	11/07/24	
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP BNA	8270E		11/07/24	11/11/24	
P4718-04	**WB-307-SW**	**Water**			**11/04/24**			**11/05/24**
			SVOC-TCL BNA -20	8270E		11/09/24	11/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140330.D	1	11/07/24 11:30	11/11/24 21:03	PB164765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	126		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (49) - 130 (133)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.7		30 (52) - 130 (132)	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	90.3		30 (48) - 130 (125)	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	152000	6.875			
1146-65-2	Naphthalene-d8	584000	8.151			
15067-26-2	Acenaphthene-d10	327000	9.91			
1517-22-2	Phenanthrene-d10	622000	11.398			
1719-03-5	Chrysene-d12	380000	14.045			
1520-96-3	Perylene-d12	304000	15.539			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140330.D	1	11/07/24 11:30	11/11/24 21:03	PB164765

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:	11/07/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/07/24
Client Sample ID:	PB164694TB	SDG No.:	P4718
Lab Sample ID:	PB164694TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BE101547.D	1	11/07/24 11:30	11/08/24 12:03	PB164765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	177	*	15 (10) - 110 (139)	118%	SPK: 150
13127-88-3	Phenol-d6	166	*	15 (10) - 110 (134)	111%	SPK: 150
4165-60-0	Nitrobenzene-d5	110		30 (49) - 130 (133)	110%	SPK: 100
321-60-8	2-Fluorobiphenyl	110		30 (52) - 130 (132)	110%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		15 (44) - 110 (137)	104%	SPK: 150
1718-51-0	Terphenyl-d14	112		30 (48) - 130 (125)	112%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34900	7.555			
1146-65-2	Naphthalene-d8	150000	10.329			
15067-26-2	Acenaphthene-d10	99900	14.171			
1517-22-2	Phenanthrene-d10	241000	16.909			
1719-03-5	Chrysene-d12	325000	21.069			
1520-96-3	Perylene-d12	415000	23.349			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	11/07/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	11/07/24
Client Sample ID:	PB164694TB			SDG No.:	P4718
Lab Sample ID:	PB164694TB			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
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
BE101547.D	1	11/07/24 11:30	11/08/24 12:03	PB164765

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

Alliance TECHNICAL GROUP
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Surrogate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4718-03	WB-307-SB02	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	126	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.4	87		30 (49)	130 (133)
		2-Fluorobiphenyl	100	83.7	84		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	137	92		15 (44)	110 (137)
		Terphenyl-d14	100	90.3	90		30 (48)	130 (125)
P4739-04MS	TP-14MS	2-Fluorophenol	150	175	117	*	15 (10)	110 (139)
		Phenol-d6	150	155	103		15 (10)	110 (134)
		Nitrobenzene-d5	100	112	112		30 (49)	130 (133)
		2-Fluorobiphenyl	100	110	110		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	166	110		15 (44)	110 (137)
		Terphenyl-d14	100	115	115		30 (48)	130 (125)
P4739-04MSD	TP-14MSD	2-Fluorophenol	150	175	117	*	15 (10)	110 (139)
		Phenol-d6	150	156	104		15 (10)	110 (134)
		Nitrobenzene-d5	100	114	114		30 (49)	130 (133)
		2-Fluorobiphenyl	100	109	109		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	168	112	*	15 (44)	110 (137)
		Terphenyl-d14	100	115	115		30 (48)	130 (125)
PB164694TB	PB164694TB	2-Fluorophenol	150	177	118	*	15 (10)	110 (139)
		Phenol-d6	150	166	111	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	110	110		30 (49)	130 (133)
		2-Fluorobiphenyl	100	110	110		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	157	104		15 (44)	110 (137)
		Terphenyl-d14	100	112	112		30 (48)	130 (125)
PB164765BL	PB164765BL	2-Fluorophenol	150	148	99		15 (10)	110 (139)
		Phenol-d6	150	146	97		15 (10)	110 (134)
		Nitrobenzene-d5	100	101	101		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.3	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	184	122	*	15 (44)	110 (137)
		Terphenyl-d14	100	96.4	96		30 (48)	130 (125)
PB164765BS	PB164765BS	2-Fluorophenol	150	175	116	*	15 (10)	110 (139)
		Phenol-d6	150	164	109		15 (10)	110 (134)
		Nitrobenzene-d5	100	103	103		30 (49)	130 (133)
		2-Fluorobiphenyl	100	103	103		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	149	99		15 (44)	110 (137)
		Terphenyl-d14	100	104	104		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

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: P4739-04MS		**Client Sample ID: TP-14MS**						**DataFile: BE101557.D**			
Pyridine	500	0	340	ug/L	68				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	520	ug/L	104				70 (55)	130 (125)	
2-Methylphenol	500	0	560	ug/L	112				70 (37)	130 (126)	
3+4-Methylphenols	500	0	540	ug/L	108				20 (31)	160 (127)	
Hexachloroethane	500	0	520	ug/L	104				20 (49)	160 (110)	
Nitrobenzene	500	0	540	ug/L	108				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	510	ug/L	102				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	590	ug/L	118				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	580	ug/L	116				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	550	ug/L	110				70 (50)	130 (142)	
Hexachlorobenzene	500	0	550	ug/L	110				70 (72)	130 (115)	
Pentachlorophenol	1000	0	1300	ug/L	130				20 (25)	160 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

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: P4739-04MSD		**Client Sample ID: TP-14MSD**						**DataFile: BE101558.D**			
Pyridine	500	0	330	ug/L	66	3			20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	510	ug/L	102	2			70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	550	ug/L	110	2			70 (37)	130 (126)	20 (20)
3+4-Methylphenols	500	0	550	ug/L	110	2			20 (31)	160 (127)	20 (20)
Hexachloroethane	500	0	510	ug/L	102	2			20 (49)	160 (110)	20 (20)
Nitrobenzene	500	0	550	ug/L	110	2			70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	510	ug/L	102	0			70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	590	ug/L	118	0			70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	580	ug/L	116	0			70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	560	ug/L	112	2			70 (50)	130 (142)	20 (20)
Hexachlorobenzene	500	0	540	ug/L	108	2			70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	1200	ug/L	120	8			20 (25)	160 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101546.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164765BS	Pyridine	50	38.5	ug/L	77				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	48.0	ug/L	96				70 (76)	130 (103)	
	2-Methylphenol	50	53.8	ug/L	108				70 (69)	130 (109)	
	3+4-Methylphenols	50	52.7	ug/L	105				20 (67)	160 (106)	
	Hexachloroethane	50	47.3	ug/L	95				20 (76)	160 (118)	
	Nitrobenzene	50	49.6	ug/L	99				70 (58)	130 (106)	
	Hexachlorobutadiene	50	44.9	ug/L	90				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	52.2	ug/L	104				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	51.0	ug/L	102				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	50.2	ug/L	100				70 (60)	130 (115)	
	Hexachlorobenzene	50	48.3	ug/L	97				70 (73)	130 (106)	
	Pentachlorophenol	100	110	ug/L	110				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164765BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140287.D Lab Sample ID: PB164765BL

Instrument ID: BNA_F Date Extracted: 11/07/2024

Matrix: (soil/water) water Date Analyzed: 11/08/2024

Level: (low/med) LOW Time Analyzed: 10:02

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WB-307-SB02	P4718-03	BF140330.D	11/11/2024
TP-14MS	P4739-04MS	BE101557.D	11/08/2024
TP-14MSD	P4739-04MSD	BE101558.D	11/08/2024
PB164765BS	PB164765BS	BE101546.D	11/08/2024
PB164694TB	PB164694TB	BE101547.D	11/08/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BE101491.D DFTPP Injection Date: 11/06/2024

Instrument ID: BNA_E DFTPP Injection Time: 11:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	14.8
68	Less than 2.0% of mass 69	0.2 (1.3) 1
69	Mass 69 relative abundance	16
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	23.5
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	3.6
275	10.0 - 60.0% of mass 198	18.3
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	16.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 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	BE101493.D	11/06/2024	13:51
SSTDICC005	SSTDICC005	BE101494.D	11/06/2024	14:27
SSTDICC010	SSTDICC010	BE101495.D	11/06/2024	15:03
SSTDICC020	SSTDICC020	BE101496.D	11/06/2024	15:39
SSTDICCC040	SSTDICCC040	BE101497.D	11/06/2024	16:14
SSTDICC050	SSTDICC050	BE101498.D	11/06/2024	16:50
SSTDICC060	SSTDICC060	BE101499.D	11/06/2024	17:26
SSTDICC080	SSTDICC080	BE101500.D	11/06/2024	18:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BE101543.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	16.2
68	Less than 2.0% of mass 69	0.2 (1) 1
69	Mass 69 relative abundance	17.2
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	24.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	3.8
275	10.0 - 60.0% of mass 198	19.1
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	16.4
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	BE101544.D	11/08/2024	10:07
PB164765BS	PB164765BS	BE101546.D	11/08/2024	11:27
PB164694TB	PB164694TB	BE101547.D	11/08/2024	12:03
TP-14MS	P4739-04MS	BE101557.D	11/08/2024	18:07
TP-14MSD	P4739-04MSD	BE101558.D	11/08/2024	18:43

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140230.D DFTPP Injection Date: 11/05/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.4
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	36.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.5
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 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	BF140231.D	11/05/2024	12:26
SSTDICC005	SSTDICC005	BF140232.D	11/05/2024	12:52
SSTDICC010	SSTDICC010	BF140233.D	11/05/2024	13:18
SSTDICC020	SSTDICC020	BF140234.D	11/05/2024	13:45
SSTDICCC040	SSTDICCC040	BF140235.D	11/05/2024	14:11
SSTDICC050	SSTDICC050	BF140236.D	11/05/2024	14:37
SSTDICC060	SSTDICC060	BF140237.D	11/05/2024	15:03
SSTDICC080	SSTDICC080	BF140238.D	11/05/2024	15:30

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140285.D DFTPP Injection Date: 11/08/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.4
68	Less than 2.0% of mass 69	0.5 (2) 1
69	Mass 69 relative abundance	27.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	36.3
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.8
275	10.0 - 60.0% of mass 198	25.2
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (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	BF140286.D	11/08/2024	09:35
PB164765BL	PB164765BL	BF140287.D	11/08/2024	10:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4718 SDG NO.: P4718

Lab File ID: BF140311.D DFTPP Injection Date: 11/11/2024

Instrument ID: BNA_F DFTPP Injection Time: 12:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	39.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	50.4
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	6.6
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	84.1
443	15.0 - 24.0% of mass 442	15.8 (18.8) 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	BF140312.D	11/11/2024	12:55
SSTDICC005	SSTDICC005	BF140313.D	11/11/2024	13:21
SSTDICC010	SSTDICC010	BF140314.D	11/11/2024	13:48
SSTDICC020	SSTDICC020	BF140315.D	11/11/2024	14:14
SSTDICCC040	SSTDICCC040	BF140316.D	11/11/2024	14:40
SSTDICC050	SSTDICC050	BF140317.D	11/11/2024	15:07
SSTDICC060	SSTDICC060	BF140318.D	11/11/2024	15:34
SSTDICC080	SSTDICC080	BF140319.D	11/11/2024	16:00
WB-307-SB02	P4718-03	BF140330.D	11/11/2024	21:03

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	51174	7.558	237509	10.33	179651	14.17
	UPPER LIMIT	102348	8.058	475018	10.826	359302	14.674
	LOWER LIMIT	25587	7.058	118755	9.826	89825.5	13.674
	EPA SAMPLE NO.						
01	PB164765BS	39669	7.56	182397	10.33	121151	14.17
02	PB164694TB	34932	7.56	149600	10.33	99908	14.17
03	TP-14MS	47543	7.56	202399	10.33	130758	14.17
04	TP-14MSD	43513	7.56	182419	10.33	120731	14.17

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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BE101544.D Time Analyzed: 10:07

Instrument ID: BNA_E GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	420948	16.912	472751	21.072	602462	23.357
	UPPER LIMIT	841896	17.412	945502	21.572	1204920	23.857
	LOWER LIMIT	210474	16.412	236376	20.572	301231	22.857
	EPA SAMPLE NO.						
01	PB164765BS	268998	16.91	348750	21.07	477959	23.35
02	PB164694TB	241198	16.91	324971	21.07	414995	23.35
03	TP-14MS	298419	16.91	369646	21.07	476783	23.35
04	TP-14MSD	285084	16.91	361953	21.07	460616	23.35

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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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	203786	6.881	760595	8.16	473134	9.92
	UPPER LIMIT	407572	7.381	1521190	8.663	946268	10.422
	LOWER LIMIT	101893	6.381	380298	7.663	236567	9.422
	EPA SAMPLE NO.						
01	PB164765BL	180593	6.88	699300	8.16	441390	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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/08/2024

Lab File ID: BF140286.D Time Analyzed: 09:35

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	883136	11.41	554697	14.063	449723	15.551
	UPPER LIMIT	1766270	11.91	1109390	14.563	899446	16.051
	LOWER LIMIT	441568	10.91	277349	13.563	224862	15.051
	EPA SAMPLE NO.						
01	PB164765BL	869591	11.40	647570	14.05	498484	15.55

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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/11/2024

Lab File ID: BF140316.D Time Analyzed: 14:40

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	189983	6.881	695152	8.16	378824	9.92
	UPPER LIMIT	379966	7.381	1390300	8.663	757648	10.416
	LOWER LIMIT	94991.5	6.381	347576	7.663	189412	9.416
	EPA SAMPLE NO.						
01	WB-307-SB02	152118	6.88	583727	8.15	327078	9.91

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.: P4718 SAS No.: P4718 SDG NO.: P4718

EPA Sample No.: SSTDICCC040 Date Analyzed: 11/11/2024

Lab File ID: BF140316.D Time Analyzed: 14:40

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	693253	11.404	385013	14.057	351794	15.557
	UPPER LIMIT	1386510	11.904	770026	14.557	703588	16.057
	LOWER LIMIT	346627	10.904	192507	13.557	175897	15.057
	EPA SAMPLE NO.						
01	WB-307-SB02	621899	11.40	380235	14.05	303804	15.54

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164765BL	SDG No.:	P4718
Lab Sample ID:	PB164765BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140287.D	1	11/07/24 11:30	11/08/24 10:02	PB164765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	148		15 (10) - 110 (139)	99%	SPK: 150
13127-88-3	Phenol-d6	146		15 (10) - 110 (134)	97%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (49) - 130 (133)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.3		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	184	*	15 (44) - 110 (137)	122%	SPK: 150
1718-51-0	Terphenyl-d14	96.4		30 (48) - 130 (125)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	181000	6.875			
1146-65-2	Naphthalene-d8	699000	8.157			
15067-26-2	Acenaphthene-d10	441000	9.916			
1517-22-2	Phenanthrene-d10	870000	11.404			
1719-03-5	Chrysene-d12	648000	14.051			
1520-96-3	Perylene-d12	498000	15.545			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164765BL	SDG No.:	P4718
Lab Sample ID:	PB164765BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140287.D	1	11/07/24 11:30	11/08/24 10:02	PB164765

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:	PB164765BS	SDG No.:	P4718
Lab Sample ID:	PB164765BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101546.D	1	11/07/24 11:30	11/08/24 11:27	PB164765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	38.5		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	48.0		0.84	5.00	ug/L
95-48-7	2-Methylphenol	53.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	52.7		1.20	10.0	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	49.6		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.9		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	52.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	51.0		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	50.2		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	48.3		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175	*	15 (10) - 110 (139)	116%	SPK: 150
13127-88-3	Phenol-d6	164		15 (10) - 110 (134)	109%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		30 (49) - 130 (133)	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	103		30 (52) - 130 (132)	103%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		15 (44) - 110 (137)	99%	SPK: 150
1718-51-0	Terphenyl-d14	104		30 (48) - 130 (125)	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	39700	7.559			
1146-65-2	Naphthalene-d8	182000	10.326			
15067-26-2	Acenaphthene-d10	121000	14.169			
1517-22-2	Phenanthrene-d10	269000	16.907			
1719-03-5	Chrysene-d12	349000	21.072			
1520-96-3	Perylene-d12	478000	23.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164765BS			SDG No.:	P4718
Lab Sample ID:	PB164765BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101546.D	1	11/07/24 11:30	11/08/24 11:27	PB164765

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:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	TP-14MS	SDG No.:	P4718
Lab Sample ID:	P4739-04MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101557.D	1	11/07/24 11:30	11/08/24 18:07	PB164765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	340		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	520		8.40	50.0	ug/L
95-48-7	2-Methylphenol	560		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	540		11.5	100	ug/L
67-72-1	Hexachloroethane	520		10.1	50.0	ug/L
98-95-3	Nitrobenzene	540		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	510		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	590		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	580		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	550		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	550		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1300	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175	*	15 (10) - 110 (139)	117%	SPK: 150
13127-88-3	Phenol-d6	155		15 (10) - 110 (134)	103%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		30 (49) - 130 (133)	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	110		30 (52) - 130 (132)	110%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		15 (44) - 110 (137)	110%	SPK: 150
1718-51-0	Terphenyl-d14	115		30 (48) - 130 (125)	115%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	47500	7.558			
1146-65-2	Naphthalene-d8	202000	10.326			
15067-26-2	Acenaphthene-d10	131000	14.168			
1517-22-2	Phenanthrene-d10	298000	16.906			
1719-03-5	Chrysene-d12	370000	21.072			
1520-96-3	Perylene-d12	477000	23.351			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	TP-14MS	SDG No.:	P4718
Lab Sample ID:	P4739-04MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101557.D	1	11/07/24 11:30	11/08/24 18:07	PB164765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
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E = Value Exceeds Calibration Range
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	TP-14MSD	SDG No.:	P4718
Lab Sample ID:	P4739-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101558.D	1	11/07/24 11:30	11/08/24 18:43	PB164765

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	330		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	510		8.40	50.0	ug/L
95-48-7	2-Methylphenol	550		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	550		11.5	100	ug/L
67-72-1	Hexachloroethane	510		10.1	50.0	ug/L
98-95-3	Nitrobenzene	550		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	510		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	590		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	580		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	560		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	540		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	1200	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175	*	15 (10) - 110 (139)	117%	SPK: 150
13127-88-3	Phenol-d6	156		15 (10) - 110 (134)	104%	SPK: 150
4165-60-0	Nitrobenzene-d5	114		30 (49) - 130 (133)	114%	SPK: 100
321-60-8	2-Fluorobiphenyl	109		30 (52) - 130 (132)	109%	SPK: 100
118-79-6	2,4,6-Tribromophenol	168	*	15 (44) - 110 (137)	112%	SPK: 150
1718-51-0	Terphenyl-d14	115		30 (48) - 130 (125)	115%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	43500	7.558			
1146-65-2	Naphthalene-d8	182000	10.326			
15067-26-2	Acenaphthene-d10	121000	14.168			
1517-22-2	Phenanthrene-d10	285000	16.906			
1719-03-5	Chrysene-d12	362000	21.072			
1520-96-3	Perylene-d12	461000	23.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	TP-14MSD	SDG No.:	P4718
Lab Sample ID:	P4739-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101558.D	1	11/07/24 11:30	11/08/24 18:43	PB164765

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

CALIBRATION SUMMARY

Response Factor Report BNA_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 00:01:20 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101493.D 5 =BE101494.D 10 =BE101495.D 20 =BE101496.D 40 =BE101497.D 50 =BE101498.D 60 =BE101499.D 80 =BE1015
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.495	0.458	0.438	0.406	0.378	0.394	0.378	0.421	10.54
3)		Pyridine		1.154	1.183	1.143	1.154	1.192	1.230	1.186	1.177	2.53
4)		n-Nitrosodimet...		0.509	0.465	0.446	0.445	0.461	0.473	0.464	0.466	4.58
5)	S	2-Fluorophenol		1.161	1.135	1.120	1.101	1.114	1.159	1.127	1.131	1.99
6)		Aniline		1.323	1.251	1.316	1.368	1.026	1.044	0.819	1.164	17.52
7)	S	Phenol-d6		1.494	1.525	1.558	1.540	1.571	1.617	1.551	1.551	2.49
8)		2-Chlorophenol		1.339	1.343	1.359	1.316	1.336	1.364	1.324	1.340	1.30
9)		Benzaldehyde		0.902	0.930	0.875	0.767	0.654	0.640	0.542	0.759	19.80
10)	C	Phenol		1.646	1.682	1.702	1.664	1.709	1.764	1.649	1.688	2.45
11)		bis(2-Chloroet...		1.362	1.474	1.392	1.165	1.446	1.447	1.497	1.397	8.03
12)		1,3-Dichlorobe...		1.573	1.526	1.491	1.424	1.410	1.437	1.379	1.463	4.74
13)	C	1,4-Dichlorobe...		1.565	1.543	1.508	1.444	1.437	1.464	1.412	1.482	3.89
14)		1,2-Dichlorobe...		1.559	1.496	1.481	1.418	1.416	1.435	1.378	1.455	4.20
15)		Benzyl Alcohol		0.791	0.861	0.910	0.919	0.958	0.977	0.926	0.906	6.94
16)		2,2'-oxybis(1-...		1.733	1.690	1.700	1.628	1.625	1.636	1.567	1.654	3.41
17)		2-Methylphenol		1.015	1.041	1.073	1.113	1.123	1.163	1.123	1.093	4.76
18)		Hexachloroethane		0.524	0.509	0.507	0.484	0.494	0.501	0.483	0.500	2.95
19)	P	n-Nitroso-di-n...	0.958	0.996	1.040	1.058	1.027	1.046	1.057	0.998	1.023	3.48
20)		3+4-Methylphenols		1.376	1.483	1.529	1.524	1.558	1.606	1.530	1.515	4.74
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.462	0.460	0.461	0.443	0.447	0.455	0.443	0.453	1.91
23)	S	Nitrobenzene-d5		0.313	0.316	0.318	0.312	0.318	0.325	0.313	0.317	1.46
24)		Nitrobenzene		0.325	0.329	0.330	0.324	0.329	0.338	0.330	0.329	1.41
25)		Isophorone		0.599	0.619	0.632	0.611	0.618	0.630	0.605	0.616	1.98
26)	C	2-Nitrophenol		0.159	0.167	0.175	0.174	0.182	0.187	0.183	0.175	5.41
27)		2,4-Dimethylph...		0.196	0.199	0.204	0.198	0.205	0.212	0.206	0.203	2.83
28)		bis(2-Chloroet...		0.376	0.383	0.386	0.371	0.375	0.381	0.369	0.377	1.65
29)	C	2,4-Dichloroph...		0.275	0.279	0.289	0.283	0.294	0.302	0.294	0.288	3.35
30)		1,2,4-Trichlor...		0.344	0.326	0.323	0.311	0.313	0.321	0.312	0.321	3.63
31)		Naphthalene		1.071	1.033	1.027	0.983	0.983	1.003	0.968	1.010	3.58
32)		Benzoic acid			0.112	0.137	0.166	0.191	0.202	0.202	0.168	22.18
33)		4-Chloroaniline		0.342	0.364	0.371	0.358	0.356	0.361	0.334	0.355	3.65
34)	C	Hexachlorobuta...		0.209	0.198	0.202	0.192	0.195	0.198	0.193	0.198	2.95
35)		Caprolactam		0.097	0.107	0.107	0.107	0.106	0.111	0.105	0.106	4.09
36)	C	4-Chloro-3-met...		0.293	0.318	0.316	0.312	0.318	0.327	0.317	0.314	3.27
37)		2-Methylnaphth...		0.744	0.733	0.733	0.706	0.705	0.715	0.684	0.717	2.93
38)		1-Methylnaphth...		0.752	0.738	0.734	0.696	0.697	0.711	0.679	0.715	3.72

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.546	0.518	0.535	0.513	0.519	0.535	0.525	0.527	2.24
41)	P	Hexachlorocycl...	0.106	0.128	0.153	0.167	0.175	0.178	0.171	0.154	17.72
42)	S	2,4,6-Tribromo...	0.388	0.391	0.391	0.369	0.364	0.375	0.357	0.376	3.64
43)	C	2,4,6-Trichlor...	0.358	0.352	0.360	0.358	0.361	0.376	0.369	0.362	2.21
44)		2,4,5-Trichlor...	0.390	0.381	0.402	0.400	0.411	0.425	0.415	0.403	3.71
45)	S	2-Fluorobiphenyl	1.353	1.295	1.299	1.204	1.160	1.163	1.100	1.225	7.52
46)		1,1'-Biphenyl	1.451	1.416	1.424	1.336	1.344	1.366	1.320	1.380	3.66
47)		2-Chloronaphth...	1.124	1.104	1.115	1.060	1.065	1.091	1.060	1.088	2.49
48)		2-Nitroaniline	0.248	0.273	0.292	0.288	0.300	0.312	0.302	0.288	7.44
49)		Acenaphthylene	1.664	1.660	1.661	1.584	1.586	1.629	1.565	1.622	2.62
50)		Dimethylphthalate	1.500	1.479	1.478	1.389	1.368	1.403	1.352	1.424	4.22
51)		2,6-Dinitrotol...	0.316	0.330	0.336	0.324	0.327	0.338	0.329	0.329	2.23
52)	C	Acenaphthene	1.116	1.075	1.080	1.007	0.996	1.007	0.962	1.035	5.38
53)		3-Nitroaniline	0.282	0.320	0.335	0.328	0.323	0.333	0.314	0.319	5.67
54)	P	2,4-Dinitrophenol		0.139	0.178	0.194	0.208	0.220	0.217	0.193	15.82
55)		Dibenzofuran	1.799	1.736	1.724	1.615	1.591	1.629	1.568	1.666	5.20
56)	P	4-Nitrophenol	0.197	0.235	0.278	0.275	0.274	0.295	0.290	0.264	13.26
57)		2,4-Dinitrotol...	0.426	0.456	0.480	0.460	0.463	0.482	0.466	0.462	3.99
58)		Fluorene	1.490	1.475	1.458	1.363	1.328	1.347	1.272	1.391	6.03
59)		2,3,4,6-Tetrac...	0.379	0.366	0.377	0.369	0.370	0.381	0.372	0.373	1.53
60)		Diethylphthalate	1.600	1.579	1.577	1.457	1.442	1.460	1.397	1.502	5.41
61)		4-Chlorophenyl...	0.757	0.736	0.733	0.689	0.680	0.692	0.657	0.706	5.12
62)		4-Nitroaniline	0.285	0.334	0.359	0.349	0.355	0.366	0.359	0.344	8.07
63)		Azobenzene	1.283	1.269	1.289	1.196	1.183	1.203	1.153	1.225	4.44
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.084	0.104	0.117	0.123	0.131	0.136	0.135	0.119	15.97
66)	c	n-Nitrosodiphe...	0.550	0.534	0.545	0.519	0.526	0.533	0.509	0.531	2.68
67)		4-Bromophenyl-...	0.226	0.218	0.221	0.214	0.221	0.225	0.219	0.221	1.85
68)		Hexachlorobenzene	0.301	0.290	0.295	0.282	0.287	0.294	0.283	0.290	2.33
69)		Atrazine	0.202	0.187	0.151	0.171	0.121	0.135	0.130	0.157	19.70
70)	C	Pentachlorophenol	0.129	0.139	0.155	0.162	0.167	0.176	0.176	0.158	11.39
71)		Phenanthrene	1.067	1.000	1.016	0.942	0.936	0.947	0.901	0.973	5.87
72)		Anthracene	1.030	0.985	0.998	0.943	0.932	0.949	0.887	0.961	4.94
73)		Carbazole	1.030	1.003	1.001	0.940	0.924	0.947	0.899	0.963	5.00
74)		Di-n-butylphth...	1.312	1.269	1.261	1.170	1.128	1.121	1.068	1.190	7.68
75)	C	Fluoranthene	1.442	1.353	1.316	1.208	1.157	1.158	1.096	1.247	10.04
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.324	0.433	0.250	0.403	0.656	0.503	0.440	0.430	30.17
78)		Pyrene	1.201	1.158	1.199	1.130	1.125	1.117	1.036	1.138	4.95
79)	S	Terphenyl-d14	1.065	1.023	1.028	0.902	0.819	0.780	0.707	0.904	15.44
80)		Butylbenzylpht...	0.541	0.522	0.531	0.507	0.500	0.505	0.474	0.511	4.31
81)		Benzo(a)anthra...	1.334	1.258	1.258	1.170	1.138	1.118	1.040	1.188	8.47
82)		3,3'-Dichlorob...	0.466	0.474	0.480	0.469	0.478	0.467	0.439	0.468	2.92
83)		Chrysene	1.261	1.215	1.207	1.116	1.074	1.050	0.979	1.129	9.06
84)		Bis(2-ethylhex...	0.857	0.816	0.822	0.760	0.738	0.733	0.686	0.773	7.81
85)	c	Di-n-octyl pht...	1.510	1.430	1.383	1.284	1.226	1.203	1.119	1.308	10.60

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE110624.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.480	1.394	1.411	1.347	1.342	1.357	1.290	1.374	4.40
88)		Benzo(b)fluora...	1.220	1.158	1.107	1.056	1.053	1.073	1.014	1.097	6.46
89)		Benzo(k)fluora...	1.119	1.045	1.080	0.977	0.966	0.937	0.849	0.996	9.23
90)	C	Benzo(a)pyrene	1.023	0.974	0.977	0.926	0.923	0.931	0.877	0.947	5.02
91)		Dibenzo(a,h)an...	1.250	1.169	1.189	1.128	1.111	1.119	1.047	1.145	5.68
92)		Benzo(g,h,i)pe...	1.239	1.164	1.182	1.133	1.148	1.162	1.113	1.163	3.46

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 16:47:56 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140231.D 5 =BF140232.D 10 =BF140233.D 20 =BF140234.D 40 =BF140235.D 50 =BF140236.D 60 =BF140237.D 80 =BF1402
38.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.613	0.582	0.576	0.550	0.526	0.527	0.511	0.555	6.64
3)		Pyridine		1.464	1.445	1.402	1.340	1.296	1.298	1.233	1.354	6.33
4)		n-Nitrosodimet...		0.799	0.792	0.802	0.780	0.767	0.786	0.746	0.782	2.52
5)	S	2-Fluorophenol		1.359	1.298	1.261	1.159	1.138	1.151	1.083	1.207	8.29
6)		Aniline		1.609	1.513	1.499	1.365	1.316	1.298	1.218	1.402	9.99
7)	S	Phenol-d6		1.765	1.679	1.604	1.495	1.462	1.468	1.392	1.552	8.66
8)		2-Chlorophenol		1.441	1.385	1.311	1.214	1.187	1.182	1.121	1.263	9.38
9)		Benzaldehyde		1.159	1.137	1.085	0.949	0.839	0.823	0.701	0.956	18.46
10)	C	Phenol		1.863	1.779	1.752	1.593	1.575	1.544	1.434	1.649	9.23
11)		bis(2-Chloroet...		1.417	1.354	1.285	1.209	1.201	1.201	1.100	1.252	8.57
12)		1,3-Dichlorobe...		1.690	1.605	1.555	1.413	1.387	1.388	1.322	1.480	9.22
13)	C	1,4-Dichlorobe...		1.720	1.636	1.551	1.423	1.393	1.401	1.322	1.492	9.78
14)		1,2-Dichlorobe...		1.622	1.553	1.494	1.309	1.291	1.286	1.201	1.394	11.49
15)		Benzyl Alcohol		1.282	1.280	1.258	1.182	1.147	1.154	1.075	1.197	6.59
16)		2,2'-oxybis(1-...		2.305	2.213	2.143	1.958	1.910	1.898	1.764	2.027	9.65
17)		2-Methylphenol		1.155	1.105	1.086	1.028	1.005	1.022	0.973	1.053	6.05
18)		Hexachloroethane		0.612	0.603	0.576	0.533	0.524	0.537	0.507	0.556	7.37
19)	P	n-Nitroso-di-n...	1.035	1.117	1.062	1.015	0.949	0.923	0.936	0.886	0.990	8.01
20)		3+4-Methylphenols		1.503	1.446	1.403	1.277	1.240	1.242	1.150	1.323	9.73
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.564	0.535	0.512	0.474	0.461	0.472	0.453	0.496	8.43
23)	S	Nitrobenzene-d5		0.435	0.420	0.415	0.392	0.387	0.391	0.377	0.402	5.21
24)		Nitrobenzene		0.452	0.442	0.436	0.414	0.407	0.407	0.396	0.422	5.04
25)		Isophorone		0.754	0.722	0.699	0.675	0.659	0.680	0.660	0.693	5.05
26)	C	2-Nitrophenol		0.160	0.167	0.170	0.171	0.167	0.173	0.168	0.168	2.47
27)		2,4-Dimethylph...		0.240	0.237	0.234	0.224	0.221	0.227	0.216	0.228	3.88
28)		bis(2-Chloroet...		0.459	0.441	0.428	0.400	0.390	0.399	0.383	0.415	6.93
29)	C	2,4-Dichloroph...		0.297	0.299	0.291	0.278	0.270	0.277	0.266	0.283	4.67
30)		1,2,4-Trichlor...		0.373	0.362	0.349	0.328	0.318	0.327	0.314	0.339	6.72
31)		Naphthalene		1.206	1.119	1.071	0.992	0.956	0.965	0.921	1.033	9.94
32)		Benzoic acid			0.136	0.161	0.193	0.207	0.211	0.216	0.187	17.07
33)		4-Chloroaniline		0.372	0.367	0.354	0.330	0.322	0.323	0.311	0.340	7.13
34)	C	Hexachlorobuta...		0.251	0.241	0.238	0.222	0.218	0.223	0.212	0.229	6.22
35)		Caprolactam		0.090	0.087	0.088	0.085	0.084	0.086	0.082	0.086	2.94
36)	C	4-Chloro-3-met...		0.337	0.326	0.319	0.312	0.303	0.307	0.298	0.315	4.33
37)		2-Methylnaphth...		0.772	0.743	0.702	0.644	0.626	0.627	0.605	0.674	9.64
38)		1-Methylnaphth...		0.765	0.720	0.691	0.634	0.612	0.619	0.583	0.661	10.00

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.657	0.619	0.600	0.562	0.559	0.562	0.538	0.586	7.15
41)	P	Hexachlorocycl...	0.124	0.145	0.169	0.183	0.177	0.181	0.169	0.164	13.27
42)	S	2,4,6-Tribromo...	0.199	0.200	0.197	0.194	0.197	0.202	0.195	0.198	1.40
43)	C	2,4,6-Trichlor...	0.377	0.369	0.363	0.361	0.354	0.356	0.359	0.363	2.16
44)		2,4,5-Trichlor...	0.391	0.398	0.396	0.373	0.374	0.383	0.355	0.381	4.02
45)	S	2-Fluorobiphenyl	1.481	1.381	1.312	1.183	1.148	1.166	1.097	1.253	11.27
46)		1,1'-Biphenyl	1.663	1.590	1.521	1.376	1.342	1.347	1.281	1.446	10.02
47)		2-Chloronaphth...	1.195	1.171	1.135	1.050	1.036	1.040	0.990	1.088	7.17
48)		2-Nitroaniline	0.357	0.372	0.371	0.369	0.363	0.364	0.352	0.364	1.99
49)		Acenaphthylene	1.730	1.668	1.618	1.486	1.465	1.452	1.364	1.540	8.62
50)		Dimethylphthalate	1.363	1.310	1.262	1.191	1.182	1.180	1.135	1.232	6.65
51)		2,6-Dinitrotol...	0.302	0.297	0.299	0.286	0.286	0.284	0.272	0.290	3.57
52)	C	Acenaphthene	1.204	1.153	1.134	1.059	1.055	1.041	1.003	1.093	6.60
53)		3-Nitroaniline	0.294	0.286	0.282	0.269	0.267	0.262	0.248	0.273	5.83
54)	P	2,4-Dinitrophenol		0.071	0.101	0.128	0.135	0.139	0.142	0.120	23.23
55)		Dibenzofuran	1.773	1.683	1.603	1.467	1.424	1.421	1.324	1.528	10.59
56)	P	4-Nitrophenol	0.160	0.178	0.196	0.203	0.206	0.201	0.197	0.192	8.78
57)		2,4-Dinitrotol...	0.384	0.385	0.388	0.374	0.373	0.374	0.352	0.376	3.23
58)		Fluorene	1.446	1.345	1.267	1.154	1.127	1.115	1.059	1.216	11.55
59)		2,3,4,6-Tetrac...	0.323	0.324	0.321	0.305	0.309	0.308	0.298	0.313	3.26
60)		Diethylphthalate	1.360	1.319	1.271	1.185	1.170	1.165	1.097	1.224	7.72
61)		4-Chlorophenyl...	0.715	0.673	0.638	0.581	0.573	0.569	0.542	0.613	10.33
62)		4-Nitroaniline	0.278	0.276	0.282	0.270	0.267	0.270	0.254	0.271	3.45
63)		Azobenzene	1.460	1.373	1.319	1.219	1.200	1.190	1.122	1.269	9.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.080	0.100	0.110	0.112	0.116	0.113	0.105	12.60
66)	c	n-Nitrosodiphe...	0.646	0.608	0.600	0.551	0.543	0.549	0.530	0.575	7.48
67)		4-Bromophenyl-...	0.230	0.219	0.223	0.209	0.208	0.212	0.207	0.215	4.15
68)		Hexachlorobenzene	0.261	0.255	0.251	0.237	0.235	0.242	0.237	0.245	4.26
69)		Atrazine	0.204	0.189	0.155	0.156	0.127	0.138	0.133	0.157	18.48
70)	C	Pentachlorophenol	0.105	0.121	0.133	0.138	0.139	0.144	0.142	0.132	10.59
71)		Phenanthrene	1.082	1.044	1.004	0.915	0.885	0.902	0.849	0.954	9.28
72)		Anthracene	1.071	1.014	0.984	0.894	0.881	0.876	0.832	0.936	9.34
73)		Carbazole	0.973	0.919	0.901	0.822	0.805	0.809	0.759	0.855	8.93
74)		Di-n-butylphth...	1.119	1.096	1.062	0.975	0.961	0.966	0.907	1.012	7.87
75)	C	Fluoranthene	1.157	1.101	1.044	0.950	0.928	0.935	0.870	0.998	10.48
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.507	0.466	0.380	0.490	0.365	0.249	0.281	0.391	25.96
78)		Pyrene	1.851	1.733	1.728	1.590	1.572	1.596	1.490	1.651	7.49
79)	S	Terphenyl-d14	1.383	1.309	1.258	1.159	1.164	1.180	1.093	1.221	8.25
80)		Butylbenzylpht...	0.580	0.596	0.613	0.597	0.601	0.612	0.564	0.595	2.95
81)		Benzo(a)anthra...	1.386	1.344	1.345	1.232	1.232	1.254	1.193	1.284	5.71
82)		3,3'-Dichlorob...	0.387	0.409	0.410	0.417	0.406	0.401	0.392	0.403	2.57
83)		Chrysene	1.320	1.264	1.206	1.154	1.177	1.180	1.113	1.202	5.81
84)		Bis(2-ethylhex...	0.868	0.858	0.858	0.819	0.825	0.830	0.775	0.833	3.82
85)	c	Di-n-octyl pht...	1.201	1.234	1.283	1.267	1.265	1.291	1.240	1.254	2.52

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF110524.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.107	1.110	1.213	1.195	1.172	1.230	1.191	1.174	4.11
88)		Benzo(b)fluora...	1.300	1.184	1.214	1.245	1.125	1.286	1.115	1.210	6.05
89)		Benzo(k)fluora...	1.214	1.230	1.206	1.027	1.085	0.975	1.034	1.110	9.46
90)	C	Benzo(a)pyrene	1.023	0.999	1.022	0.993	0.975	1.006	0.964	0.997	2.23
91)		Dibenzo(a,h)an...	0.917	0.923	0.998	0.979	0.968	1.000	0.976	0.966	3.44
92)		Benzo(g,h,i)pe...	0.949	0.941	1.017	0.994	0.977	1.017	1.002	0.985	3.13

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 12 00:05:37 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140312.D 5 =BF140313.D 10 =BF140314.D 20 =BF140315.D 40 =BF140316.D 50 =BF140317.D 60 =BF140318.D 80 =BF1403
19.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.560	0.537	0.550	0.523	0.488	0.502	0.485	0.521	5.73
3)		Pyridine		1.273	1.308	1.323	1.287	1.193	1.232	1.166	1.255	4.71
4)		n-Nitrosodimet...		0.651	0.651	0.670	0.675	0.650	0.670	0.640	0.658	2.01
5)	S	2-Fluorophenol		1.319	1.246	1.213	1.131	1.070	1.100	1.025	1.158	9.07
6)		Aniline		1.553	1.509	1.462	1.363	1.259	1.250	1.104	1.357	11.94
7)	S	Phenol-d6		1.745	1.654	1.612	1.489	1.438	1.475	1.356	1.538	8.86
8)		2-Chlorophenol		1.387	1.308	1.312	1.190	1.164	1.164	1.078	1.229	8.83
9)		Benzaldehyde		1.108	1.054	1.020	0.839	0.776	0.718		0.919	17.65
10)	C	Phenol		1.847	1.770	1.710	1.594	1.511	1.556	1.433	1.632	9.12
11)		bis(2-Chloroet...		1.383	1.324	1.271	1.214	1.184	1.232	1.145	1.250	6.58
12)		1,3-Dichlorobe...		1.563	1.528	1.442	1.353	1.281	1.313	1.217	1.385	9.34
13)	C	1,4-Dichlorobe...		1.607	1.505	1.482	1.367	1.286	1.313	1.219	1.397	9.91
14)		1,2-Dichlorobe...		1.494	1.436	1.387	1.248	1.188	1.192	1.092	1.291	11.54
15)		Benzyl Alcohol		1.241	1.190	1.197	1.117	1.090	1.107	1.021	1.137	6.65
16)		2,2'-oxybis(1-...		1.911	1.806	1.777	1.677	1.631	1.654	1.523	1.711	7.53
17)		2-Methylphenol		1.132	1.040	1.034	0.993	0.957	0.983	0.919	1.009	6.83
18)		Hexachloroethane		0.586	0.553	0.537	0.522	0.496	0.501	0.470	0.523	7.42
19)	P	n-Nitroso-di-n...	1.050	1.029	0.972	0.962	0.896	0.865	0.885	0.836	0.937	8.34
20)		3+4-Methylphenols		1.525	1.401	1.341	1.213	1.146	1.157	1.062	1.263	12.99
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.532	0.508	0.494	0.445	0.433	0.435	0.406	0.465	9.99
23)	S	Nitrobenzene-d5		0.420	0.402	0.398	0.377	0.371	0.374	0.354	0.385	5.78
24)		Nitrobenzene		0.444	0.418	0.420	0.393	0.389	0.393	0.366	0.403	6.37
25)		Isophorone		0.715	0.693	0.686	0.653	0.649	0.668	0.634	0.671	4.24
26)	C	2-Nitrophenol		0.164	0.175	0.179	0.173	0.173	0.177	0.166	0.172	3.19
27)		2,4-Dimethylph...		0.236	0.235	0.230	0.220	0.219	0.225	0.213	0.225	3.91
28)		bis(2-Chloroet...		0.454	0.426	0.429	0.397	0.395	0.399	0.374	0.411	6.58
29)	C	2,4-Dichloroph...		0.302	0.290	0.289	0.272	0.269	0.266	0.249	0.277	6.48
30)		1,2,4-Trichlor...		0.349	0.337	0.325	0.305	0.294	0.298	0.278	0.312	8.21
31)		Naphthalene		1.156	1.087	1.053	0.965	0.935	0.946	0.876	1.002	9.84
32)		Benzoic acid		0.143	0.156	0.191	0.210	0.216	0.224	0.220	0.194	16.74
33)		4-Chloroaniline		0.387	0.370	0.362	0.337	0.327	0.331	0.313	0.347	7.64
34)	C	Hexachlorobuta...		0.230	0.215	0.212	0.195	0.190	0.189	0.176	0.201	9.29
35)		Caprolactam		0.093	0.089	0.093	0.089	0.089	0.090	0.086	0.090	2.87
36)	C	4-Chloro-3-met...		0.333	0.315	0.317	0.297	0.295	0.299	0.281	0.305	5.75
37)		2-Methylnaphth...		0.743	0.694	0.673	0.609	0.594	0.597	0.556	0.638	10.41
38)		1-Methylnaphth...		0.726	0.674	0.665	0.593	0.580	0.586	0.537	0.623	10.66

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111124.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.644	0.606	0.584	0.537	0.521	0.532	0.503	0.561	9.17
41)	P	Hexachlorocycl...		0.106	0.131	0.155	0.151	0.152	0.144	0.140	13.32
42)	S	2,4,6-Tribromo...	0.215	0.210	0.201	0.188	0.183	0.188	0.176	0.194	7.43
43)	C	2,4,6-Trichlor...	0.378	0.378	0.371	0.365	0.353	0.369	0.348	0.366	3.20
44)		2,4,5-Trichlor...	0.415	0.422	0.415	0.391	0.380	0.379	0.371	0.396	5.23
45)	S	2-Fluorobiphenyl	1.565	1.457	1.350	1.182	1.120	1.132	1.063	1.267	15.12
46)		1,1'-Biphenyl	1.722	1.606	1.550	1.399	1.353	1.356	1.279	1.467	11.02
47)		2-Chloronaphth...	1.291	1.217	1.163	1.082	1.051	1.048	1.003	1.122	9.30
48)		2-Nitroaniline	0.373	0.379	0.379	0.369	0.370	0.369	0.363	0.372	1.62
49)		Acenaphthylene	1.954	1.851	1.766	1.619	1.565	1.575	1.474	1.686	10.33
50)		Dimethylphthalate	1.449	1.380	1.343	1.244	1.227	1.250	1.198	1.299	7.17
51)		2,6-Dinitrotol...	0.306	0.301	0.299	0.288	0.283	0.290	0.278	0.292	3.44
52)	C	Acenaphthene	1.273	1.226	1.192	1.104	1.076	1.084	1.041	1.142	7.68
53)		3-Nitroaniline	0.319	0.331	0.321	0.306	0.299	0.304	0.284	0.309	5.06
54)	P	2,4-Dinitrophenol		0.099	0.129	0.160	0.161	0.171	0.167	0.148	19.09
55)		Dibenzofuran	1.876	1.766	1.692	1.535	1.460	1.469	1.364	1.595	11.69
56)	P	4-Nitrophenol	0.194	0.208	0.229	0.230	0.223	0.238	0.223	0.221	6.77
57)		2,4-Dinitrotol...	0.397	0.403	0.404	0.385	0.373	0.379	0.354	0.385	4.74
58)		Fluorene	1.484	1.405	1.323	1.191	1.140	1.151	1.075	1.253	12.21
59)		2,3,4,6-Tetrac...	0.344	0.335	0.327	0.309	0.295	0.306	0.291	0.315	6.42
60)		Diethylphthalate	1.511	1.431	1.378	1.274	1.236	1.253	1.176	1.323	9.07
61)		4-Chlorophenyl...	0.735	0.707	0.667	0.591	0.565	0.571	0.528	0.624	12.69
62)		4-Nitroaniline	0.319	0.327	0.318	0.307	0.297	0.306	0.293	0.309	4.05
63)		Azobenzene	1.497	1.418	1.374	1.268	1.238	1.256	1.194	1.321	8.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.074	0.092	0.107	0.113	0.114	0.118	0.114	0.105	15.49
66)	c	n-Nitrosodiphe...	0.649	0.630	0.606	0.560	0.552	0.558	0.528	0.583	7.74
67)		4-Bromophenyl-...	0.221	0.211	0.208	0.195	0.191	0.191	0.186	0.200	6.51
68)		Hexachlorobenzene	0.252	0.234	0.232	0.218	0.214	0.215	0.205	0.224	7.10
69)		Atrazine	0.202	0.182	0.142	0.148	0.110	0.119	0.113	0.145	24.42
70)	C	Pentachlorophenol	0.110	0.120	0.128	0.133	0.128	0.132	0.127	0.126	6.53
71)		Phenanthrene	1.106	1.042	0.988	0.894	0.866	0.872	0.810	0.940	11.44
72)		Anthracene	1.061	1.005	0.971	0.885	0.848	0.855	0.807	0.919	10.25
73)		Carbazole	1.034	0.992	0.952	0.870	0.826	0.835	0.790	0.900	10.34
74)		Di-n-butylphth...	1.240	1.185	1.140	1.037	0.985	1.011	0.939	1.077	10.41
75)	C	Fluoranthene	1.236	1.169	1.125	0.966	0.922	0.935	0.850	1.029	14.18
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.569	0.563	0.327	0.880	0.685	0.927	0.955	0.701	33.18
78)		Pyrene	1.887	1.797	1.799	1.748	1.745	1.712	1.637	1.761	4.44
79)	S	Terphenyl-d14	1.319	1.251	1.191	1.133	1.105	1.109	1.056	1.166	7.92
80)		Butylbenzylpht...	0.688	0.679	0.686	0.670	0.658	0.671	0.639	0.670	2.55
81)		Benzo(a)anthra...	1.452	1.353	1.381	1.267	1.250	1.247	1.216	1.309	6.62
82)		3,3'-Dichlorob...	0.426	0.419	0.421	0.415	0.413	0.428	0.414	0.419	1.42
83)		Chrysene	1.315	1.294	1.207	1.167	1.149	1.151	1.105	1.198	6.58
84)		Bis(2-ethylhex...	0.966	0.935	0.911	0.870	0.857	0.875	0.829	0.892	5.35
85)	c	Di-n-octyl pht...	1.436	1.331	1.338	1.260	1.254	1.297	1.266	1.312	4.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111124.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.135	1.165	1.215	1.285	1.278	1.287	1.267	1.233	5.07
88)		Benzo(b)fluora...	1.437	1.271	1.240	1.250	1.117	1.275	1.221	1.259	7.55
89)		Benzo(k)fluora...	1.245	1.082	1.201	1.012	1.062	0.934	0.873	1.058	12.66
90)	C	Benzo(a)pyrene	1.108	1.045	1.040	1.003	0.972	0.997	0.950	1.017	5.20
91)		Dibenzo(a,h)an...	0.946	0.972	1.010	1.055	1.043	1.040	1.028	1.013	3.97
92)		Benzo(g,h,i)pe...	0.971	0.970	1.024	1.093	1.096	1.093	1.075	1.046	5.46

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_E Calibration Date/Time: 11/08/2024 10:07

Lab File ID: BE101544.D Init. Calib. Date(s): 11/06/2024 11/06/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:51 18:02

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.177	1.299		10.4	
2-Fluorophenol	1.131	1.156		2.2	
Phenol-d6	1.551	1.606		3.5	
1,4-Dichlorobenzene	1.482	1.484		0.1	20.0
2-Methylphenol	1.093	1.113		1.8	
3+4-Methylphenols	1.515	1.581		4.4	
Nitrobenzene-d5	0.317	0.329		3.8	
Hexachloroethane	0.500	0.497		-0.6	
Nitrobenzene	0.329	0.344		4.6	
Hexachlorobutadiene	0.198	0.190		-4.0	20.0
2,4,6-Trichlorophenol	0.362	0.358		-1.1	20.0
2-Fluorobiphenyl	1.225	1.192		-2.7	
2,4,5-Trichlorophenol	0.403	0.404		0.2	
2,4-Dinitrotoluene	0.462	0.497		7.6	
2,4,6-Tribromophenol	0.376	0.380		1.1	
Hexachlorobenzene	0.290	0.292		0.7	
Pentachlorophenol	0.158	0.168		6.3	20.0
Terphenyl-d14	0.904	0.945		4.5	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG No.: P4718

Instrument ID: BNA_F Calibration Date/Time: 11/08/2024 09:35

Lab File ID: BF140286.D Init. Calib. Date(s): 11/05/2024 11/05/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 15:30

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.354	1.280		-5.5	
2-Fluorophenol	1.207	1.151		-4.6	
Phenol-d6	1.552	1.455		-6.3	
1,4-Dichlorobenzene	1.492	1.440		-3.5	20.0
2-Methylphenol	1.053	1.025		-2.7	
3+4-Methylphenols	1.323	1.267		-4.2	
Nitrobenzene-d5	0.402	0.378		-6.0	
Hexachloroethane	0.556	0.530		-4.7	
Nitrobenzene	0.422	0.398		-5.7	
Hexachlorobutadiene	0.229	0.225		-1.7	20.0
2,4,6-Trichlorophenol	0.363	0.362		-0.3	20.0
2-Fluorobiphenyl	1.253	1.125		-10.1	
2,4,5-Trichlorophenol	0.381	0.388		1.8	
2,4-Dinitrotoluene	0.376	0.395		5.1	
2,4,6-Tribromophenol	0.198	0.223		12.6	
Hexachlorobenzene	0.245	0.245		0.0	
Pentachlorophenol	0.132	0.154		16.7	20.0
Terphenyl-d14	1.221	1.161		-4.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111124\
Data File : BF140330.D
Acq On : 11 Nov 2024 21:03
Operator : RC/JU
Sample : P4718-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Time: Nov 12 00:46:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 12 00:05:37 2024
Response via : Initial Calibration

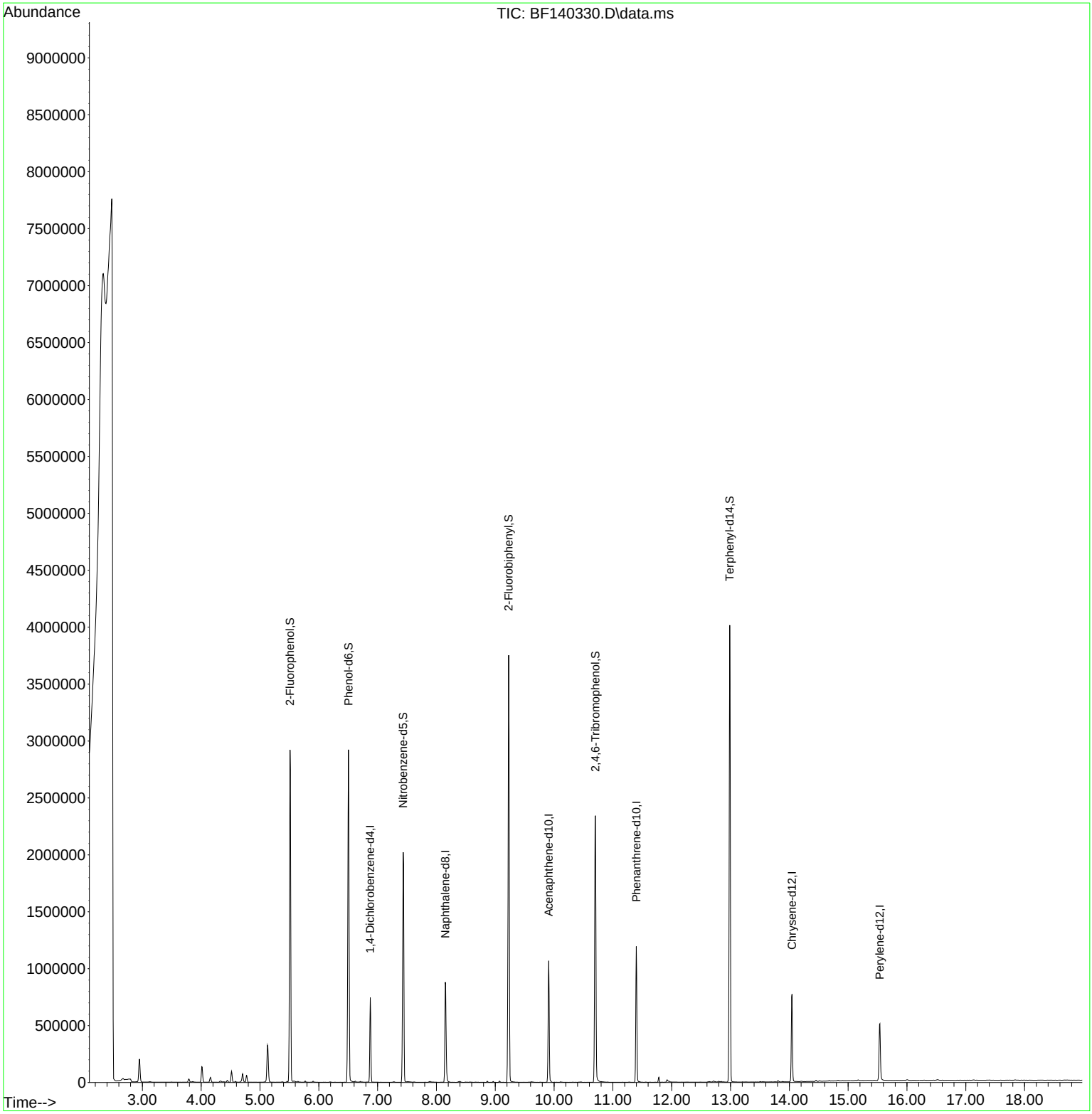
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	152118	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	583727	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	327078	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	621899	20.000	ng	0.00
76) Chrysene-d12	14.045	240	380235	20.000	ng	-0.01
86) Perylene-d12	15.539	264	303804	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1146387	130.200	ng	0.02
7) Phenol-d6	6.504	99	1476290	126.182	ng	0.00
23) Nitrobenzene-d5	7.434	82	983211	87.441	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	436628	137.407	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1733925	83.696	ng	0.00
79) Terphenyl-d14	12.986	244	2001946	90.281	ng	0.00
Target Compounds						Qvalue

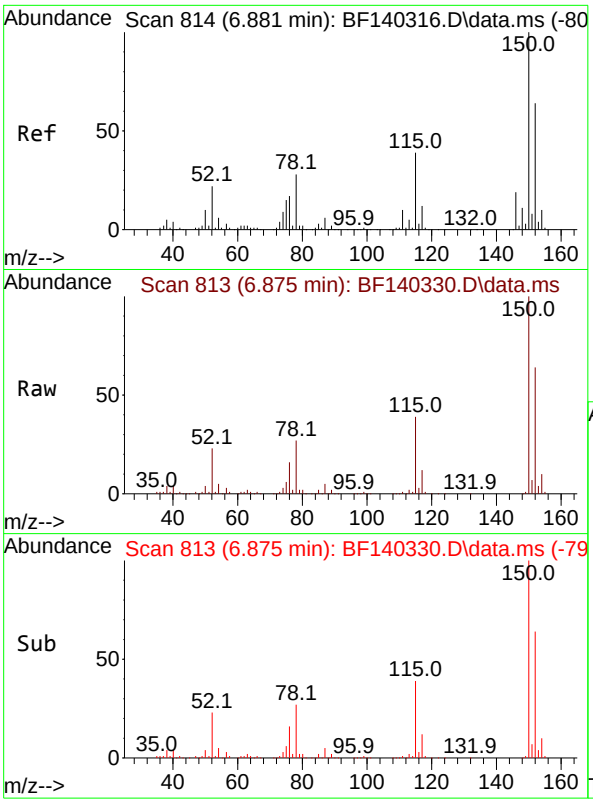
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111124\
Data File : BF140330.D
Acq On : 11 Nov 2024 21:03
Operator : RC/JU
Sample : P4718-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Quant Time: Nov 12 00:46:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 12 00:05:37 2024
Response via : Initial Calibration



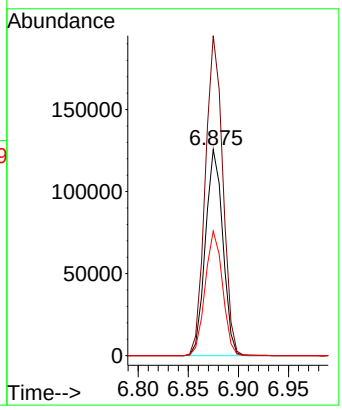


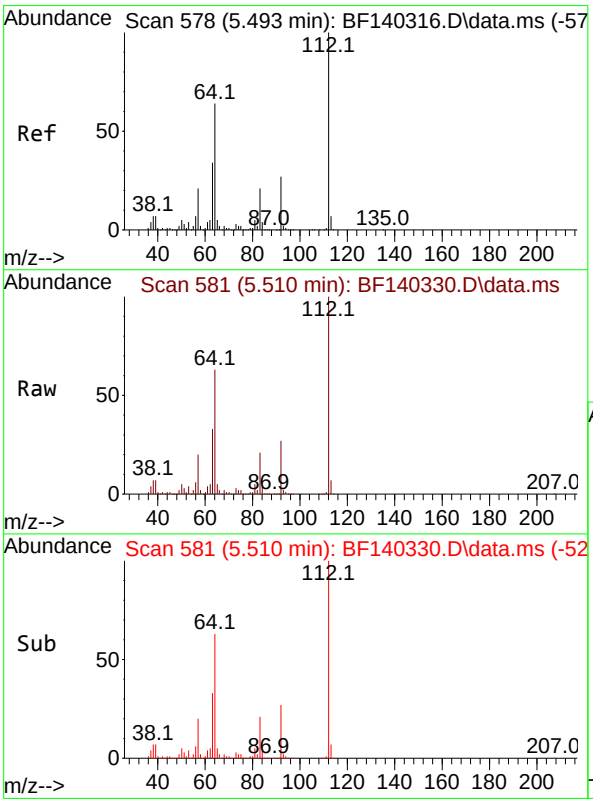
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:152 Resp: 152118

Ion	Ratio	Lower	Upper
152	100		
150	155.2	127.1	190.7
115	60.5	49.4	74.0

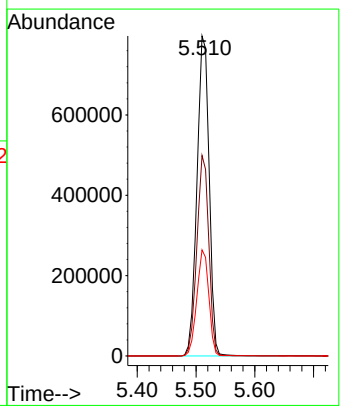


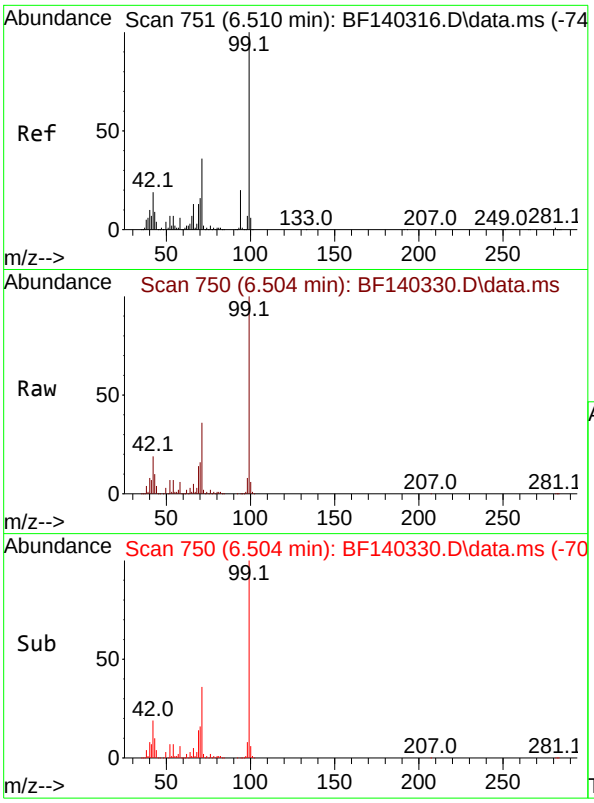


#5
2-Fluorophenol
Concen: 130.200 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.018 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Tgt Ion:112 Resp: 1146387

Ion	Ratio	Lower	Upper
112	100		
64	62.7	51.0	76.6
63	33.1	26.9	40.3



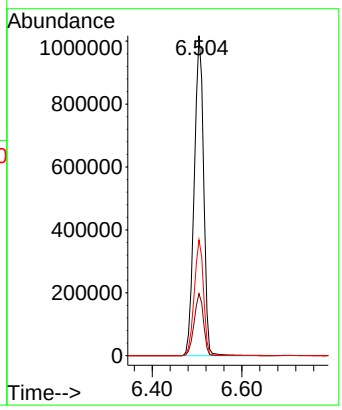


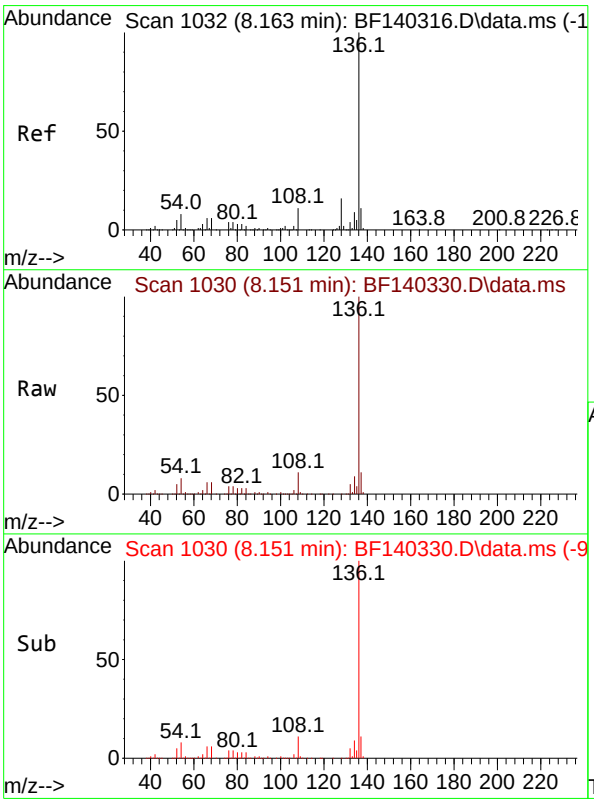
#7
Phenol-d6
Concen: 126.182 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion: 99 Resp: 1476290

Ion	Ratio	Lower	Upper
99	100		
42	19.4	15.5	23.3
71	36.2	28.8	43.2

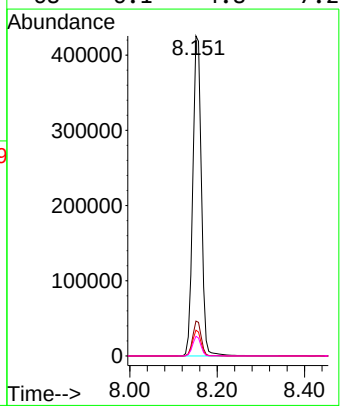


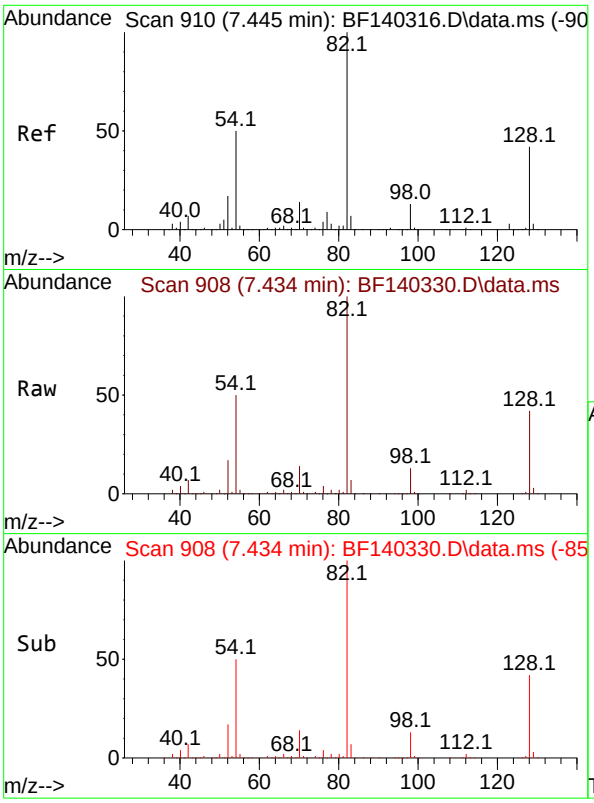


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Tgt Ion:136 Resp: 583727

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	8.1	6.2	9.2
68	6.1	4.8	7.2



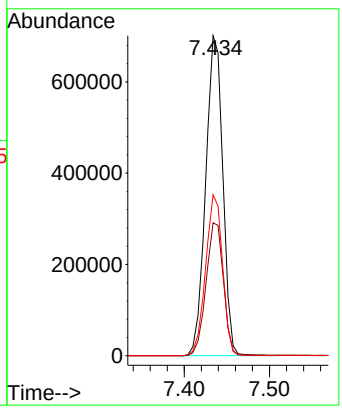


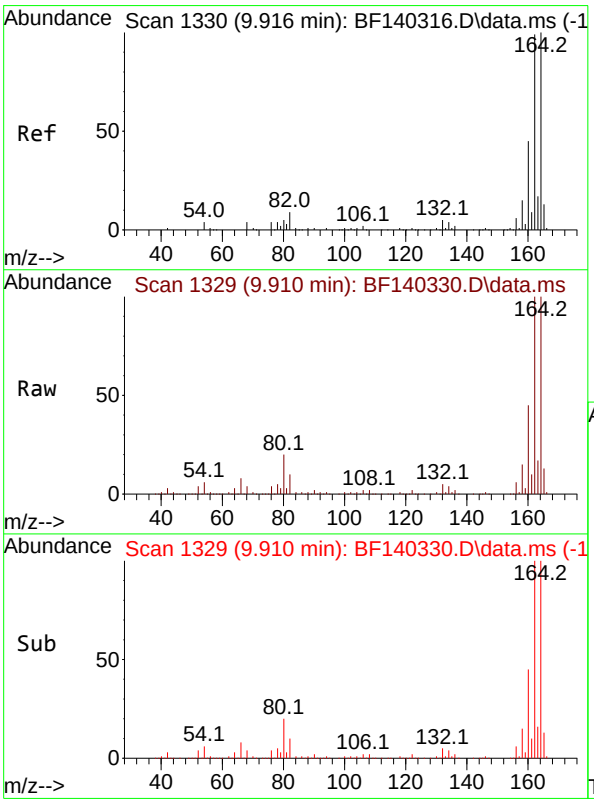
#23
Nitrobenzene-d5
Concen: 87.441 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion: 82 Resp: 983211

Ion	Ratio	Lower	Upper
82	100		
128	41.6	33.8	50.6
54	50.3	40.0	60.0

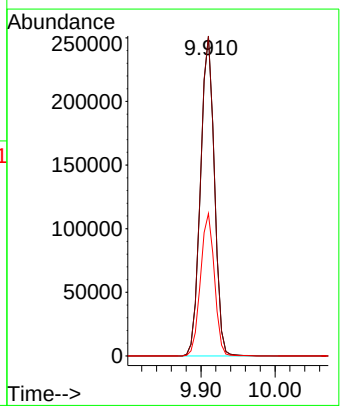


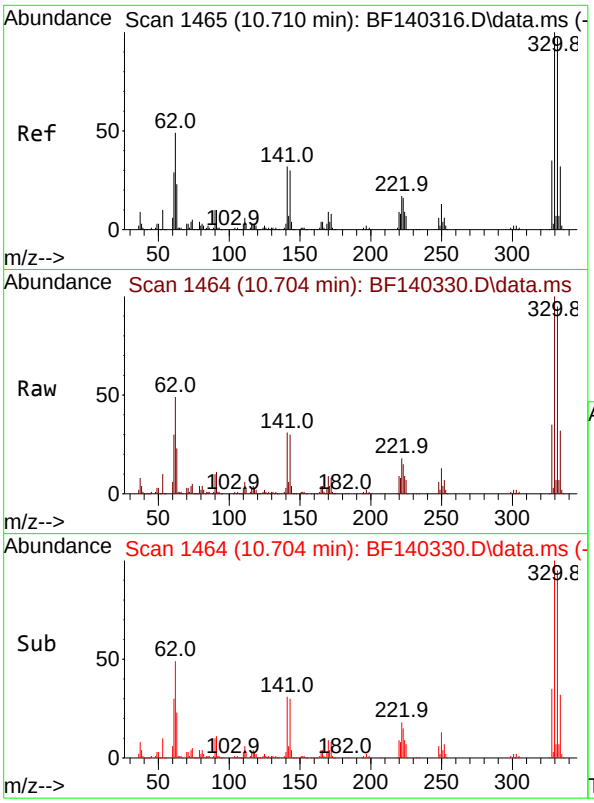


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Tgt Ion:164 Resp: 327078

Ion	Ratio	Lower	Upper
164	100		
162	100.2	79.4	119.0
160	44.6	35.6	53.4



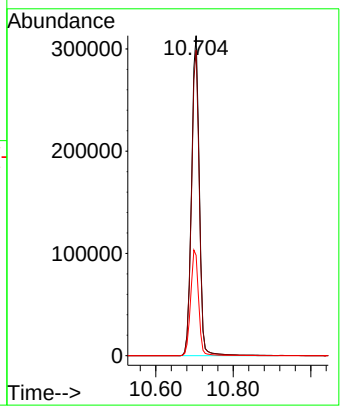


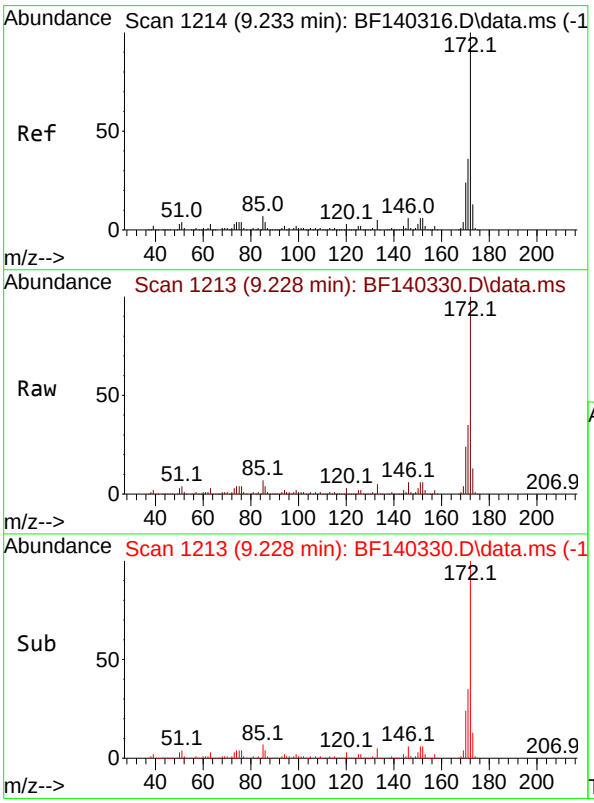
#42
2,4,6-Tribromophenol
Concen: 137.407 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:330 Resp: 436628

Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.1	115.7
141	33.7	28.3	42.5

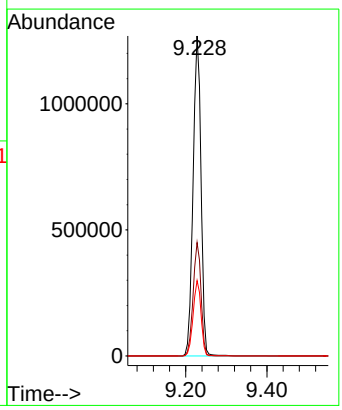


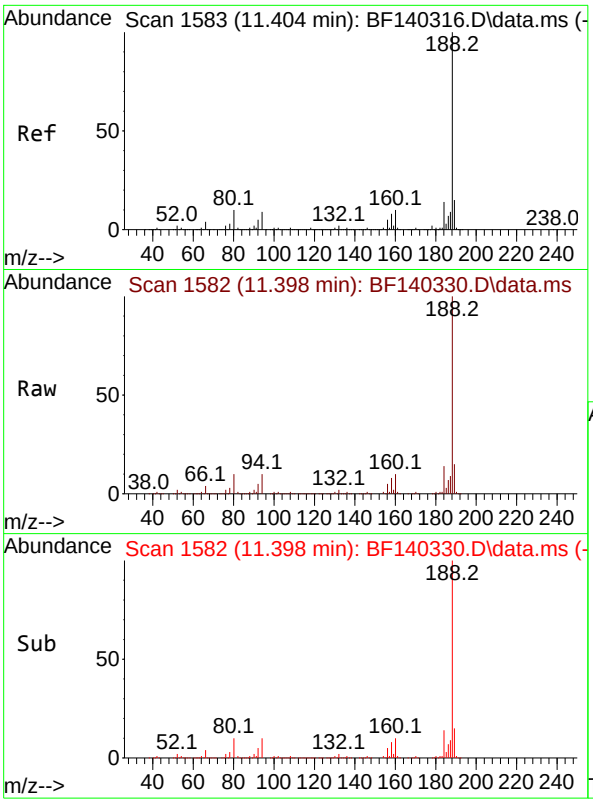


#45
2-Fluorobiphenyl
Concen: 83.696 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Tgt Ion:172 Resp: 1733925

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.7	43.1
170	23.6	19.3	28.9



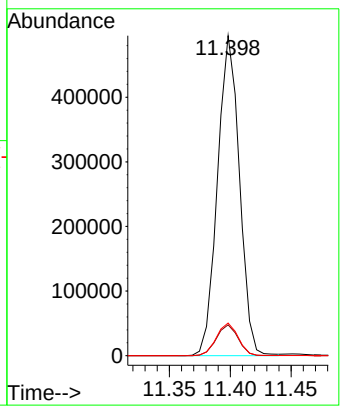


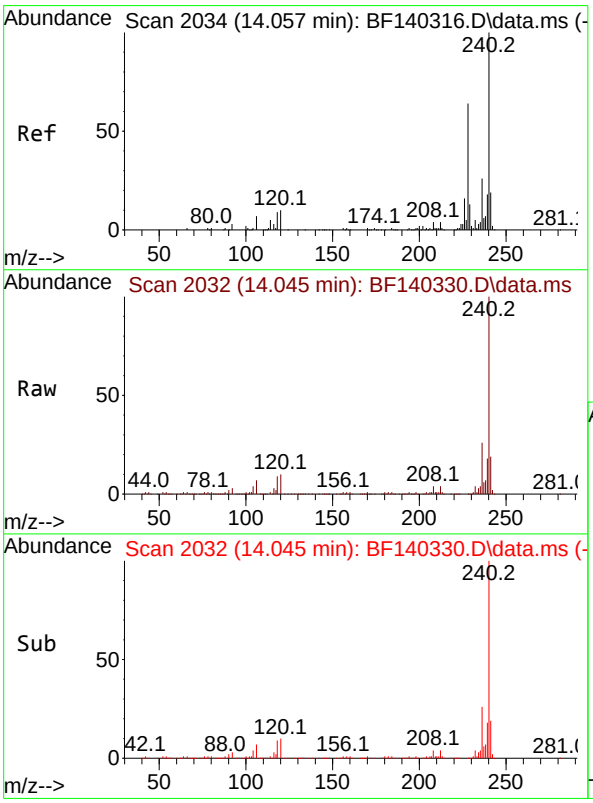
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:188 Resp: 621899

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.4	11.2
80	10.2	8.0	12.0

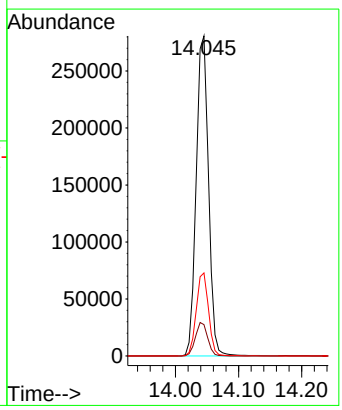


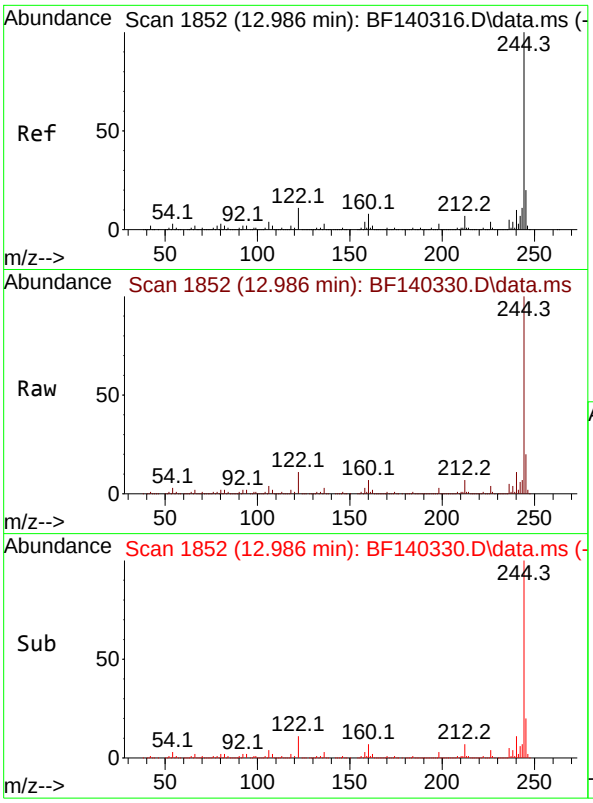


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.012 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Tgt Ion:240 Resp: 380235

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.2	12.4
236	25.9	20.9	31.3



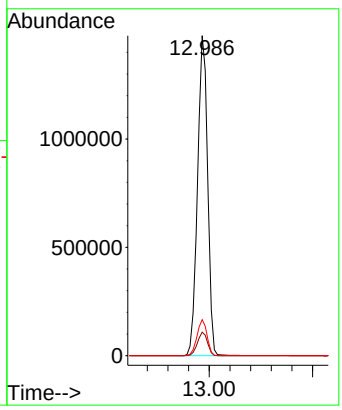


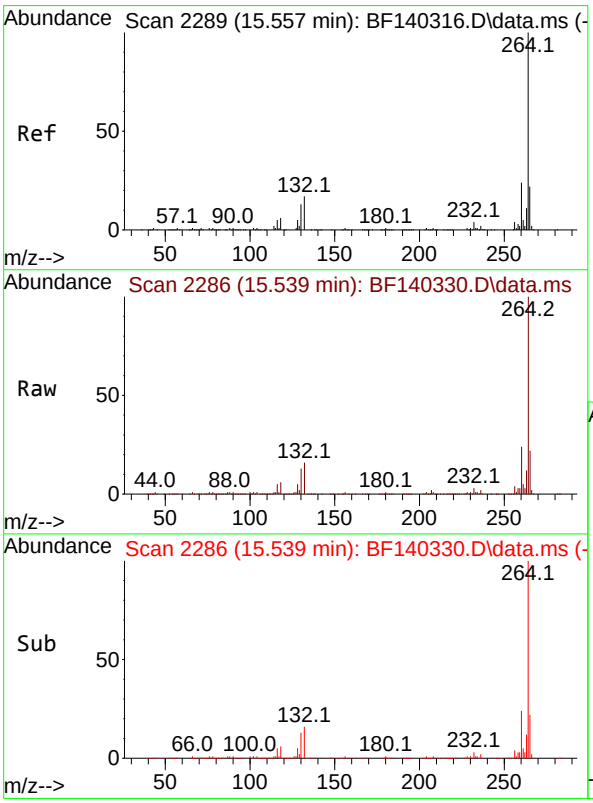
#79
Terphenyl-d14
Concen: 90.281 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Instrument :
BNA_F
ClientSampleId :
WB-307-SB02

Tgt Ion:244 Resp: 2001946

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	11.3	9.0	13.4

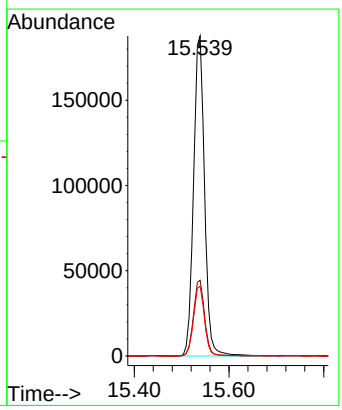




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.018 min
Lab File: BF140330.D
Acq: 11 Nov 2024 21:03

Tgt Ion:264 Resp: 303804

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.6	29.4
265	21.7	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101547.D
Acq On : 8 Nov 2024 12:03
Operator : RC/JU
Sample : PB164694TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Quant Time: Nov 08 11:53:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

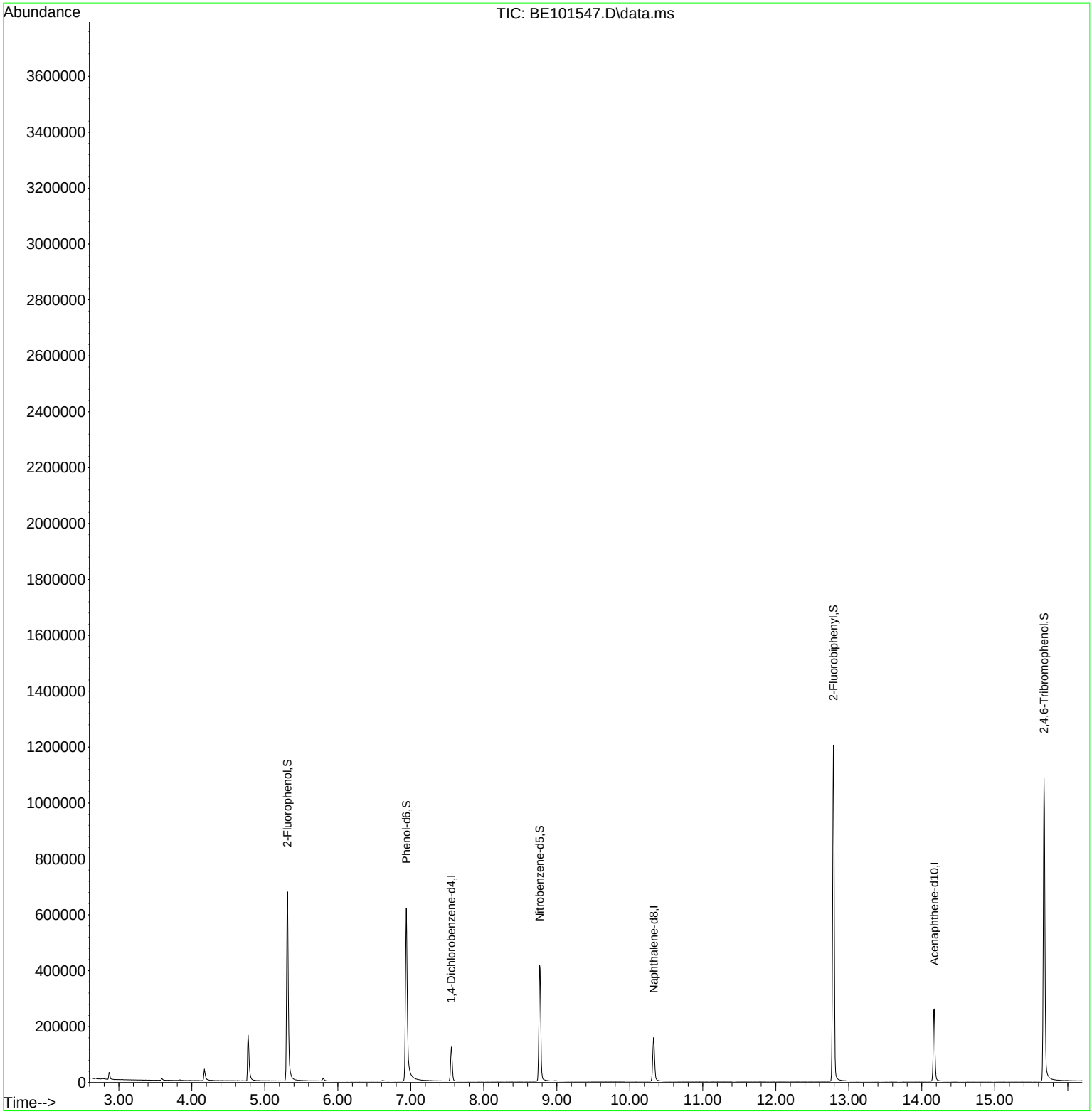
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.555	152	34932	20.000	ng	0.00
21) Naphthalene-d8	10.329	136	149600	20.000	ng	0.00
39) Acenaphthene-d10	14.171	164	99908	20.000	ng	0.00
64) Phenanthrene-d10	16.909	188	241198	20.000	ng	0.00
76) Chrysene-d12	21.069	240	324971	20.000	ng	0.00
86) Perylene-d12	23.349	264	414995	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.311	112	349576	176.947	ng	0.00
7) Phenol-d6	6.938	99	450678	166.382	ng	0.00
23) Nitrobenzene-d5	8.766	82	261263	110.312	ng	0.00
42) 2,4,6-Tribromophenol	15.675	330	294216	156.501	ng	0.00
45) 2-Fluorobiphenyl	12.790	172	671226	109.699	ng	0.00
79) Terphenyl-d14	19.500	244	1639777	111.695	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101547.D
Acq On : 8 Nov 2024 12:03
Operator : RC/JU
Sample : PB164694TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164694TB

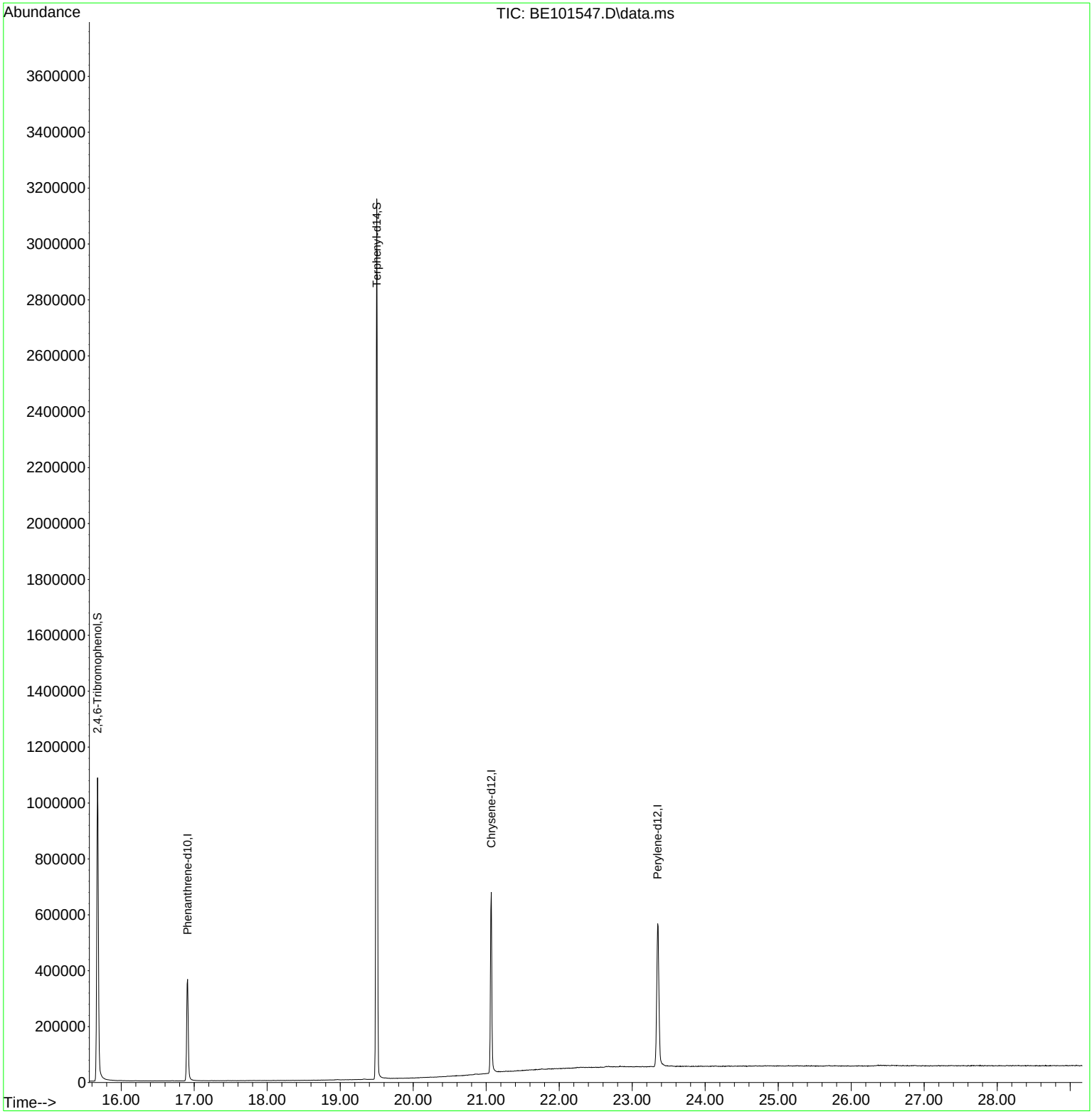
Quant Time: Nov 08 11:53:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

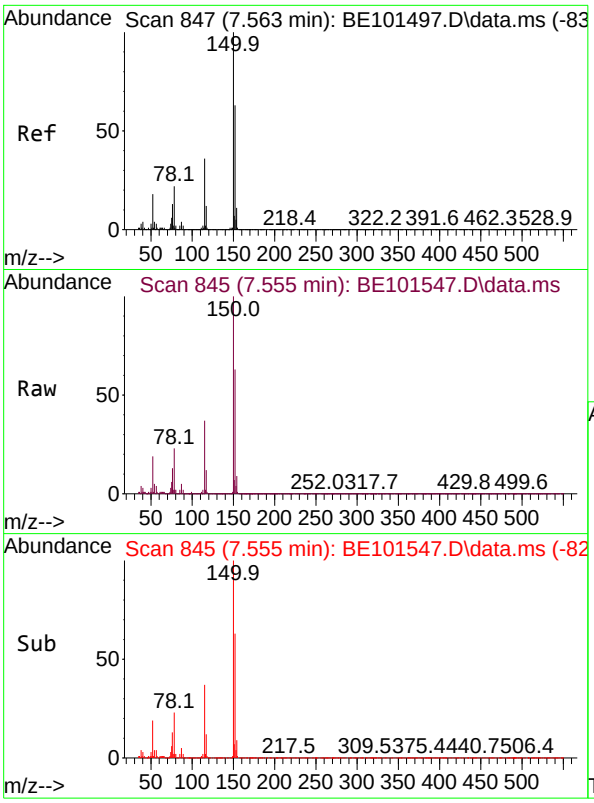


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101547.D
Acq On : 8 Nov 2024 12:03
Operator : RC/JU
Sample : PB164694TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Quant Time: Nov 08 11:53:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration



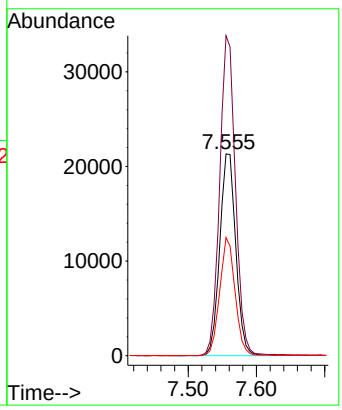


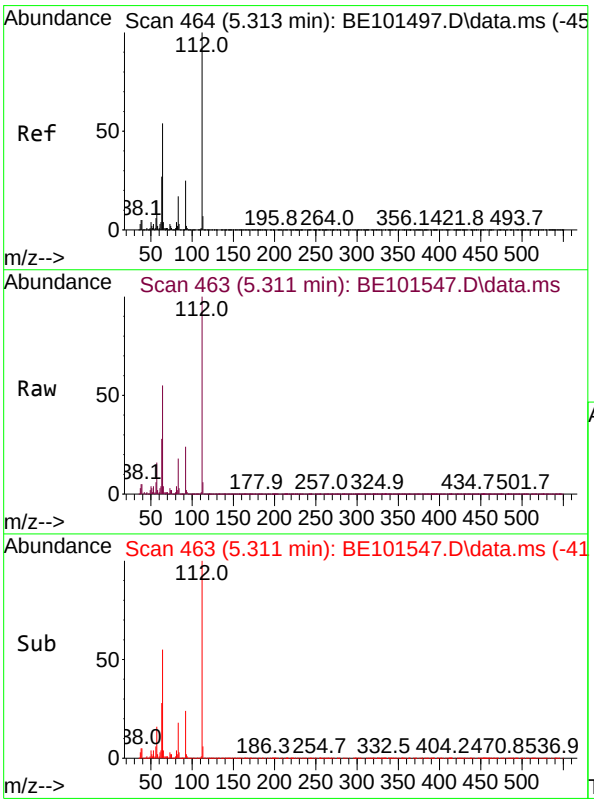
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.555 min Scan# 84
Delta R.T. -0.008 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Tgt Ion:152 Resp: 34932

Ion	Ratio	Lower	Upper
152	100		
150	158.6	126.3	189.5
115	58.5	45.0	67.4

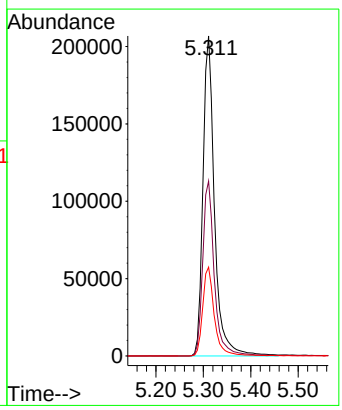


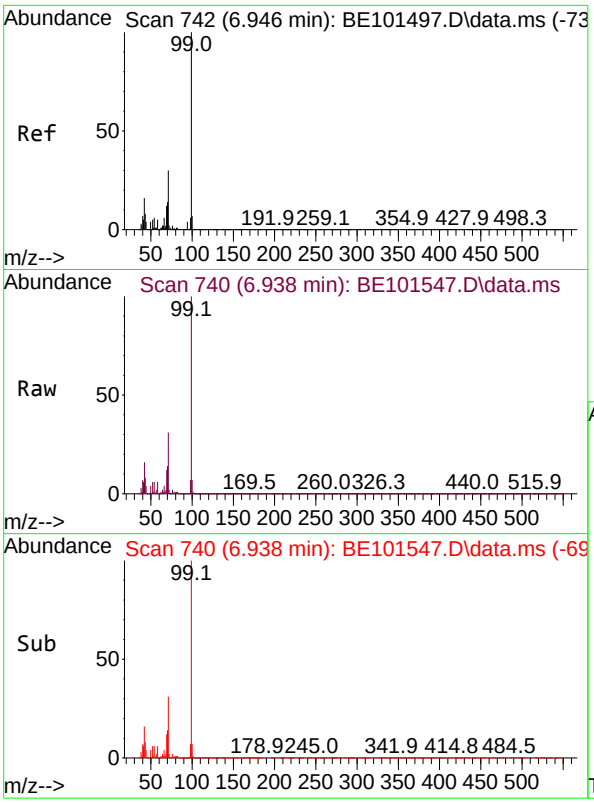


#5
2-Fluorophenol
Concen: 176.947 ng
RT: 5.311 min Scan# 463
Delta R.T. -0.002 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Tgt Ion:112 Resp: 349576

Ion	Ratio	Lower	Upper
112	100		
64	54.7	43.2	64.8
63	27.8	21.8	32.6



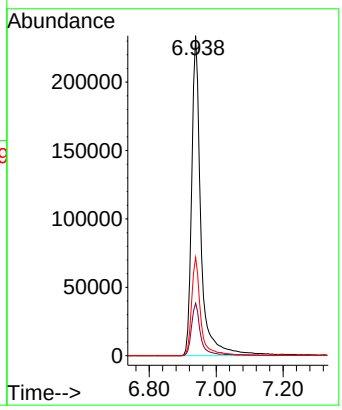


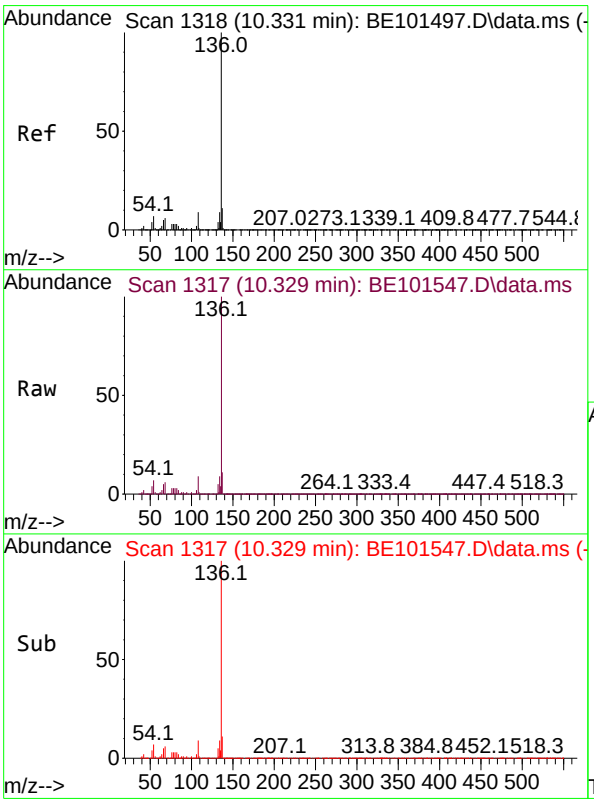
#7
Phenol-d6
Concen: 166.382 ng
RT: 6.938 min Scan# 7
Delta R.T. -0.008 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Tgt Ion: 99 Resp: 450678

Ion	Ratio	Lower	Upper
99	100		
42	16.4	12.5	18.7
71	30.7	24.2	36.2

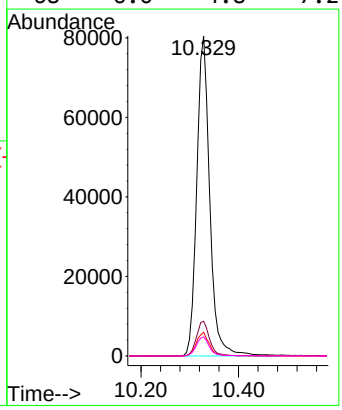


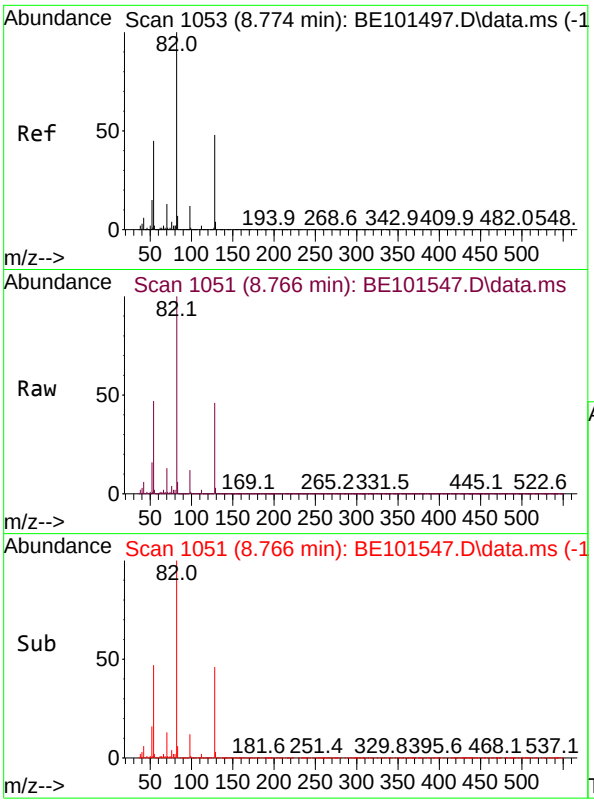


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.329 min Scan# 1317
Delta R.T. -0.002 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Tgt Ion:136 Resp: 149600

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	7.4	5.6	8.4
68	6.0	4.8	7.2



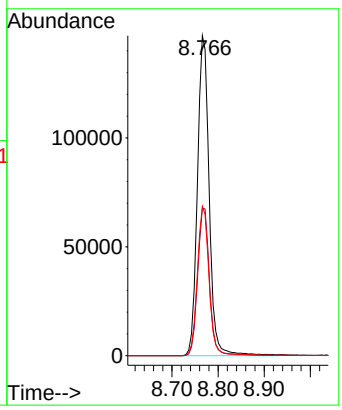


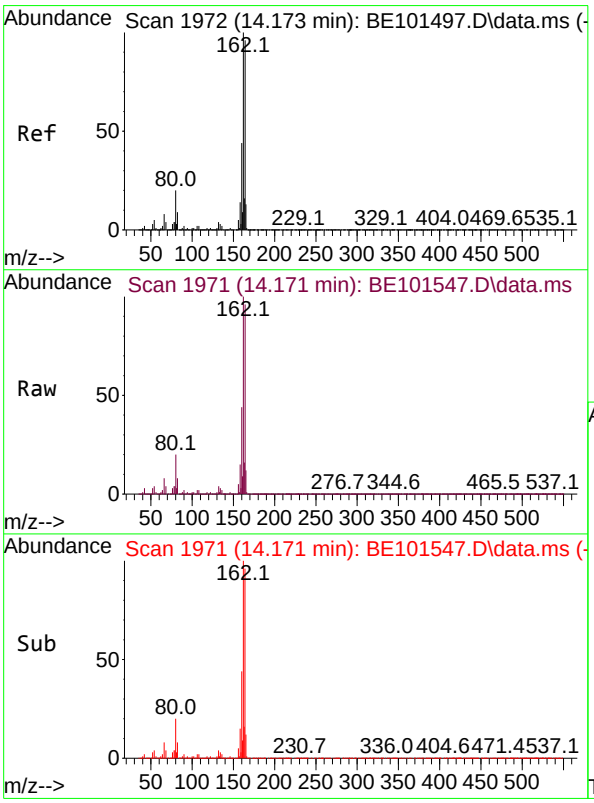
#23
Nitrobenzene-d5
Concen: 110.312 ng
RT: 8.766 min Scan# 1
Delta R.T. -0.008 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Tgt Ion: 82 Resp: 261263

Ion	Ratio	Lower	Upper
82	100		
128	46.0	38.6	58.0
54	46.7	36.3	54.5

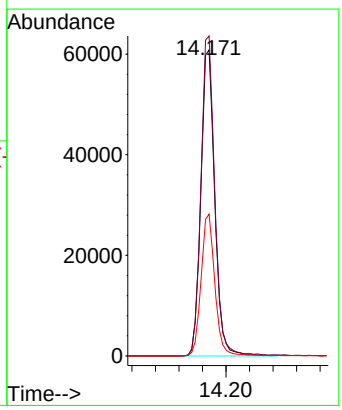


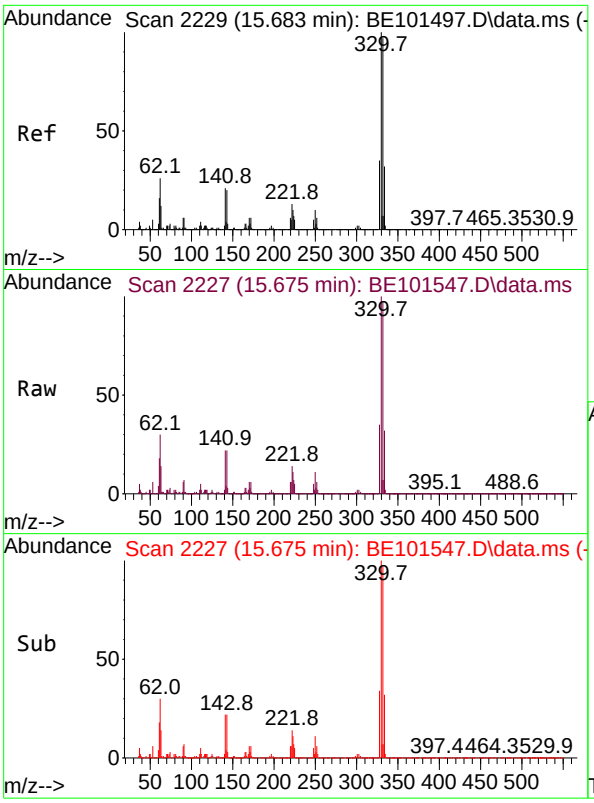


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.171 min Scan# 1971
Delta R.T. -0.002 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Tgt Ion:164 Resp: 99908

Ion	Ratio	Lower	Upper
164	100		
162	104.5	83.7	125.5
160	46.4	37.1	55.7



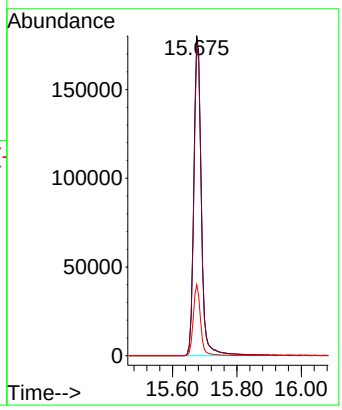


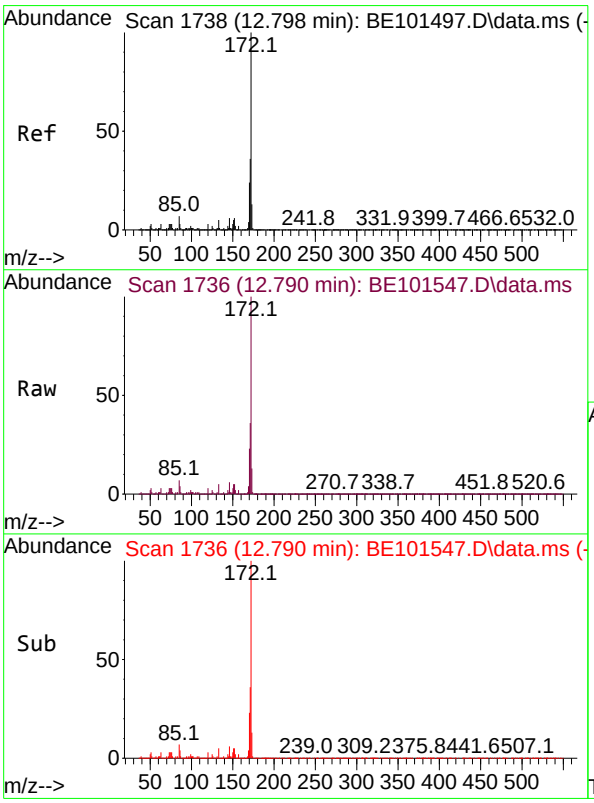
#42
2,4,6-Tribromophenol
Concen: 156.501 ng
RT: 15.675 min Scan# 2
Delta R.T. -0.008 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Tgt Ion:330 Resp: 294216

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.7	116.5
141	21.6	17.0	25.4

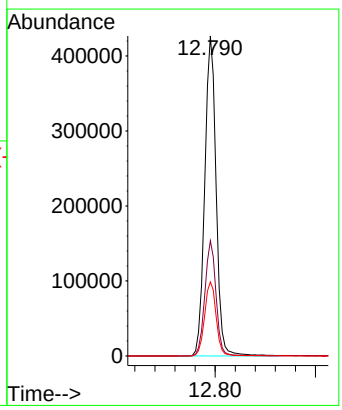


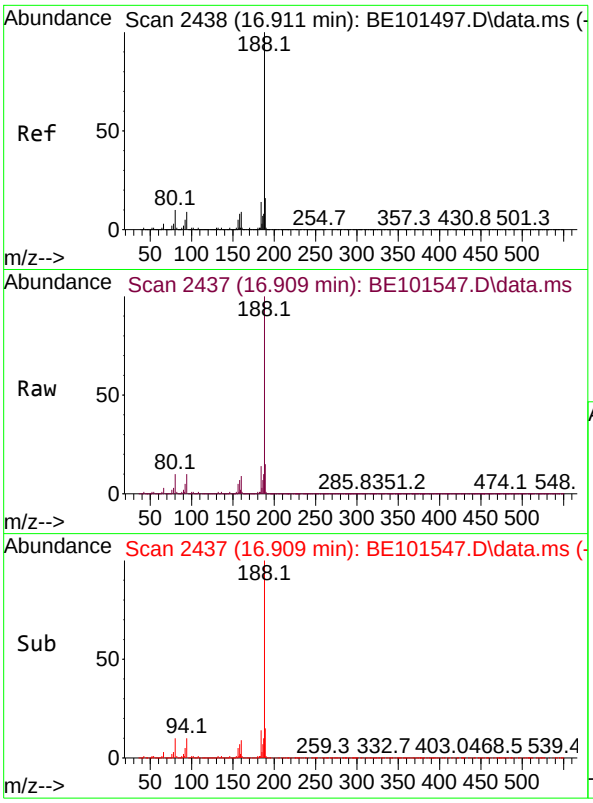


#45
2-Fluorobiphenyl
Concen: 109.699 ng
RT: 12.790 min Scan# 1736
Delta R.T. -0.008 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Tgt Ion:172 Resp: 671226

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	23.2	18.9	28.3



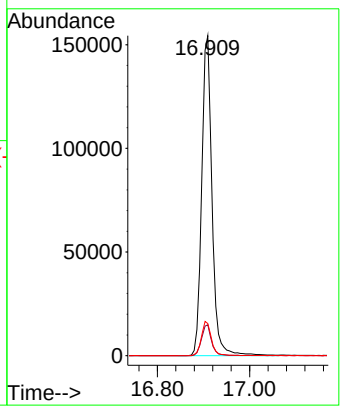


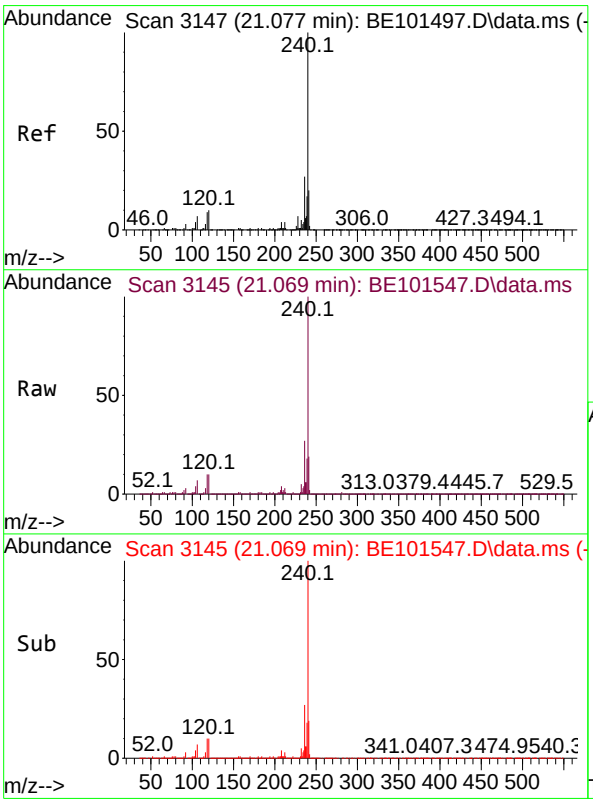
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.909 min Scan# 24
Delta R.T. -0.002 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Tgt Ion:188 Resp: 241198

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.2
80	10.1	8.0	12.0

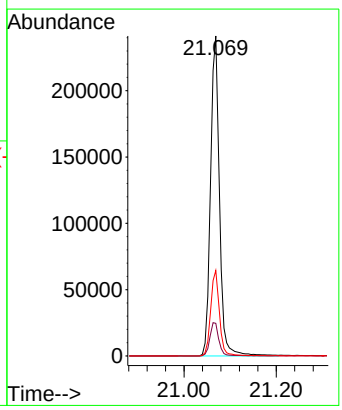


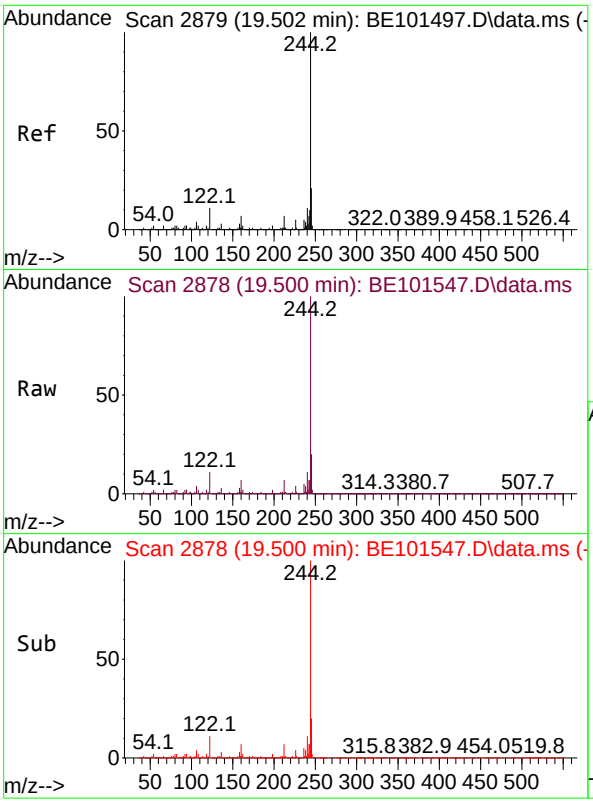


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.069 min Scan# 3145
Delta R.T. -0.008 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Tgt Ion:240 Resp: 324971

Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.2	12.4
236	26.7	21.4	32.2



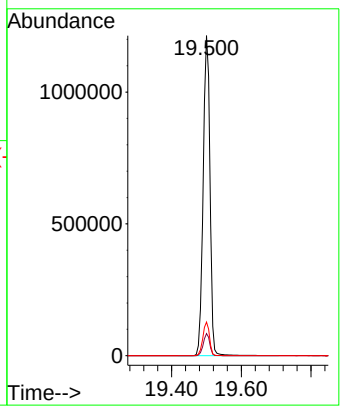


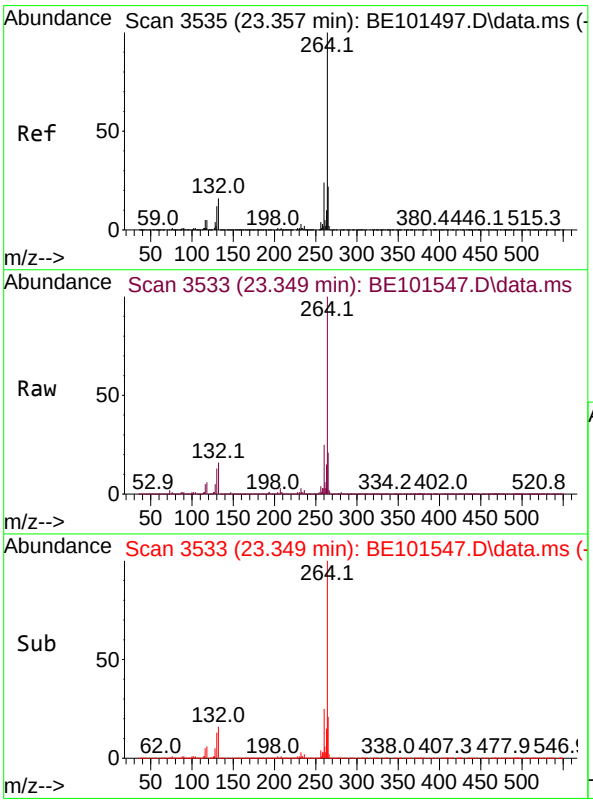
#79
Terphenyl-d14
Concen: 111.695 ng
RT: 19.500 min Scan# 2
Delta R.T. -0.002 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Instrument :
BNA_E
ClientSampleId :
PB164694TB

Tgt Ion:244 Resp: 1639777

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.8
122	10.5	8.4	12.6

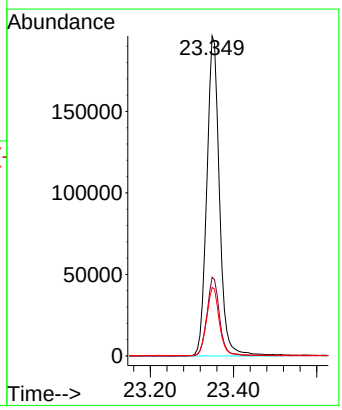




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.349 min Scan# 3533
Delta R.T. -0.008 min
Lab File: BE101547.D
Acq: 8 Nov 2024 12:03

Tgt Ion:264 Resp: 414995

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.4	29.2
265	21.4	17.4	26.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110824\
Data File : BF140287.D
Acq On : 08 Nov 2024 10:02
Operator : RC/JU
Sample : PB164765BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Quant Time: Nov 08 10:32:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration

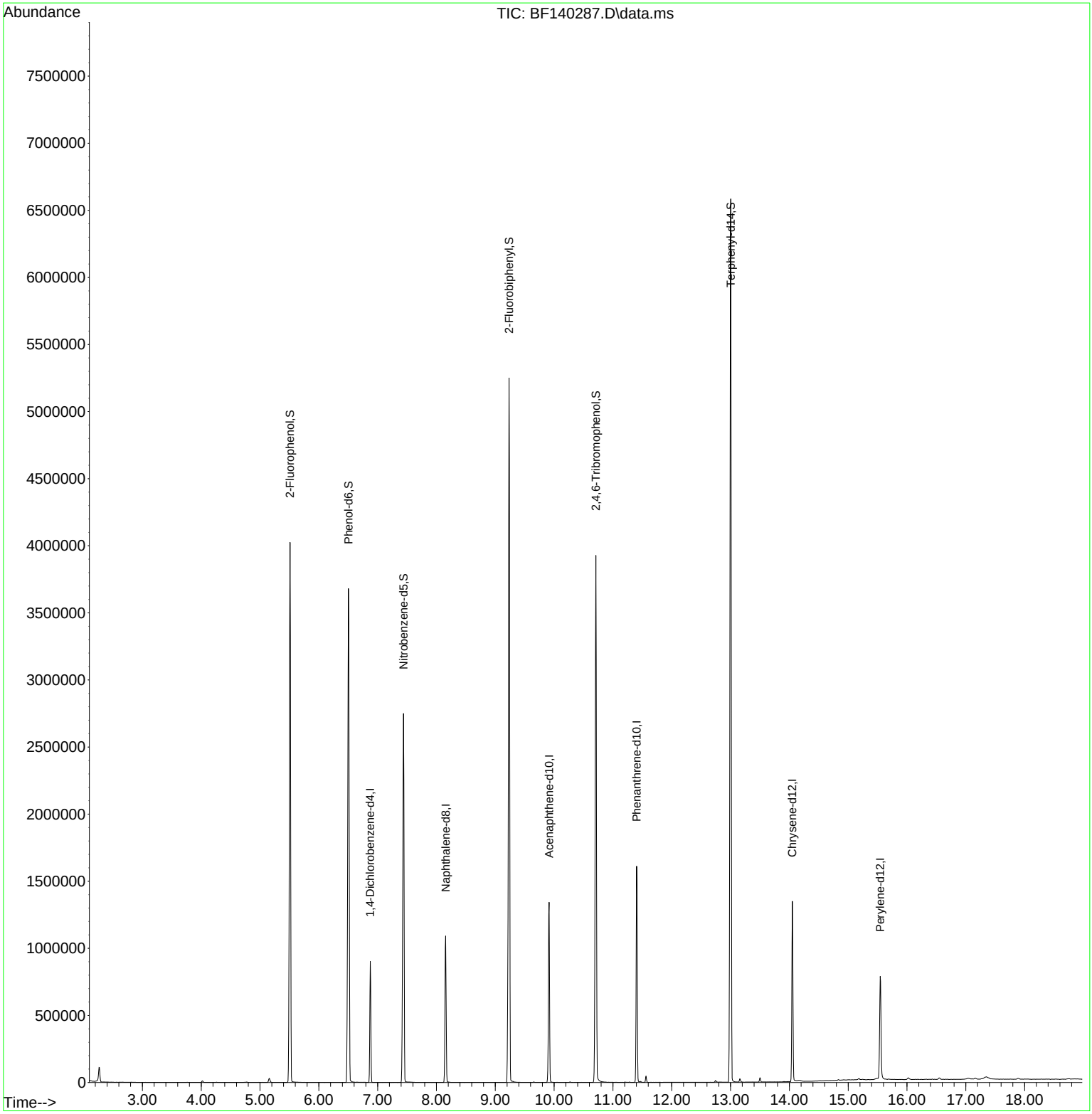
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	180593	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	699300	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	441390	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	869591	20.000	ng	0.00
76) Chrysene-d12	14.051	240	647570	20.000	ng	-0.01
86) Perylene-d12	15.545	264	498484	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1616773	148.363	ng	0.02
7) Phenol-d6	6.504	99	2039973	145.538	ng	0.00
23) Nitrobenzene-d5	7.439	82	1418224	100.832	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	801045	183.603	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2607755	94.340	ng	0.00
79) Terphenyl-d14	13.004	244	3810856	96.402	ng	0.00
Target Compounds						Qvalue

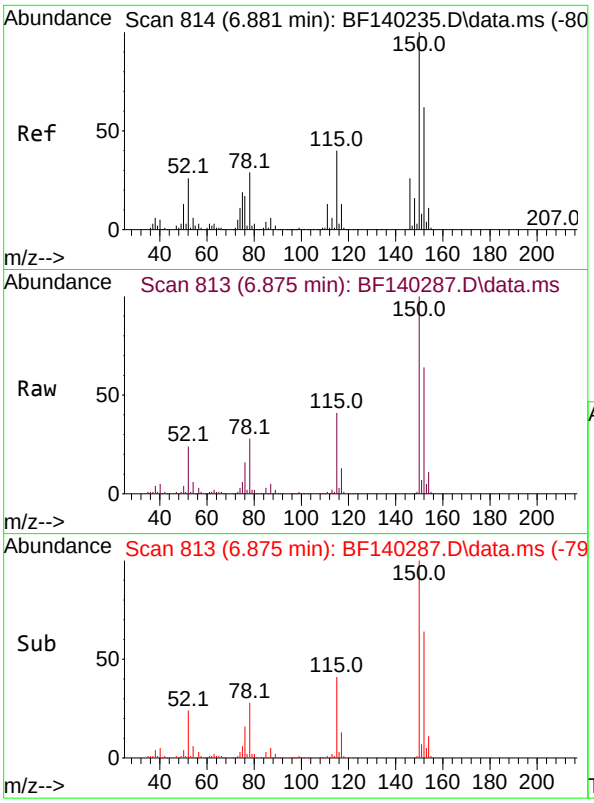
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110824\
Data File : BF140287.D
Acq On : 08 Nov 2024 10:02
Operator : RC/JU
Sample : PB164765BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Quant Time: Nov 08 10:32:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 16:47:56 2024
Response via : Initial Calibration



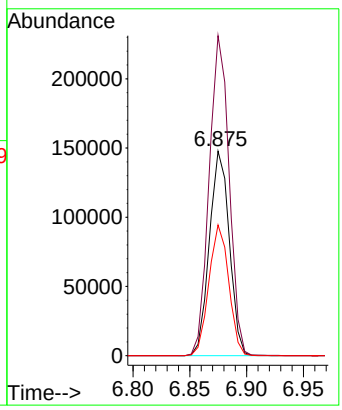


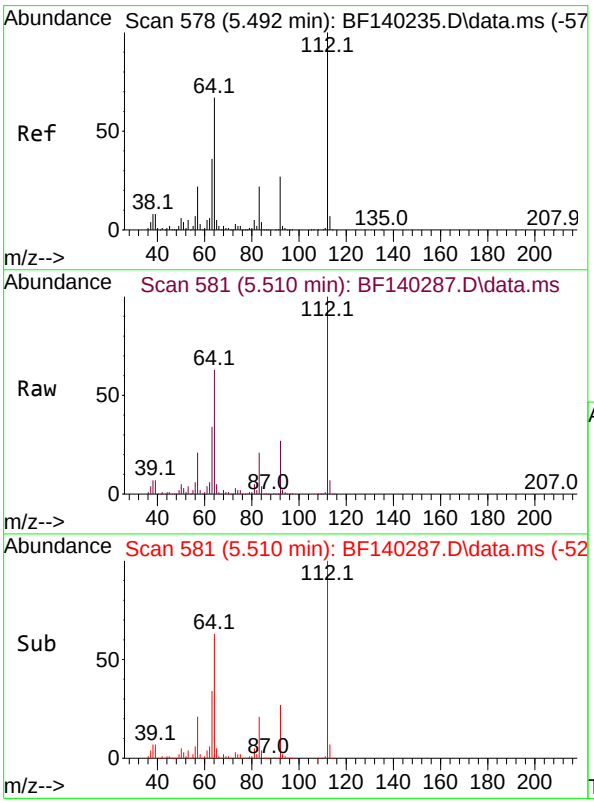
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Tgt Ion:152 Resp: 180593

Ion	Ratio	Lower	Upper
152	100		
150	156.4	129.4	194.2
115	63.9	51.5	77.3

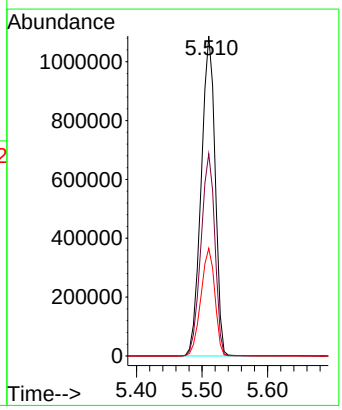


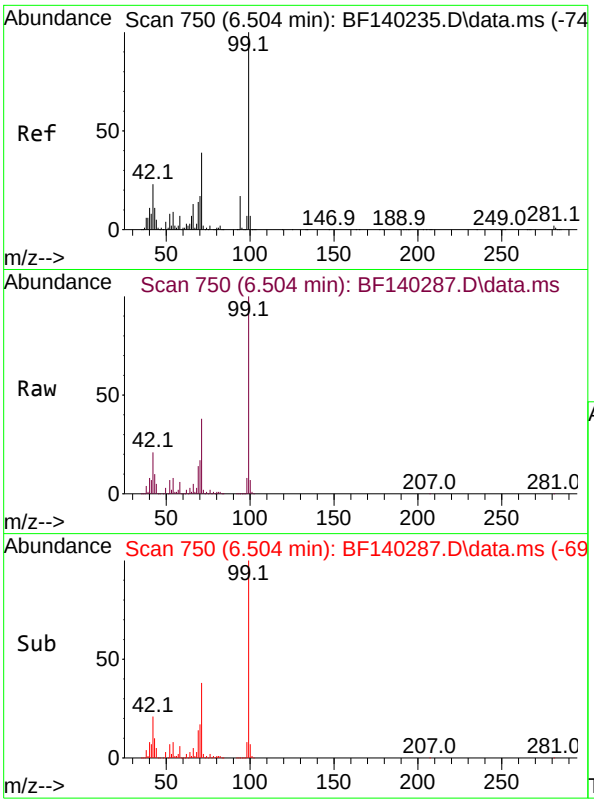


#5
2-Fluorophenol
Concen: 148.363 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.018 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Tgt Ion:112 Resp: 1616773

Ion	Ratio	Lower	Upper
112	100		
64	63.2	53.4	80.2
63	33.7	28.9	43.3



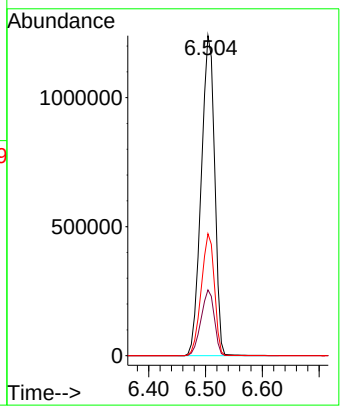


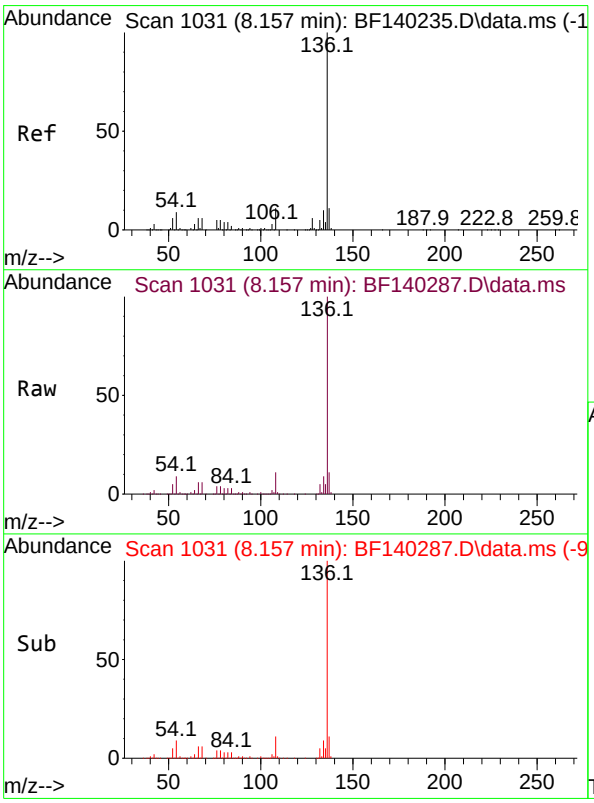
#7
Phenol-d6
Concen: 145.538 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Tgt Ion: 99 Resp: 2039973

Ion	Ratio	Lower	Upper
99	100		
42	20.5	18.2	27.2
71	38.1	30.9	46.3

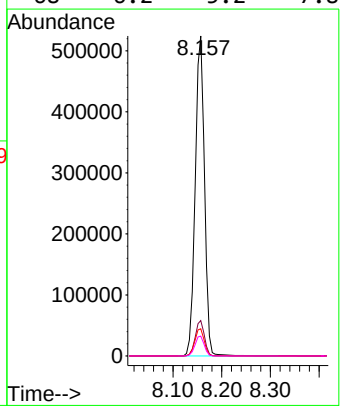


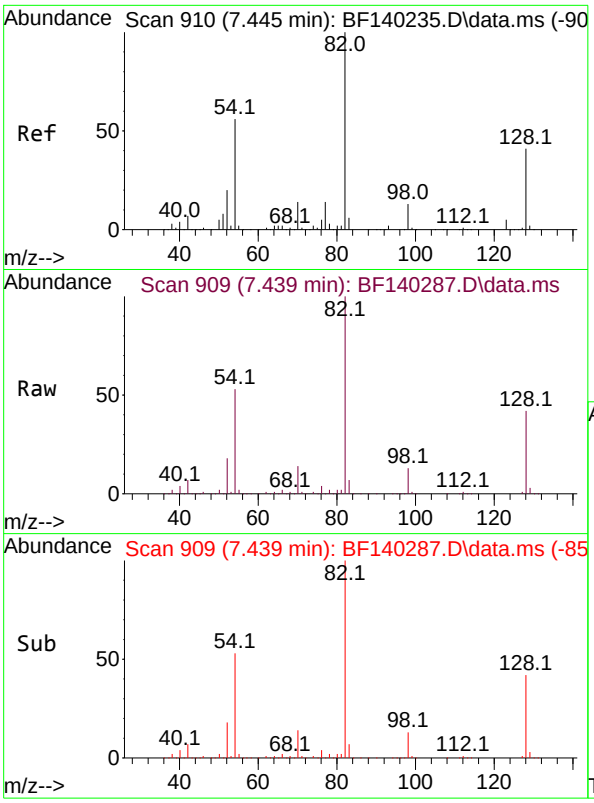


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Tgt Ion:136 Resp: 699300

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	8.5	7.7	11.5
68	6.2	5.2	7.8



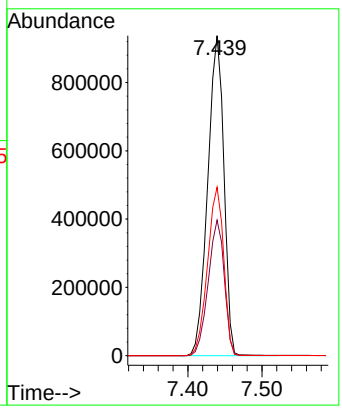


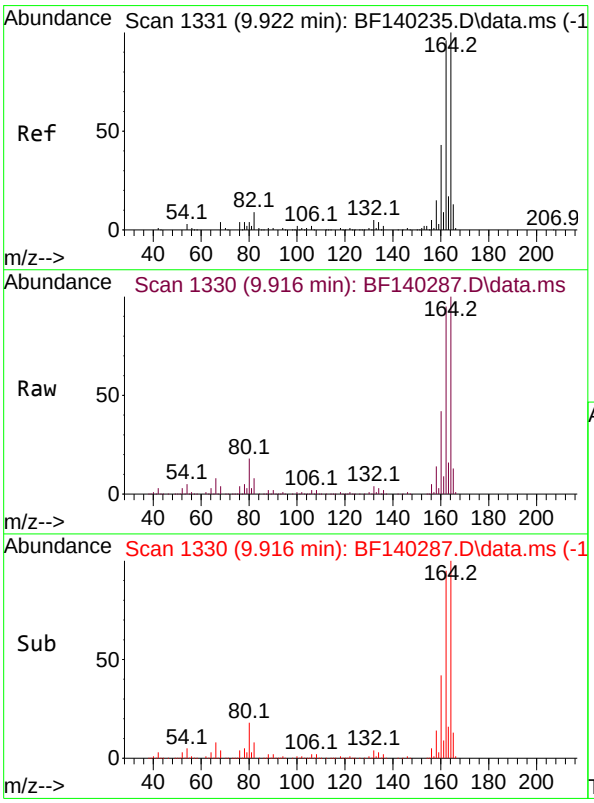
#23
Nitrobenzene-d5
Concen: 100.832 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Tgt Ion: 82 Resp: 1418224

Ion	Ratio	Lower	Upper
82	100		
128	42.4	32.8	49.2
54	52.6	44.3	66.5

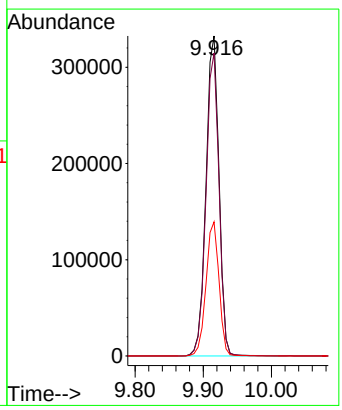


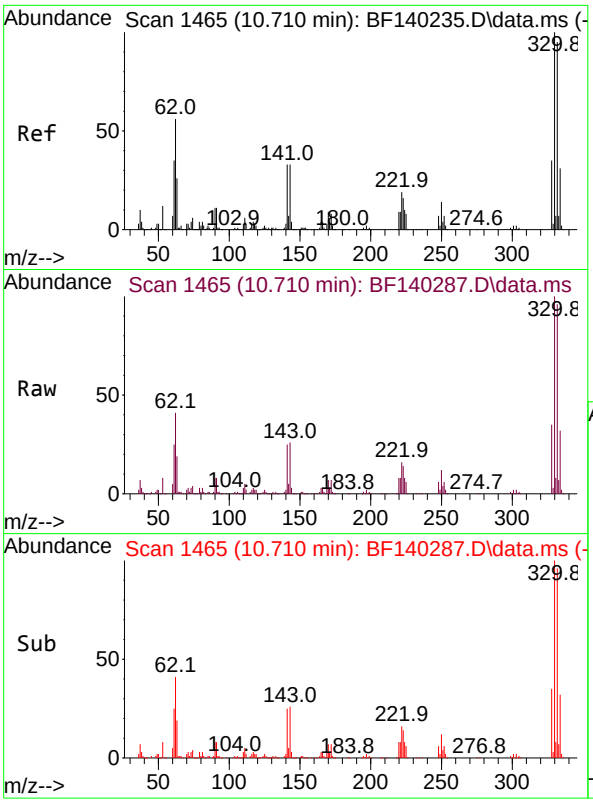


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Tgt Ion:164 Resp: 441390

Ion	Ratio	Lower	Upper
164	100		
162	94.6	77.0	115.4
160	41.9	34.1	51.1



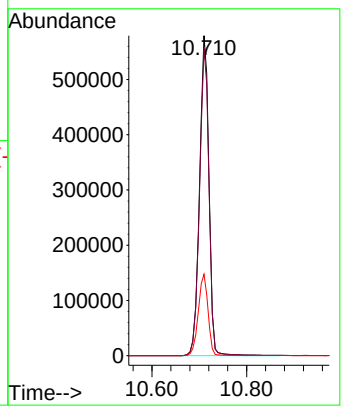


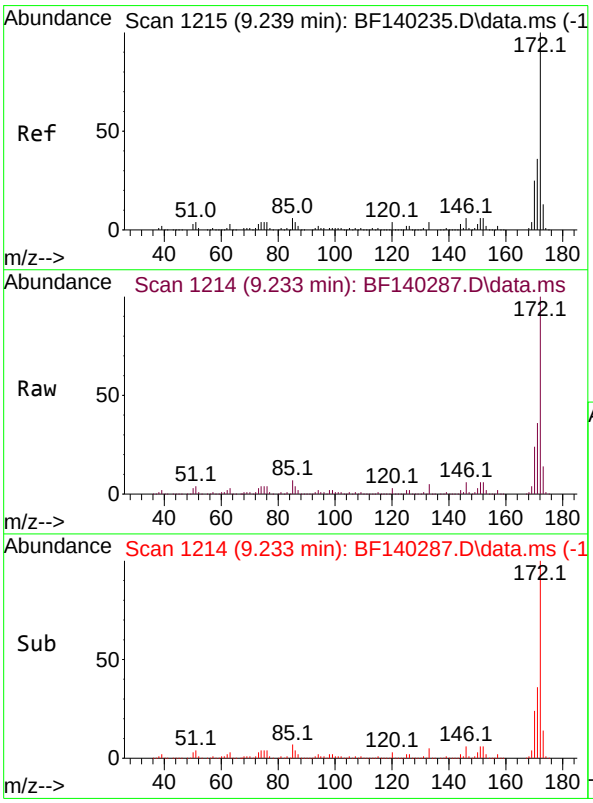
#42
2,4,6-Tribromophenol
Concen: 183.603 ng
RT: 10.710 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Tgt Ion:330 Resp: 801045

Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.4	114.6
141	26.4	27.0	40.4#

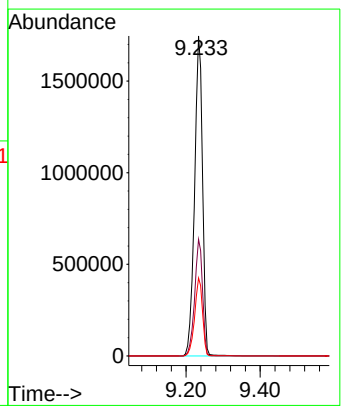


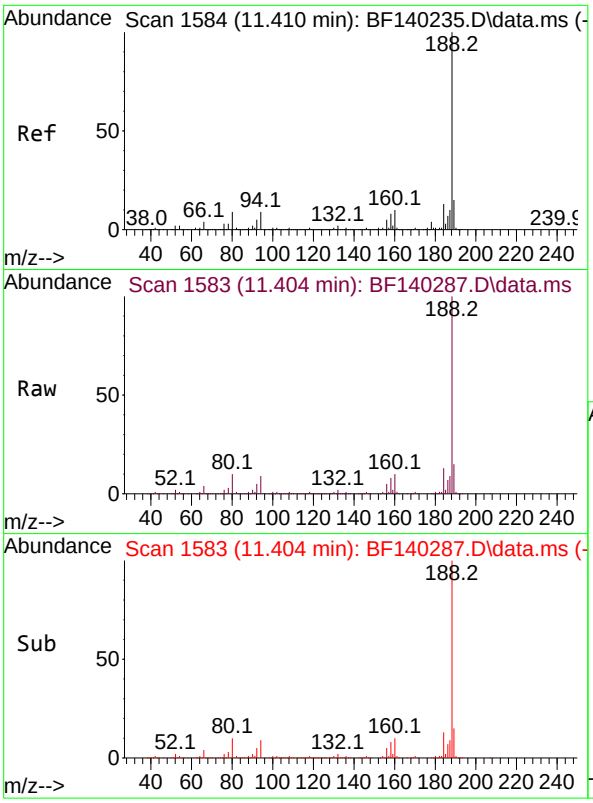


#45
2-Fluorobiphenyl
Concen: 94.340 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Tgt Ion:172 Resp: 2607755

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.8	43.2
170	24.4	19.6	29.4



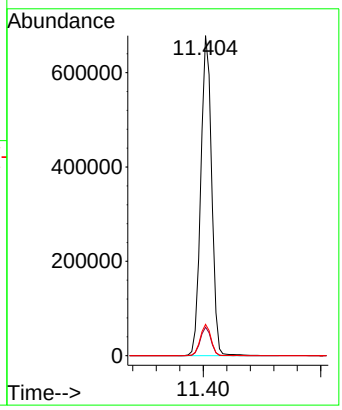


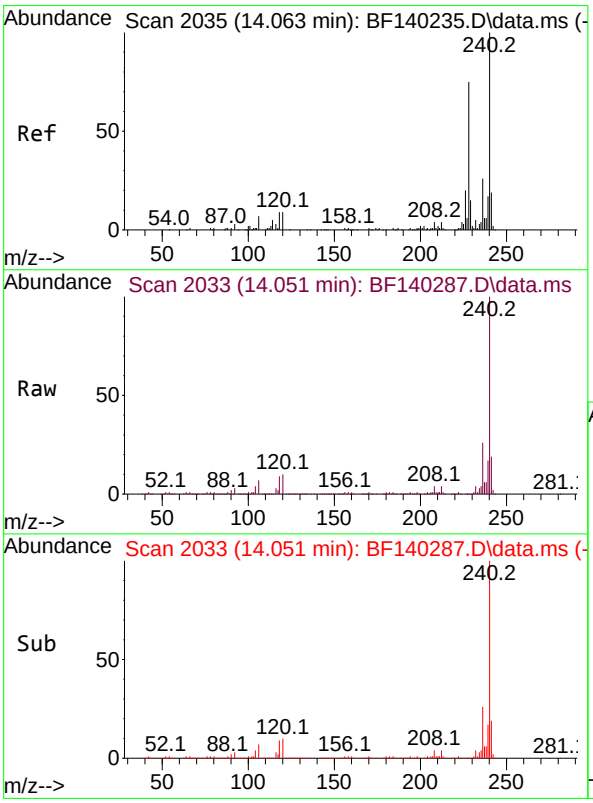
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Tgt Ion:188 Resp: 869591

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.9	10.3
80	9.8	7.5	11.3

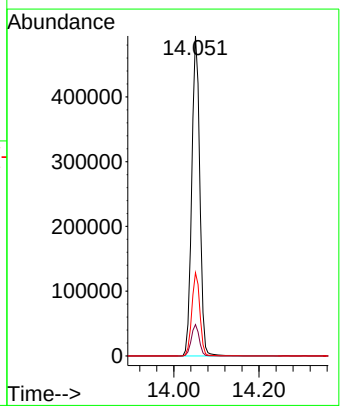


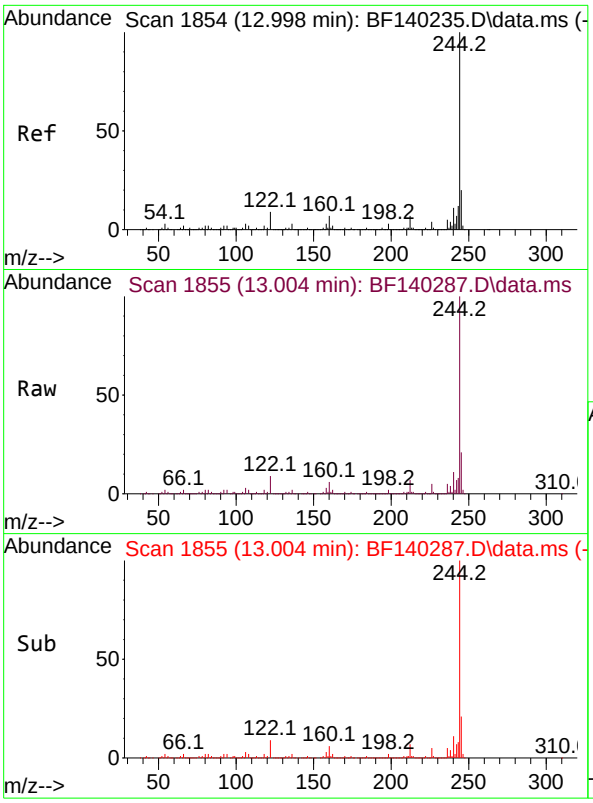


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.012 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Tgt Ion:240 Resp: 647570

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.5	11.3
236	26.0	20.9	31.3



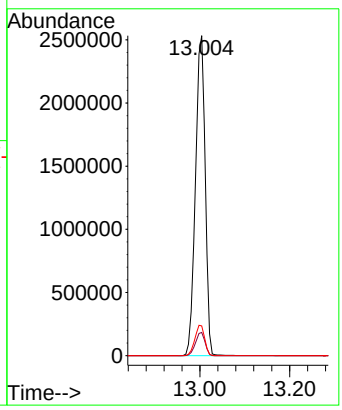


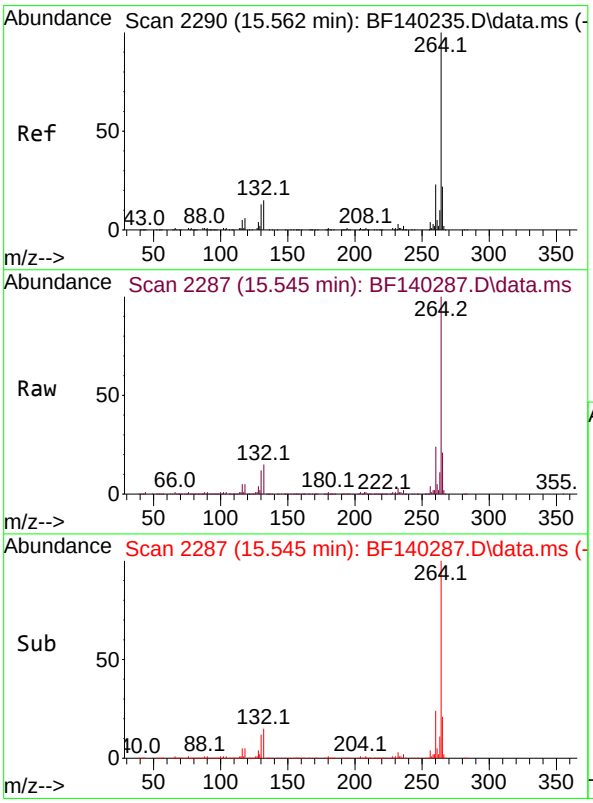
#79
Terphenyl-d14
Concen: 96.402 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Instrument :
BNA_F
ClientSampleId :
PB164765BL

Tgt Ion:244 Resp: 3810856

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	9.3	7.6	11.4

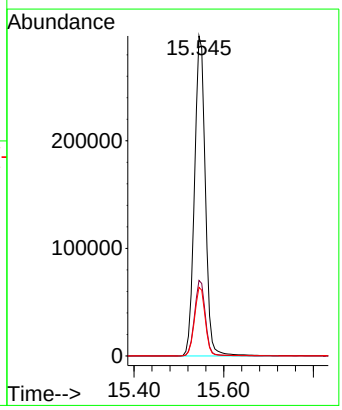




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2287
Delta R.T. -0.018 min
Lab File: BF140287.D
Acq: 08 Nov 2024 10:02

Tgt Ion:264 Resp: 498484

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.8	28.2
265	21.5	17.3	25.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101546.D
Acq On : 8 Nov 2024 11:27
Operator : RC/JU
Sample : PB164765BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 11:12:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164765BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.559	152	39669	20.000	ng		0.00
21) Naphthalene-d8	10.326	136	182397	20.000	ng		0.00
39) Acenaphthene-d10	14.169	164	121151	20.000	ng		0.00
64) Phenanthrene-d10	16.907	188	268998	20.000	ng		0.00
76) Chrysene-d12	21.072	240	348750	20.000	ng		0.00
86) Perylene-d12	23.352	264	477959	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.314	112	391806	174.641	ng		0.00
7) Phenol-d6	6.942	99	503646	163.734	ng		0.00
23) Nitrobenzene-d5	8.769	82	298098	103.233	ng		0.00
42) 2,4,6-Tribromophenol	15.679	330	339065	148.733	ng		0.00
45) 2-Fluorobiphenyl	12.794	172	763305	102.874	ng		0.00
79) Terphenyl-d14	19.503	244	1645290	104.429	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.193	88	33564	40.202	ng		99
3) Pyridine	3.610	79	90008	38.548	ng		96
4) n-Nitrosodimethylamine	3.540	42	47766	51.660	ng		95
6) Aniline	6.995	93	169491	73.415	ng		98
8) 2-Chlorophenol	7.206	128	145936	54.905	ng		98
9) Benzaldehyde	6.771	77	10368	6.891	ng		96
10) Phenol	6.965	94	193650	57.836	ng		99
11) bis(2-Chloroethyl)ether	7.024	93	126397m	45.601	ng		
12) 1,3-Dichlorobenzene	7.447	146	136200	46.937	ng		99
13) 1,4-Dichlorobenzene	7.594	146	141042	47.988	ng		98
14) 1,2-Dichlorobenzene	7.923	146	137522	47.666	ng		99
15) Benzyl Alcohol	7.894	79	97292	54.146	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.052	45	175311	53.431	ng		95
17) 2-Methylphenol	8.146	107	116679	53.826	ng		99
18) Hexachloroethane	8.616	117	46992	47.343	ng		97
19) n-Nitroso-di-n-propyla...	8.364	70	101544	50.066	ng		98
20) 3+4-Methylphenols	8.481	107	158529	52.743	ng		98
22) Acetophenone	8.411	105	202418	49.003	ng	#	99
24) Nitrobenzene	8.810	77	148824	49.551	ng		96
25) Isophorone	9.257	82	275877	49.092	ng		98
26) 2-Nitrophenol	9.498	139	81076	50.725	ng		97
27) 2,4-Dimethylphenol	9.615	122	116127	62.791	ng		99
28) bis(2-Chloroethoxy)met...	9.756	93	166352	48.359	ng		99
29) 2,4-Dichlorophenol	10.050	162	136043	51.818	ng		98
30) 1,2,4-Trichlorobenzene	10.173	180	132310	45.144	ng		100
31) Naphthalene	10.373	128	446462	48.486	ng		100
32) Benzoic acid	9.885	122	68162	40.662	ng		96
33) 4-Chloroaniline	10.602	127	101003	31.192	ng		99
34) Hexachlorobutadiene	10.620	225	81126	44.909	ng		99
35) Caprolactam	11.378	113	46038m	47.752	ng		
36) 4-Chloro-3-methylphenol	11.783	107	141553	49.374	ng		99
37) 2-Methylnaphthalene	11.965	142	319375	48.832	ng		98
38) 1-Methylnaphthalene	12.194	142	300436	46.063	ng		98
40) 1,2,4,5-Tetrachloroben...	12.324	216	157191	49.213	ng		99
41) Hexachlorocyclopentadiene	12.306	237	206372	221.405	ng		99
43) 2,4,6-Trichlorophenol	12.647	196	114541	52.215	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101546.D
Acq On : 8 Nov 2024 11:27
Operator : RC/JU
Sample : PB164765BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 11:12:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164765BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.753	196	124651	51.006	ng	97
46) 1,1'-Biphenyl	12.999	154	414187	49.562	ng	99
47) 2-Chloronaphthalene	13.046	162	322002	48.853	ng	100
48) 2-Nitroaniline	13.375	65	95976	55.009	ng	96
49) Acenaphthylene	13.904	152	527893	53.744	ng	99
50) Dimethylphthalate	13.675	163	431770	50.048	ng	100
51) 2,6-Dinitrotoluene	13.810	165	96343	48.385	ng	97
52) Acenaphthene	14.233	154	320905	51.197	ng	98
53) 3-Nitroaniline	14.221	138	72409	37.458	ng	98
54) 2,4-Dinitrophenol	14.368	184	130816	112.108	ng	98
55) Dibenzofuran	14.574	168	510603	50.587	ng	99
56) 4-Nitrophenol	14.656	139	183303	114.835	ng	94
57) 2,4-Dinitrotoluene	14.597	165	140318	50.160	ng	95
58) Fluorene	15.214	166	424454	50.389	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.850	232	120295	53.196	ng	99
60) Diethylphthalate	15.003	149	450901	49.569	ng	99
61) 4-Chlorophenyl-phenyle...	15.197	204	206925	48.375	ng	98
62) 4-Nitroaniline	15.414	138	108399	52.048	ng	97
63) Azobenzene	15.496	77	389729	52.516	ng	97
65) 4,6-Dinitro-2-methylph...	15.344	198	88341	55.324	ng	97
66) n-Nitrosodiphenylamine	15.449	169	378253	52.986	ng	99
67) 4-Bromophenyl-phenylether	16.084	248	145858	49.162	ng	99
68) Hexachlorobenzene	16.196	284	188514	48.280	ng	98
69) Atrazine	16.384	200	118062	56.017	ng	97
70) Pentachlorophenol	16.607	266	226190	106.764	ng	99
71) Phenanthrene	16.948	178	700206	53.519	ng	99
72) Anthracene	17.036	178	719643	55.699	ng	100
73) Carbazole	17.371	167	691394	53.362	ng	99
74) Di-n-butylphthalate	17.811	149	829412	51.837	ng	99
75) Fluoranthene	18.957	202	882816	52.628	ng	100
77) Benzidine	19.210	184	375815	50.166	ng	100
78) Pyrene	19.327	202	954484	48.101	ng	100
80) Butylbenzylphthalate	20.173	149	441852	49.549	ng	98
81) Benzo(a)anthracene	21.049	228	1109594	53.571	ng	100
82) 3,3'-Dichlorobenzidine	21.025	252	395580	48.517	ng	98
83) Chrysene	21.108	228	1058038	53.743	ng	99
84) Bis(2-ethylhexyl)phtha...	20.872	149	653624	48.480	ng	100
85) Di-n-octyl phthalate	21.719	149	1203152	52.750	ng	99
87) Indeno(1,2,3-cd)pyrene	25.690	276	1782258	54.262	ng	99
88) Benzo(b)fluoranthene	22.653	252	1304299	49.739	ng	100
89) Benzo(k)fluoranthene	22.694	252	1293730	54.348	ng	99
90) Benzo(a)pyrene	23.252	252	1261937	55.741	ng	99
91) Dibenzo(a,h)anthracene	25.684	278	1476377	53.972	ng	99
92) Benzo(g,h,i)perylene	26.437	276	1325956	47.712	ng	99

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

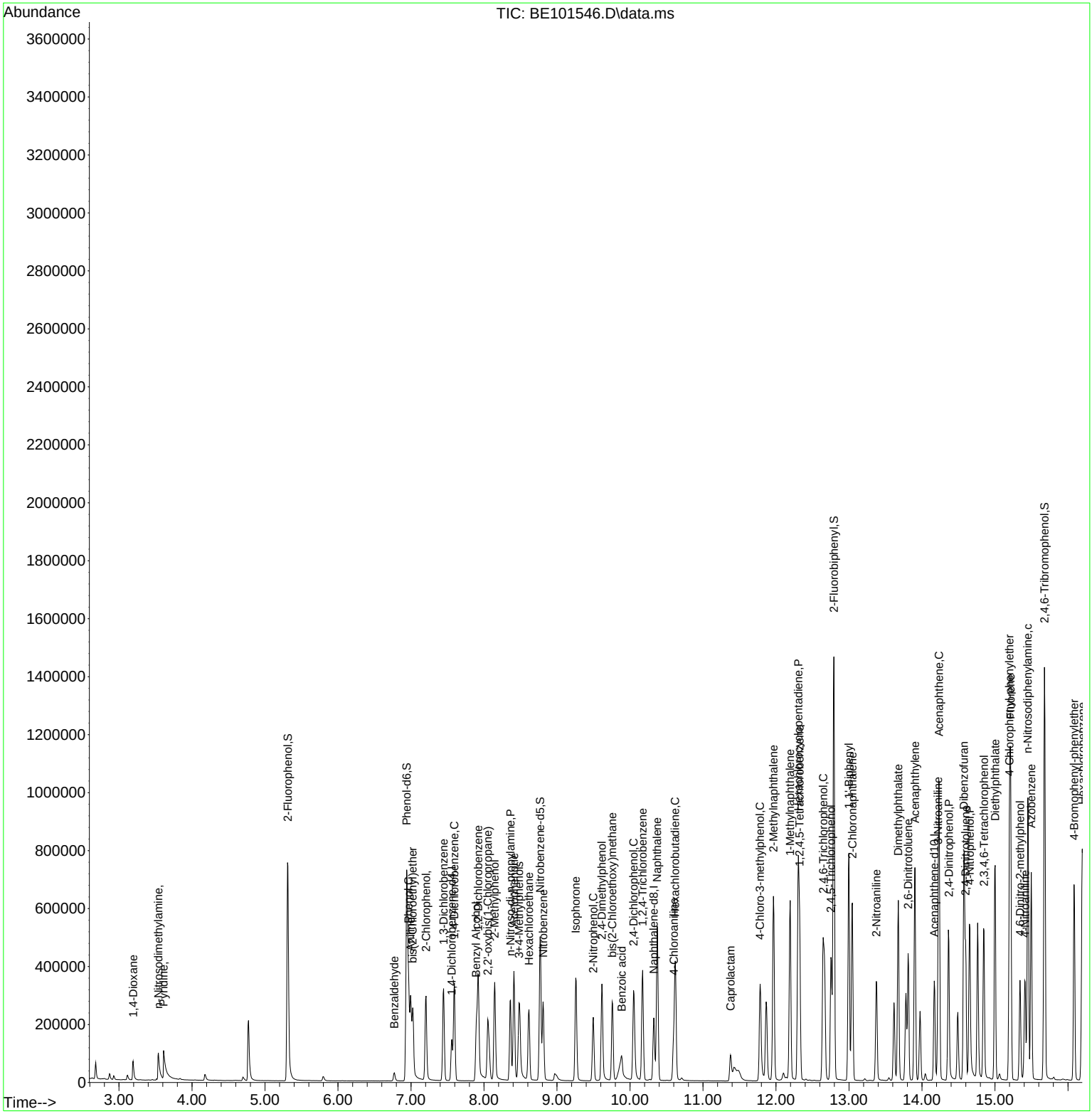
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101546.D
Acq On : 8 Nov 2024 11:27
Operator : RC/JU
Sample : PB164765BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 11:12:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164765BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024



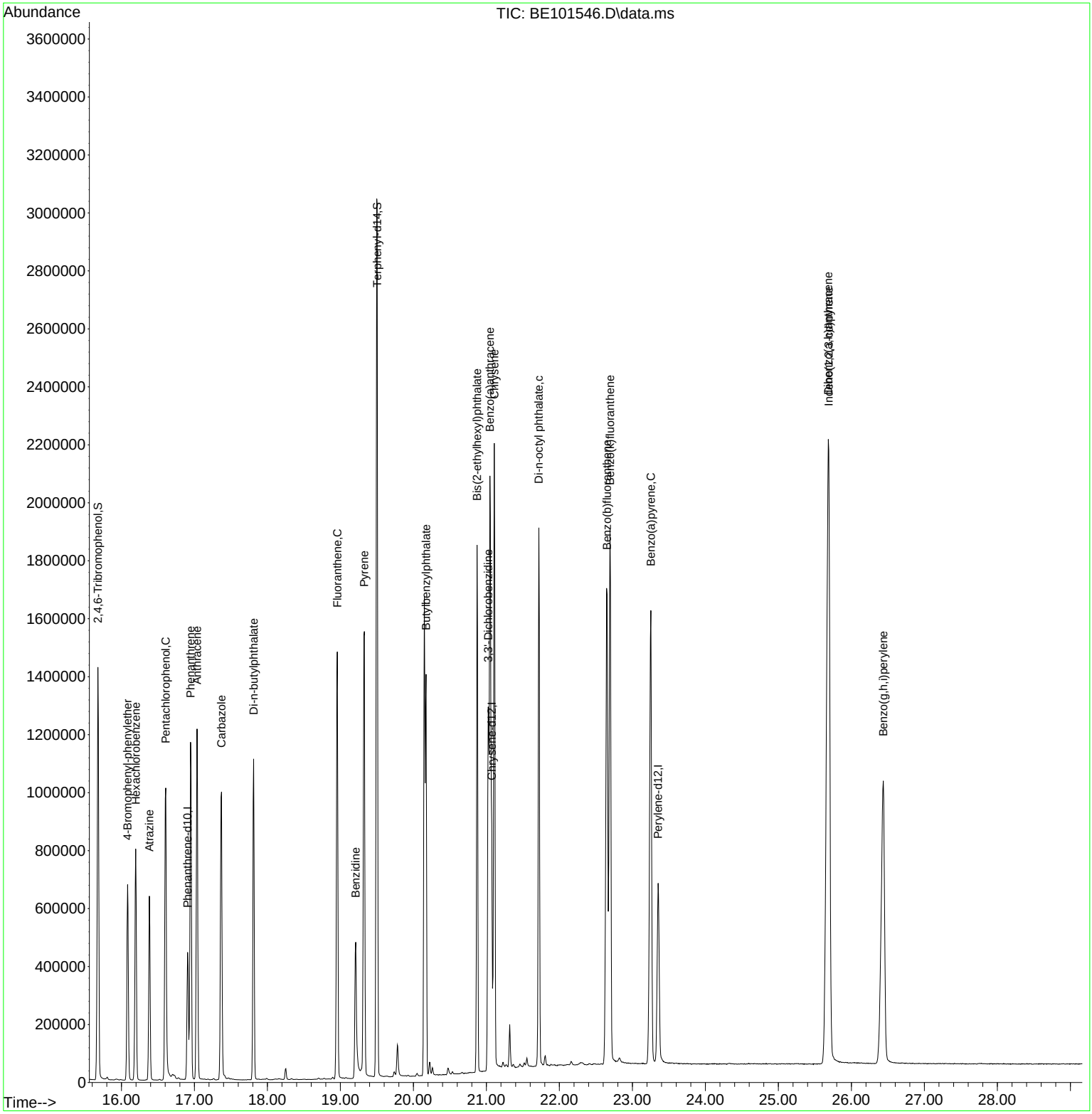
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101546.D
Acq On : 8 Nov 2024 11:27
Operator : RC/JU
Sample : PB164765BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 08 11:12:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164765BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101557.D
Acq On : 8 Nov 2024 18:07
Operator : RC/JU
Sample : P4739-04MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 23:48:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TP-14MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.558	152	47543	20.000	ng	0.00
21) Naphthalene-d8	10.326	136	202399	20.000	ng	0.00
39) Acenaphthene-d10	14.168	164	130758	20.000	ng	0.00
64) Phenanthrene-d10	16.906	188	298419	20.000	ng	0.00
76) Chrysene-d12	21.072	240	369646	20.000	ng	0.00
86) Perylene-d12	23.351	264	476783	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.314	112	471631	175.405	ng	0.00
7) Phenol-d6	6.941	99	572317	155.244	ng	0.00
23) Nitrobenzene-d5	8.769	82	358732	111.954	ng	0.00
42) 2,4,6-Tribromophenol	15.678	330	407511	165.623	ng	0.00
45) 2-Fluorobiphenyl	12.793	172	880282	109.923	ng	0.00
79) Terphenyl-d14	19.503	244	1924640	115.254	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.210	88	52039	52.007	ng	# 38
3) Pyridine	3.639	79	95459	34.112	ng	99
4) n-Nitrosodimethylamine	3.551	42	64920	58.584	ng	95
6) Aniline	7.000	93	141932	51.296	ng	97
8) 2-Chlorophenol	7.206	128	180535	56.673	ng	99
9) Benzaldehyde	6.771	77	14656	8.127	ng	97
10) Phenol	6.971	94	224881	56.040	ng	99
11) bis(2-Chloroethyl)ether	7.024	93	157300	47.351	ng	100
12) 1,3-Dichlorobenzene	7.447	146	177206	50.954	ng	99
13) 1,4-Dichlorobenzene	7.593	146	181776	51.604	ng	99
14) 1,2-Dichlorobenzene	7.923	146	175471	50.747	ng	99
15) Benzyl Alcohol	7.893	79	120744	56.069	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.052	45	219261	55.759	ng	95
17) 2-Methylphenol	8.146	107	145722	56.090	ng	99
18) Hexachloroethane	8.616	117	61431	51.640	ng	99
19) n-Nitroso-di-n-propyla...	8.363	70	124296	51.135	ng	97
20) 3+4-Methylphenols	8.481	107	194731	54.057	ng	98
22) Acetophenone	8.410	105	248188	54.146	ng	99
24) Nitrobenzene	8.810	77	180088	54.035	ng	96
25) Isophorone	9.256	82	338330	54.256	ng	98
26) 2-Nitrophenol	9.497	139	99730	56.229	ng	97
27) 2,4-Dimethylphenol	9.615	122	143542	69.945	ng	100
28) bis(2-Chloroethoxy)met...	9.756	93	205162	53.747	ng	99
29) 2,4-Dichlorophenol	10.049	162	166806	57.257	ng	99
30) 1,2,4-Trichlorobenzene	10.173	180	164942	50.716	ng	98
31) Naphthalene	10.373	128	544126	53.252	ng	99
32) Benzoic acid	9.891	122	76197	40.913	ng	98
33) 4-Chloroaniline	10.608	127	33751	9.393	ng	97
34) Hexachlorobutadiene	10.619	225	102512	51.140	ng	99
35) Caprolactam	11.383	113	45403m	42.439	ng	
36) 4-Chloro-3-methylphenol	11.783	107	170154	53.485	ng	99
37) 2-Methylnaphthalene	11.965	142	389059	53.608	ng	99
38) 1-Methylnaphthalene	12.194	142	366034	50.574	ng	99
40) 1,2,4,5-Tetrachloroben...	12.323	216	194039	56.286	ng	99
41) Hexachlorocyclopentadiene	12.306	237	227100	225.742	ng	98
43) 2,4,6-Trichlorophenol	12.646	196	139570	58.951	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101557.D
Acq On : 8 Nov 2024 18:07
Operator : RC/JU
Sample : P4739-04MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 23:48:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TP-14MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	152110	57.669	ng	98
46) 1,1'-Biphenyl	12.999	154	506984	56.209	ng	99
47) 2-Chloronaphthalene	13.046	162	396452	55.729	ng	99
48) 2-Nitroaniline	13.375	65	115695	61.439	ng	95
49) Acenaphthylene	13.904	152	641600	60.521	ng	99
50) Dimethylphthalate	13.675	163	510212	54.795	ng	100
51) 2,6-Dinitrotoluene	13.810	165	114707	53.375	ng	98
52) Acenaphthene	14.233	154	395027	58.392	ng	99
53) 3-Nitroaniline	14.221	138	72195	34.603	ng	95
54) 2,4-Dinitrophenol	14.362	184	131043	104.051	ng	93
55) Dibenzofuran	14.574	168	623362	57.221	ng	100
56) 4-Nitrophenol	14.656	139	222745	129.292	ng	95
57) 2,4-Dinitrotoluene	14.597	165	167277	55.404	ng	97
58) Fluorene	15.214	166	521107	57.318	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.844	232	145852	59.759	ng	98
60) Diethylphthalate	15.002	149	536422	54.638	ng	100
61) 4-Chlorophenyl-phenyle...	15.196	204	252430	54.677	ng	98
62) 4-Nitroaniline	15.414	138	129891	57.786	ng	97
63) Azobenzene	15.496	77	470752	58.773	ng	99
65) 4,6-Dinitro-2-methylph...	15.343	198	96596	54.530	ng	96
66) n-Nitrosodiphenylamine	15.449	169	458860	57.940	ng	99
67) 4-Bromophenyl-phenylether	16.084	248	180370	54.801	ng	98
68) Hexachlorobenzene	16.195	284	239062	55.189	ng	99
69) Atrazine	16.389	200	173790	74.328	ng	99
70) Pentachlorophenol	16.606	266	295532	125.742	ng	99
71) Phenanthrene	16.947	178	874759	60.269	ng	99
72) Anthracene	17.035	178	904945	63.136	ng	100
73) Carbazole	17.364	167	867175	60.331	ng	99
74) Di-n-butylphthalate	17.811	149	1021606	57.554	ng	100
75) Fluoranthene	18.957	202	1130677	60.759	ng	99
77) Benzidine	19.203	184	267048	33.632	ng	99
78) Pyrene	19.327	202	1213737	57.708	ng	99
80) Butylbenzylphthalate	20.173	149	543752	57.529	ng	98
81) Benzo(a)anthracene	21.048	228	1308799	59.617	ng	100
82) 3,3'-Dichlorobenzidine	21.025	252	377332	43.662	ng	99
83) Chrysene	21.107	228	1232497	59.065	ng	99
84) Bis(2-ethylhexyl)phtha...	20.872	149	803550	56.231	ng	100
85) Di-n-octyl phthalate	21.718	149	1401091	57.956	ng	99
87) Indeno(1,2,3-cd)pyrene	25.690	276	1972427	60.200	ng	100
88) Benzo(b)fluoranthene	22.646	252	1487104	56.850	ng	99
89) Benzo(k)fluoranthene	22.693	252	1435905	60.469	ng	99
90) Benzo(a)pyrene	23.252	252	1403855	62.163	ng	99
91) Dibenzo(a,h)anthracene	25.684	278	1640502	60.120	ng	99
92) Benzo(g,h,i)perylene	26.436	276	1486194	53.610	ng	99

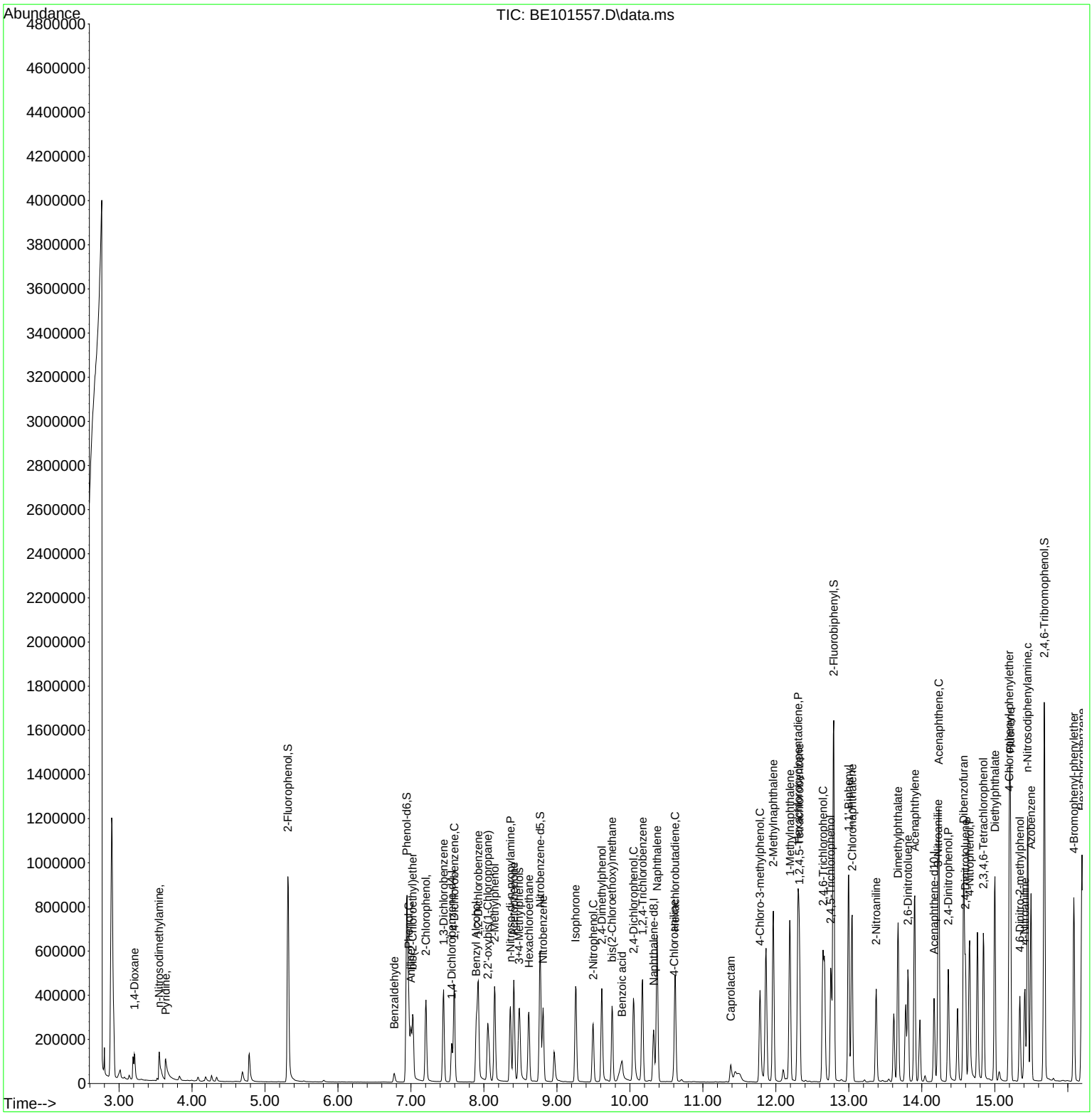
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101557.D
Acq On : 8 Nov 2024 18:07
Operator : RC/JU
Sample : P4739-04MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 23:48:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TP-14MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101557.D
Acq On : 8 Nov 2024 18:07
Operator : RC/JU
Sample : P4739-04MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 08 23:48:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
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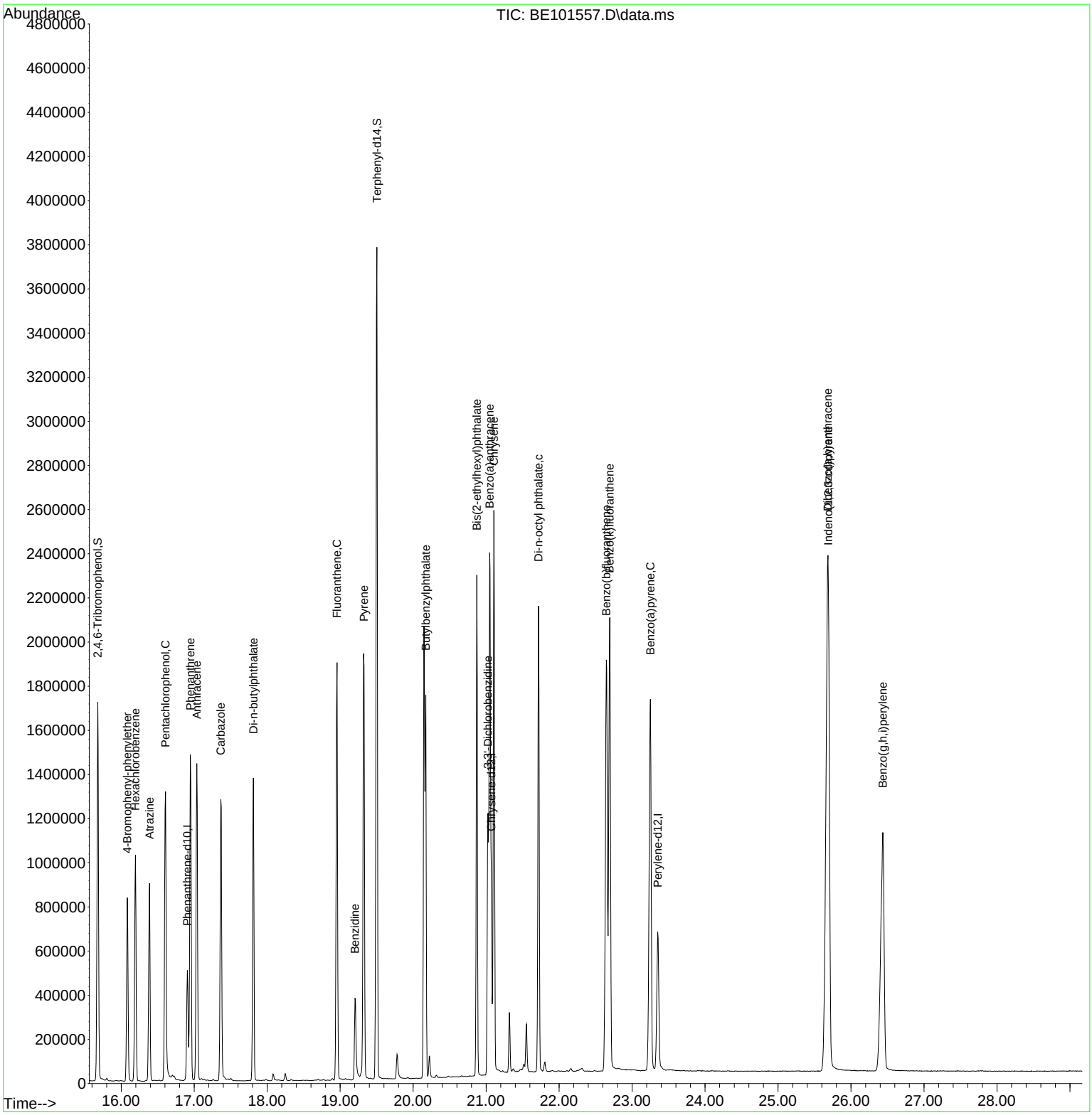
Instrument :
BNA_E
ClientSampleId :
TP-14MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101558.D
Acq On : 8 Nov 2024 18:43
Operator : RC/JU
Sample : P4739-04MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 23:48:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TP-14MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.558	152	43513	20.000	ng	0.00
21) Naphthalene-d8	10.326	136	182419	20.000	ng	0.00
39) Acenaphthene-d10	14.168	164	120731	20.000	ng	0.00
64) Phenanthrene-d10	16.906	188	285084	20.000	ng	0.00
76) Chrysene-d12	21.072	240	361953	20.000	ng	0.00
86) Perylene-d12	23.352	264	460616	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.314	112	431789	175.460	ng	0.00
7) Phenol-d6	6.941	99	525384	155.712	ng	0.00
23) Nitrobenzene-d5	8.769	82	329396	114.058	ng	0.00
42) 2,4,6-Tribromophenol	15.678	330	381819	168.070	ng	0.00
45) 2-Fluorobiphenyl	12.793	172	807756	109.243	ng	0.00
79) Terphenyl-d14	19.503	244	1883502	115.188	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.210	88	47186	51.525	ng	# 86
3) Pyridine	3.634	79	83804	32.721	ng	97
4) n-Nitrosodimethylamine	3.545	42	58524	57.704	ng	94
6) Aniline	7.000	93	118830	46.924	ng	95
8) 2-Chlorophenol	7.206	128	163579	56.106	ng	99
9) Benzaldehyde	6.771	77	13417	8.129	ng	99
10) Phenol	6.965	94	208244	56.700	ng	100
11) bis(2-Chloroethyl)ether	7.024	93	162358m	53.401	ng	
12) 1,3-Dichlorobenzene	7.447	146	159729	50.183	ng	99
13) 1,4-Dichlorobenzene	7.594	146	163569	50.736	ng	98
14) 1,2-Dichlorobenzene	7.923	146	159821	50.502	ng	99
15) Benzyl Alcohol	7.893	79	109117	55.363	ng	96
16) 2,2'-oxybis(1-Chloropr...	8.052	45	197239	54.804	ng	97
17) 2-Methylphenol	8.146	107	130465	54.869	ng	98
18) Hexachloroethane	8.610	117	55226	50.724	ng	97
19) n-Nitroso-di-n-propyla...	8.357	70	114826	51.614	ng	98
20) 3+4-Methylphenols	8.481	107	181414	55.025	ng	98
22) Acetophenone	8.410	105	226147	54.741	ng	# 99
24) Nitrobenzene	8.810	77	164836	54.875	ng	96
25) Isophorone	9.256	82	307350	54.686	ng	98
26) 2-Nitrophenol	9.497	139	91081	56.978	ng	99
27) 2,4-Dimethylphenol	9.615	122	131123	70.891	ng	98
28) bis(2-Chloroethoxy)met...	9.756	93	184706	53.688	ng	99
29) 2,4-Dichlorophenol	10.050	162	154379	58.795	ng	98
30) 1,2,4-Trichlorobenzene	10.173	180	149913	51.144	ng	99
31) Naphthalene	10.373	128	496694	53.934	ng	100
32) Benzoic acid	9.891	122	71239	42.185	ng	99
33) 4-Chloroaniline	10.608	127	31415	9.701	ng	96
34) Hexachlorobutadiene	10.619	225	91507	50.650	ng	98
35) Caprolactam	11.377	113	42496m	44.073	ng	
36) 4-Chloro-3-methylphenol	11.783	107	160083	55.831	ng	99
37) 2-Methylnaphthalene	11.965	142	354486	54.194	ng	99
38) 1-Methylnaphthalene	12.194	142	335487	51.431	ng	100
40) 1,2,4,5-Tetrachloroben...	12.323	216	176384	55.414	ng	99
41) Hexachlorocyclopentadiene	12.300	237	203373	218.946	ng	99
43) 2,4,6-Trichlorophenol	12.646	196	128850	58.943	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101558.D
Acq On : 8 Nov 2024 18:43
Operator : RC/JU
Sample : P4739-04MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 23:48:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TP-14MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	140570	57.720	ng	98
46) 1,1'-Biphenyl	12.993	154	464074	55.725	ng	100
47) 2-Chloronaphthalene	13.040	162	361296	55.005	ng	99
48) 2-Nitroaniline	13.375	65	107948	62.086	ng	97
49) Acenaphthylene	13.898	152	594230	60.708	ng	99
50) Dimethylphthalate	13.675	163	471736	54.871	ng	100
51) 2,6-Dinitrotoluene	13.810	165	105458	53.146	ng	97
52) Acenaphthene	14.233	154	363003	58.115	ng	99
53) 3-Nitroaniline	14.221	138	69474	36.065	ng	98
54) 2,4-Dinitrophenol	14.362	184	126446	108.740	ng	96
55) Dibenzofuran	14.574	168	575378	57.203	ng	99
56) 4-Nitrophenol	14.650	139	212069	133.319	ng	94
57) 2,4-Dinitrotoluene	14.597	165	156064	55.983	ng	97
58) Fluorene	15.214	166	486333	57.936	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.844	232	137013	60.800	ng	99
60) Diethylphthalate	15.003	149	495556	54.667	ng	100
61) 4-Chlorophenyl-phenyle...	15.196	204	233752	54.836	ng	99
62) 4-Nitroaniline	15.414	138	123240	59.380	ng	98
63) Azobenzene	15.496	77	439464	59.424	ng	99
65) 4,6-Dinitro-2-methylph...	15.343	198	92733	54.798	ng	97
66) n-Nitrosodiphenylamine	15.449	169	431131	56.985	ng	100
67) 4-Bromophenyl-phenylether	16.084	248	167955	53.416	ng	98
68) Hexachlorobenzene	16.195	284	223786	54.079	ng	98
69) Atrazine	16.389	200	163919	73.386	ng	98
70) Pentachlorophenol	16.607	266	280187	124.789	ng	99
71) Phenanthrene	16.947	178	828579	59.758	ng	99
72) Anthracene	17.035	178	852261	62.242	ng	100
73) Carbazole	17.364	167	831608	60.563	ng	100
74) Di-n-butylphthalate	17.811	149	974386	57.461	ng	100
75) Fluoranthene	18.957	202	1084320	60.993	ng	99
77) Benzidine	19.209	184	314471	40.446	ng	99
78) Pyrene	19.327	202	1165998	56.617	ng	100
80) Butylbenzylphthalate	20.173	149	525607	56.791	ng	98
81) Benzo(a)anthracene	21.048	228	1266776	58.929	ng	99
82) 3,3'-Dichlorobenzidine	21.025	252	375992	44.432	ng	99
83) Chrysene	21.107	228	1216349	59.530	ng	99
84) Bis(2-ethylhexyl)phtha...	20.872	149	780612	55.787	ng	99
85) Di-n-octyl phthalate	21.718	149	1370403	57.891	ng	99
87) Indeno(1,2,3-cd)pyrene	25.690	276	1919702	60.647	ng	100
88) Benzo(b)fluoranthene	22.647	252	1451469	57.436	ng	99
89) Benzo(k)fluoranthene	22.694	252	1401038	61.072	ng	100
90) Benzo(a)pyrene	23.252	252	1365269	62.576	ng	99
91) Dibenzo(a,h)anthracene	25.678	278	1597212	60.588	ng	99
92) Benzo(g,h,i)perylene	26.430	276	1429247	53.365	ng	99

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

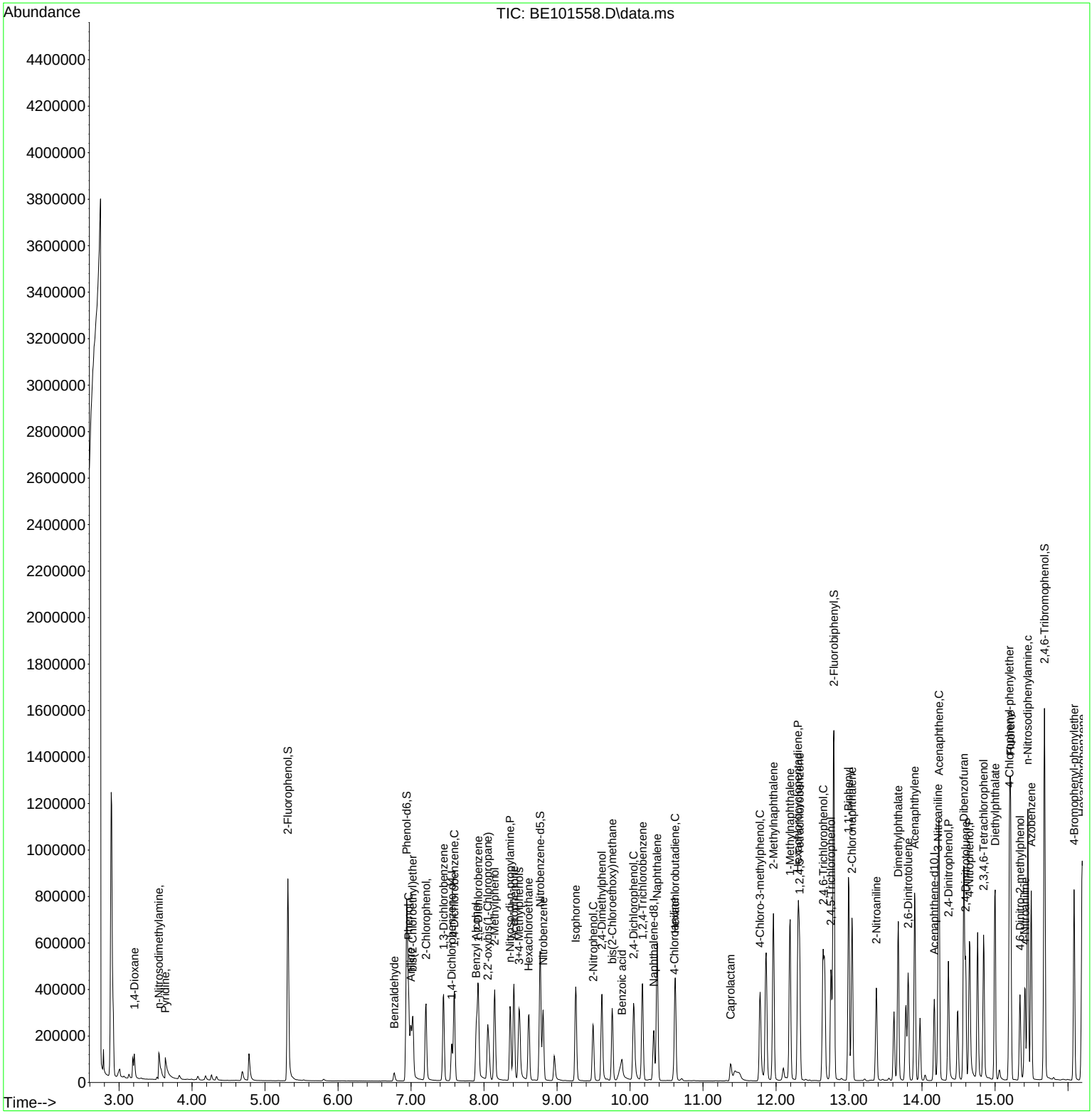
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101558.D
Acq On : 8 Nov 2024 18:43
Operator : RC/JU
Sample : P4739-04MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 23:48:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TP-14MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024



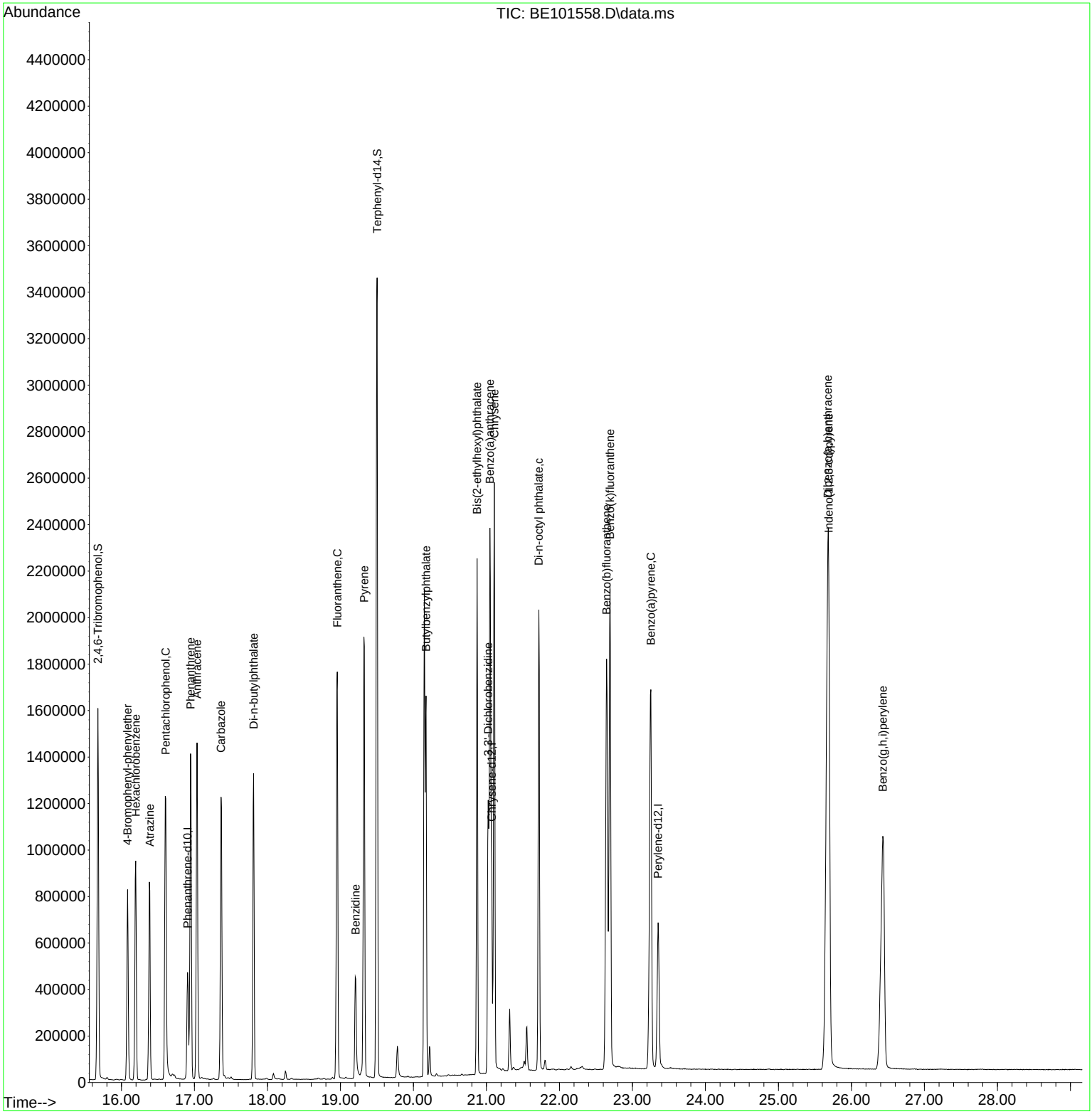
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110824\
Data File : BE101558.D
Acq On : 8 Nov 2024 18:43
Operator : RC/JU
Sample : P4739-04MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 08 23:48:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE110624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 00:01:20 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TP-14MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/10/2024
Supervised By :mohammad ahmed 11/11/2024



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Manual Integration Report

Sequence:	BE110624	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BE101494.D	Aniline	Jagrut	11/7/2024 10:28:40 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC005	BE101494.D	bis(2-Chloroethyl)ether	Jagrut	11/7/2024 10:28:40 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC005	BE101494.D	Caprolactam	Jagrut	11/7/2024 10:28:40 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC005	BE101494.D	n-Nitrosodimethylamine	Jagrut	11/7/2024 10:28:40 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC005	BE101494.D	Pyridine	Jagrut	11/7/2024 10:28:40 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC010	BE101495.D	Benzoic acid	Jagrut	11/7/2024 10:28:43 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC010	BE101495.D	bis(2-Chloroethyl)ether	Jagrut	11/7/2024 10:28:43 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC010	BE101495.D	n-Nitrosodimethylamine	Jagrut	11/7/2024 10:28:43 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC010	BE101495.D	Pyridine	Jagrut	11/7/2024 10:28:43 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC020	BE101496.D	bis(2-Chloroethyl)ether	Jagrut	11/7/2024 10:28:45 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC020	BE101496.D	Pyridine	Jagrut	11/7/2024 10:28:45 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICCC040	BE101497.D	Caprolactam	Jagrut	11/7/2024 10:28:48 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICCC040	BE101497.D	Pyridine	Jagrut	11/7/2024 10:28:48 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BE110624	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BE101498.D	Caprolactam	Jagrut	11/7/2024 10:28:50 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC050	BE101498.D	Pyridine	Jagrut	11/7/2024 10:28:50 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC060	BE101499.D	Caprolactam	Jagrut	11/7/2024 10:28:52 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC060	BE101499.D	Pyridine	Jagrut	11/7/2024 10:28:52 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC080	BE101500.D	bis(2-Chloroethyl)ether	Jagrut	11/7/2024 10:28:55 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC080	BE101500.D	Caprolactam	Jagrut	11/7/2024 10:28:55 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICC080	BE101500.D	Pyridine	Jagrut	11/7/2024 10:28:55 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICV040	BE101501.D	bis(2-Chloroethyl)ether	Jagrut	11/7/2024 10:28:58 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDICV040	BE101501.D	Pyridine	Jagrut	11/7/2024 10:28:58 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDCCC040	BE101504.D	Caprolactam	Jagrut	11/7/2024 10:31:30 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software
SSTDCCC040	BE101504.D	Pyridine	Jagrut	11/7/2024 10:31:30 AM	mohammad	11/8/2024 3:53:54 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	be110824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BE101544.D	bis(2-Chloroethyl)ether	yogesh	11/10/2024 11:37:38 PM	mohammad	11/11/2024 12:24:16 AM	Peak Integrated by Software
SSTDCCC040	BE101544.D	Pyridine	yogesh	11/10/2024 11:37:38 PM	mohammad	11/11/2024 12:24:16 AM	Peak Integrated by Software
PB164765BS	BE101546.D	bis(2-Chloroethyl)ether	yogesh	11/10/2024 11:37:41 PM	mohammad	11/11/2024 12:24:16 AM	Peak Integrated by Software
PB164765BS	BE101546.D	Caprolactam	yogesh	11/10/2024 11:37:41 PM	mohammad	11/11/2024 12:24:16 AM	Peak Integrated by Software
P4739-04MS	BE101557.D	Caprolactam	yogesh	11/10/2024 11:37:45 PM	mohammad	11/11/2024 12:24:16 AM	Peak Integrated by Software
P4739-04MSD	BE101558.D	bis(2-Chloroethyl)ether	yogesh	11/10/2024 11:37:48 PM	mohammad	11/11/2024 12:24:16 AM	Peak Integrated by Software
P4739-04MSD	BE101558.D	Caprolactam	yogesh	11/10/2024 11:37:48 PM	mohammad	11/11/2024 12:24:16 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf110524	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BF140236.D	Benzoic acid	yogesh	11/6/2024 3:09:10 AM	mohammad	11/6/2024 3:16:35 AM	Peak Integrated by Software
SSTDICC080	BF140238.D	Aniline	yogesh	11/6/2024 3:09:12 AM	mohammad	11/6/2024 3:16:35 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf110824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140286.D	Benzoic acid	yogesh	11/10/2024 11:35:51 PM	mohammad	11/11/2024 12:24:00 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF111124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF140316.D	Caprolactam	yogesh	11/12/2024 1:19:20 AM	mohammad	11/13/2024 3:15:56 AM	Peak Integrated by Software
SSTDICC050	BF140317.D	Caprolactam	yogesh	11/12/2024 1:19:23 AM	mohammad	11/13/2024 3:15:56 AM	Peak Integrated by Software
SSTDICC080	BF140319.D	Caprolactam	yogesh	11/12/2024 1:19:25 AM	mohammad	11/13/2024 3:15:56 AM	Peak Integrated by Software
SSTDICV040	BF140320.D	Caprolactam	yogesh	11/12/2024 1:19:26 AM	mohammad	11/13/2024 3:15:56 AM	Peak Integrated by Software

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110624

Review By	Jagrut	Review On	11/7/2024 11:03:46 AM		
Supervise By	mohammad	Supervise On	11/8/2024 3:53:54 AM		
SubDirectory	BE110624	HP Acquire Method	BNA_E	HP Processing Method	be110624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101491.D	6 Nov 2024 11:40	RC/JU	Ok
2	SSTDCCC040	BE101492.D	6 Nov 2024 13:15	RC/JU	Not Ok
3	SSTDICC2.5	BE101493.D	6 Nov 2024 13:51	RC/JU	Ok
4	SSTDICC005	BE101494.D	6 Nov 2024 14:27	RC/JU	Ok,M
5	SSTDICC010	BE101495.D	6 Nov 2024 15:03	RC/JU	Ok,M
6	SSTDICC020	BE101496.D	6 Nov 2024 15:39	RC/JU	Ok,M
7	SSTDICCC040	BE101497.D	6 Nov 2024 16:14	RC/JU	Ok,M
8	SSTDICC050	BE101498.D	6 Nov 2024 16:50	RC/JU	Ok,M
9	SSTDICC060	BE101499.D	6 Nov 2024 17:26	RC/JU	Ok,M
10	SSTDICC080	BE101500.D	6 Nov 2024 18:02	RC/JU	Ok,M
11	SSTDICV040	BE101501.D	6 Nov 2024 18:41	RC/JU	Ok,M
12	PB164561BL	BE101502.D	6 Nov 2024 19:16	RC/JU	Ok
13	DFTPP	BE101503.D	6 Nov 2024 19:52	RC/JU	Ok
14	SSTDCCC040	BE101504.D	6 Nov 2024 20:28	RC/JU	Ok,M
15	PB164561TB	BE101505.D	6 Nov 2024 21:04	RC/JU	Ok
16	PB164561BS	BE101506.D	6 Nov 2024 21:40	RC/JU	Ok,M
17	P4660-11	BE101507.D	6 Nov 2024 22:15	RC/JU	Ok
18	P4667-04	BE101508.D	6 Nov 2024 22:51	RC/JU	Ok
19	P4667-08	BE101509.D	6 Nov 2024 23:27	RC/JU	ReRun
20	P4667-12	BE101510.D	7 Nov 2024 00:03	RC/JU	ReRun
21	P4667-16	BE101511.D	7 Nov 2024 00:39	RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110624

Review By	Jagrut	Review On	11/7/2024 11:03:46 AM		
Supervise By	mohammad	Supervise On	11/8/2024 3:53:54 AM		
SubDirectory	BE110624	HP Acquire Method	BNA_E	HP Processing Method	be110624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4659-04	BE101512.D	7 Nov 2024 1:14	RC/JU	Ok
23	P4679-04	BE101513.D	7 Nov 2024 1:50	RC/JU	Ok
24	P4680-04	BE101514.D	7 Nov 2024 2:26	RC/JU	ReRun
25	P4680-08	BE101515.D	7 Nov 2024 3:02	RC/JU	ReRun
26	P4660-07	BE101516.D	7 Nov 2024 3:38	RC/JU	Ok,M
27	P4711-05	BE101517.D	7 Nov 2024 4:13	RC/JU	ReRun
28	P4711-10	BE101518.D	7 Nov 2024 4:49	RC/JU	ReRun
29	P4711-01	BE101519.D	7 Nov 2024 5:25	RC/JU	Ok,M
30	P4711-06	BE101520.D	7 Nov 2024 6:01	RC/JU	Dilution
31	P4708-01	BE101521.D	7 Nov 2024 6:37	RC/JU	Ok,M
32	P4706-01	BE101522.D	7 Nov 2024 7:13	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110824

Review By	yogesh	Review On	11/10/2024 11:38:05 PM		
Supervise By	mohammad	Supervise On	11/11/2024 12:24:16 AM		
SubDirectory	BE110824	HP Acquire Method	BNA_E	HP Processing Method	be110624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101543.D	8 Nov 2024 9:34	RC/JU	Ok
2	SSTDCCC040	BE101544.D	8 Nov 2024 10:07	RC/JU	Ok,M
3	PB164750BL	BE101545.D	8 Nov 2024 10:51	RC/JU	Ok
4	PB164765BS	BE101546.D	8 Nov 2024 11:27	RC/JU	Ok,M
5	PB164694TB	BE101547.D	8 Nov 2024 12:03	RC/JU	Ok
6	P4701-08	BE101548.D	8 Nov 2024 12:45	RC/JU	Ok
7	P4700-04	BE101549.D	8 Nov 2024 13:21	RC/JU	Ok
8	P4694-08	BE101550.D	8 Nov 2024 13:56	RC/JU	Ok
9	P4694-04	BE101551.D	8 Nov 2024 14:32	RC/JU	Ok
10	P4738-02	BE101552.D	8 Nov 2024 15:08	RC/JU	Ok
11	P4739-08	BE101553.D	8 Nov 2024 15:44	RC/JU	Ok
12	P4739-12	BE101554.D	8 Nov 2024 16:20	RC/JU	Ok
13	P4739-16	BE101555.D	8 Nov 2024 16:55	RC/JU	Ok
14	P4739-04	BE101556.D	8 Nov 2024 17:31	RC/JU	Ok
15	P4739-04MS	BE101557.D	8 Nov 2024 18:07	RC/JU	Ok,M
16	P4739-04MSD	BE101558.D	8 Nov 2024 18:43	RC/JU	Ok,M
17	P4732-02	BE101559.D	8 Nov 2024 19:19	RC/JU	Ok
18	P4722-14	BE101560.D	8 Nov 2024 19:54	RC/JU	Ok
19	P4722-09	BE101561.D	8 Nov 2024 20:30	RC/JU	Ok
20	P4722-04	BE101562.D	8 Nov 2024 21:06	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM				
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM				
SubDirectory	BF110524	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140230.D	05 Nov 2024 11:56	RC/JU	Ok
2	SSTDICC2.5	BF140231.D	05 Nov 2024 12:26	RC/JU	Ok
3	SSTDICC005	BF140232.D	05 Nov 2024 12:52	RC/JU	Ok
4	SSTDICC010	BF140233.D	05 Nov 2024 13:18	RC/JU	Ok
5	SSTDICC020	BF140234.D	05 Nov 2024 13:45	RC/JU	Ok
6	SSTDICCC040	BF140235.D	05 Nov 2024 14:11	RC/JU	Ok
7	SSTDICC050	BF140236.D	05 Nov 2024 14:37	RC/JU	Ok,M
8	SSTDICC060	BF140237.D	05 Nov 2024 15:03	RC/JU	Ok
9	SSTDICC080	BF140238.D	05 Nov 2024 15:30	RC/JU	Ok,M
10	SSTDICV040	BF140239.D	05 Nov 2024 16:07	RC/JU	Ok
11	PB164366BL	BF140240.D	05 Nov 2024 16:37	RC/JU	Ok
12	P4368-02	BF140241.D	05 Nov 2024 17:03	RC/JU	Ok
13	P4368-02	BF140242.D	05 Nov 2024 17:30	RC/JU	Ok,M
14	P4368-08	BF140243.D	05 Nov 2024 17:56	RC/JU	Ok,M
15	P4368-02	BF140244.D	05 Nov 2024 18:22	RC/JU	Not Ok
16	P4368-08	BF140245.D	05 Nov 2024 18:49	RC/JU	Not Ok
17	P4368-01	BF140246.D	05 Nov 2024 19:15	RC/JU	Ok
18	P4368-01	BF140247.D	05 Nov 2024 19:41	RC/JU	Ok,M
19	P4368-07	BF140248.D	05 Nov 2024 20:07	RC/JU	Ok,M
20	P4368-07	BF140249.D	05 Nov 2024 20:34	RC/JU	Ok,M
21	PB164369BL	BF140250.D	05 Nov 2024 21:00	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM				
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM				
SubDirectory	BF110524	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	SSTDCCC040	BF140251.D	05 Nov 2024 21:26	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110824

Review By	yogesh	Review On	11/10/2024 11:36:46 PM				
Supervise By	mohammad	Supervise On	11/11/2024 12:24:00 AM				
SubDirectory	BF110824	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140285.D	08 Nov 2024 09:09	RC/JU	Ok
2	SSTDCCC040	BF140286.D	08 Nov 2024 09:35	RC/JU	Ok,M
3	PB164765BL	BF140287.D	08 Nov 2024 10:02	RC/JU	Ok
4	PB164750BS	BF140288.D	08 Nov 2024 10:28	RC/JU	Ok,M
5	PB164680BL	BF140289.D	08 Nov 2024 10:55	RC/JU	Ok
6	PB164680BS	BF140290.D	08 Nov 2024 11:22	RC/JU	Ok,M
7	P4732-01	BF140291.D	08 Nov 2024 11:54	RC/JU	Ok
8	P4694-05RE	BF140292.D	08 Nov 2024 12:21	RC/JU	Confirms
9	P4720-01DL	BF140293.D	08 Nov 2024 12:47	RC/JU	Ok
10	P4695-01DL	BF140294.D	08 Nov 2024 13:13	RC/JU	Ok,M
11	P4739-01	BF140295.D	08 Nov 2024 13:40	RC/JU	Ok
12	P4694-01DL	BF140296.D	08 Nov 2024 14:06	RC/JU	Ok,M
13	P4739-05	BF140297.D	08 Nov 2024 14:32	RC/JU	Ok
14	P4739-09	BF140298.D	08 Nov 2024 14:58	RC/JU	Dilution
15	P4737-01	BF140299.D	08 Nov 2024 15:24	RC/JU	Ok
16	P4737-01MS	BF140300.D	08 Nov 2024 15:51	RC/JU	Ok
17	P4737-01MSD	BF140301.D	08 Nov 2024 16:17	RC/JU	Ok
18	P4738-01	BF140302.D	08 Nov 2024 16:43	RC/JU	ReRun
19	P4722-08	BF140303.D	08 Nov 2024 17:10	RC/JU	Dilution
20	P4739-13	BF140304.D	08 Nov 2024 17:36	RC/JU	Ok,M
21	P4722-03	BF140305.D	08 Nov 2024 18:03	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110824

Review By	yogesh	Review On	11/10/2024 11:36:46 PM				
Supervise By	mohammad	Supervise On	11/11/2024 12:24:00 AM				
SubDirectory	BF110824	HP Acquire Method	BNA_F		HP Processing Method	bf110524	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4756-01	BF140306.D	08 Nov 2024 18:29	RC/JU	Ok
23	P4756-01MS	BF140307.D	08 Nov 2024 18:55	RC/JU	Ok
24	P4756-01MSD	BF140308.D	08 Nov 2024 19:22	RC/JU	Ok
25	P4768-01	BF140309.D	08 Nov 2024 19:48	RC/JU	Ok
26	P4768-06	BF140310.D	08 Nov 2024 20:14	RC/JU	Dilution

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111124

Review By	yogesh	Review On	11/12/2024 1:20:41 AM				
Supervise By	mohammad	Supervise On	11/13/2024 3:15:56 AM				
SubDirectory	BF111124	HP Acquire Method	BNA_F		HP Processing Method	bf111124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140311.D	11 Nov 2024 12:24	RC/JU	Ok
2	SSTDICC2.5	BF140312.D	11 Nov 2024 12:55	RC/JU	Ok
3	SSTDICC005	BF140313.D	11 Nov 2024 13:21	RC/JU	Ok
4	SSTDICC010	BF140314.D	11 Nov 2024 13:48	RC/JU	Ok
5	SSTDICC020	BF140315.D	11 Nov 2024 14:14	RC/JU	Ok
6	SSTDICCC040	BF140316.D	11 Nov 2024 14:40	RC/JU	Ok,M
7	SSTDICC050	BF140317.D	11 Nov 2024 15:07	RC/JU	Ok,M
8	SSTDICC060	BF140318.D	11 Nov 2024 15:34	RC/JU	Ok
9	SSTDICC080	BF140319.D	11 Nov 2024 16:00	RC/JU	Ok,M
10	SSTDICV040	BF140320.D	11 Nov 2024 16:30	RC/JU	Ok,M
11	PB164711BL	BF140321.D	11 Nov 2024 17:01	RC/JU	Ok
12	PB164848BS	BF140322.D	11 Nov 2024 17:32	RC/JU	Ok,M
13	PB164793TB	BF140323.D	11 Nov 2024 17:59	RC/JU	Ok
14	P4771-06	BF140324.D	11 Nov 2024 18:25	RC/JU	Ok
15	P4771-08	BF140325.D	11 Nov 2024 18:52	RC/JU	Ok
16	P4788-04	BF140326.D	11 Nov 2024 19:18	RC/JU	Ok
17	P4789-04	BF140327.D	11 Nov 2024 19:44	RC/JU	Ok
18	P4792-06	BF140328.D	11 Nov 2024 20:10	RC/JU	Ok
19	P4798-04	BF140329.D	11 Nov 2024 20:36	RC/JU	Ok
20	P4718-03	BF140330.D	11 Nov 2024 21:03	RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110624

Review By	Jagrut	Review On	11/7/2024 11:03:46 AM		
Supervise By	mohammad	Supervise On	11/8/2024 3:53:54 AM		
SubDirectory	BE110624	HP Acquire Method	BNA_E	HP Processing Method	be110624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/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	BE101491.D	6 Nov 2024 11:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101492.D	6 Nov 2024 13:15	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BE101493.D	6 Nov 2024 13:51		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BE101494.D	6 Nov 2024 14:27	Compound #32,54 removed from 5ppm	RC/JU	Ok,M
5	SSTDICC010	SSTDICC010	BE101495.D	6 Nov 2024 15:03		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BE101496.D	6 Nov 2024 15:39	Compound #32 Kept on LR	RC/JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BE101497.D	6 Nov 2024 16:14	The Calibration is Good For 8270 DOD Except com#77 and will NOT be used for 625.1 Method	RC/JU	Ok,M
8	SSTDICC050	SSTDICC050	BE101498.D	6 Nov 2024 16:50	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
9	SSTDICC060	SSTDICC060	BE101499.D	6 Nov 2024 17:26		RC/JU	Ok,M
10	SSTDICC080	SSTDICC080	BE101500.D	6 Nov 2024 18:02		RC/JU	Ok,M
11	SSTDICV040	ICVBE110624	BE101501.D	6 Nov 2024 18:41		RC/JU	Ok,M
12	PB164561BL	PB164561BL	BE101502.D	6 Nov 2024 19:16		RC/JU	Ok
13	DFTPP	DFTPP	BE101503.D	6 Nov 2024 19:52		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BE101504.D	6 Nov 2024 20:28		RC/JU	Ok,M
15	PB164561TB	PB164561TB	BE101505.D	6 Nov 2024 21:04		RC/JU	Ok
16	PB164561BS	PB164561BS	BE101506.D	6 Nov 2024 21:40		RC/JU	Ok,M

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110624

Review By	Jagrut	Review On	11/7/2024 11:03:46 AM		
Supervise By	mohammad	Supervise On	11/8/2024 3:53:54 AM		
SubDirectory	BE110624	HP Acquire Method	BNA_E	HP Processing Method	be110624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4660-11	WC-CONCRETE-01-C	BE101507.D	6 Nov 2024 22:15		RC/JU	Ok
18	P4667-04	BP-F-6	BE101508.D	6 Nov 2024 22:51		RC/JU	Ok
19	P4667-08	BP-F-5	BE101509.D	6 Nov 2024 23:27	Internal Standard and Surrogate fail	RC/JU	ReRun
20	P4667-12	TP-10	BE101510.D	7 Nov 2024 00:03	Internal Standard Fail	RC/JU	ReRun
21	P4667-16	BP-F-7	BE101511.D	7 Nov 2024 00:39		RC/JU	Ok
22	P4659-04	MH-2	BE101512.D	7 Nov 2024 1:14		RC/JU	Ok
23	P4679-04	MH-1	BE101513.D	7 Nov 2024 1:50		RC/JU	Ok
24	P4680-04	BP-F26	BE101514.D	7 Nov 2024 2:26	Internal Standrad Fail	RC/JU	ReRun
25	P4680-08	BP-F25	BE101515.D	7 Nov 2024 3:02	Internal Standrad Fail	RC/JU	ReRun
26	P4660-07	WC-WOOD-01-C	BE101516.D	7 Nov 2024 3:38		RC/JU	Ok,M
27	P4711-05	CF-613-COMP-16	BE101517.D	7 Nov 2024 4:13	Internal Standrad Fail	RC/JU	ReRun
28	P4711-10	CF-613-COMP-17	BE101518.D	7 Nov 2024 4:49	Internal Standrad Fail	RC/JU	ReRun
29	P4711-01	CF-613-COMP-16	BE101519.D	7 Nov 2024 5:25		RC/JU	Ok,M
30	P4711-06	CF-613-COMP-17	BE101520.D	7 Nov 2024 6:01	Need further 5X Dilution	RC/JU	Dilution
31	P4708-01	OR-02-110424	BE101521.D	7 Nov 2024 6:37		RC/JU	Ok,M
32	P4706-01	TR-04-110424	BE101522.D	7 Nov 2024 7:13		RC/JU	Ok,M

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110824

Review By	yogesh	Review On	11/10/2024 11:38:05 PM		
Supervise By	mohammad	Supervise On	11/11/2024 12:24:16 AM		
SubDirectory	BE110824	HP Acquire Method	BNA_E	HP Processing Method	be110624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/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	BE101543.D	8 Nov 2024 9:34		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101544.D	8 Nov 2024 10:07		RC/JU	Ok,M
3	PB164750BL	PB164750BL	BE101545.D	8 Nov 2024 10:51		RC/JU	Ok
4	PB164765BS	PB164765BS	BE101546.D	8 Nov 2024 11:27		RC/JU	Ok,M
5	PB164694TB	PB164694TB	BE101547.D	8 Nov 2024 12:03		RC/JU	Ok
6	P4701-08	BP-F4	BE101548.D	8 Nov 2024 12:45		RC/JU	Ok
7	P4700-04	MH-8	BE101549.D	8 Nov 2024 13:21		RC/JU	Ok
8	P4694-08	Z-04	BE101550.D	8 Nov 2024 13:56		RC/JU	Ok
9	P4694-04	Z-03A	BE101551.D	8 Nov 2024 14:32		RC/JU	Ok
10	P4738-02	72-12018	BE101552.D	8 Nov 2024 15:08		RC/JU	Ok
11	P4739-08	BP-G2	BE101553.D	8 Nov 2024 15:44		RC/JU	Ok
12	P4739-12	BP-B2	BE101554.D	8 Nov 2024 16:20		RC/JU	Ok
13	P4739-16	TP-11	BE101555.D	8 Nov 2024 16:55		RC/JU	Ok
14	P4739-04	TP-14	BE101556.D	8 Nov 2024 17:31		RC/JU	Ok
15	P4739-04MS	TP-14MS	BE101557.D	8 Nov 2024 18:07		RC/JU	Ok,M
16	P4739-04MSD	TP-14MSD	BE101558.D	8 Nov 2024 18:43		RC/JU	Ok,M
17	P4732-02	PPE-COMP	BE101559.D	8 Nov 2024 19:19		RC/JU	Ok
18	P4722-14	WC-3(0-6)	BE101560.D	8 Nov 2024 19:54		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110824

Review By	yogesh	Review On	11/10/2024 11:38:05 PM		
Supervise By	mohammad	Supervise On	11/11/2024 12:24:16 AM		
SubDirectory	BE110824	HP Acquire Method	BNA_E	HP Processing Method	be110624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4722-09	WC-2(0-6)	BE101561.D	8 Nov 2024 20:30		RC/JU	Ok
20	P4722-04	WC-1(0-6)	BE101562.D	8 Nov 2024 21:06		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM		
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM		
SubDirectory	BF110524	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/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	BF140230.D	05 Nov 2024 11:56		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140231.D	05 Nov 2024 12:26		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140232.D	05 Nov 2024 12:52	Compound#32,54,65 Removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF140233.D	05 Nov 2024 13:18	Compound#54 Kept on LR	RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF140234.D	05 Nov 2024 13:45		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140235.D	05 Nov 2024 14:11	Calibration Good for DOD & 625.1 except for Benzidine	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF140236.D	05 Nov 2024 14:37	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF140237.D	05 Nov 2024 15:03		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140238.D	05 Nov 2024 15:30		RC/JU	Ok,M
10	SSTDICV040	ICVBF110524	BF140239.D	05 Nov 2024 16:07		RC/JU	Ok
11	PB164366BL	PB164366BL	BF140240.D	05 Nov 2024 16:37		RC/JU	Ok
12	P4368-02	LOQ-SOIL-02-QT4-202	BF140241.D	05 Nov 2024 17:03	LOQ-SOIL-5 ppm	RC/JU	Ok
13	P4368-02	LOQ-SOIL-02-QT4-202	BF140242.D	05 Nov 2024 17:30	LOQ-SOIL-10 PPM (Used for All compounds except compounds#54,77)	RC/JU	Ok,M
14	P4368-08	LOQ-WATER-02-QT4-2	BF140243.D	05 Nov 2024 17:56	LOQ-Water-5 ppm	RC/JU	Ok,M
15	P4368-02	LOQ-SOIL-02-QT4-202	BF140244.D	05 Nov 2024 18:22	LOQ-SOIL-5 ppm, Already Analyzed	RC/JU	Not Ok
16	P4368-08	LOQ-WATER-02-QT4-2	BF140245.D	05 Nov 2024 18:49	LOQ-Water-10 ppm, Internal Standard Fail	RC/JU	Not Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110524

Review By	yogesh	Review On	11/6/2024 3:09:46 AM		
Supervise By	mohammad	Supervise On	11/6/2024 3:16:35 AM		
SubDirectory	BF110524	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4368-01	LOD-MDL-SOIL-01-QT	BF140246.D	05 Nov 2024 19:15	LOD-MDL-SOIL- 4 ppm	RC/JU	Ok
18	P4368-01	LOD-MDL-SOIL-01-QT	BF140247.D	05 Nov 2024 19:41	LOD-MDL-SOIL- 8 ppm	RC/JU	Ok,M
19	P4368-07	LOD-MDL-WATER-01-(	BF140248.D	05 Nov 2024 20:07	LOD-MDL-WATER- 4 ppm	RC/JU	Ok,M
20	P4368-07	LOD-MDL-WATER-01-(	BF140249.D	05 Nov 2024 20:34	LOD-MDL-WATER- 8 ppm	RC/JU	Ok,M
21	PB164369BL	PB164369BL	BF140250.D	05 Nov 2024 21:00		RC/JU	Ok
22	SSTDCCC040	SSTDCCC040EC	BF140251.D	05 Nov 2024 21:26		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110824

Review By	yogesh	Review On	11/10/2024 11:36:46 PM		
Supervise By	mohammad	Supervise On	11/11/2024 12:24:00 AM		
SubDirectory	BF110824	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/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	BF140285.D	08 Nov 2024 09:09		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140286.D	08 Nov 2024 09:35		RC/JU	Ok,M
3	PB164765BL	PB164765BL	BF140287.D	08 Nov 2024 10:02		RC/JU	Ok
4	PB164750BS	PB164750BS	BF140288.D	08 Nov 2024 10:28		RC/JU	Ok,M
5	PB164680BL	PB164680BL	BF140289.D	08 Nov 2024 10:55		RC/JU	Ok
6	PB164680BS	PB164680BS	BF140290.D	08 Nov 2024 11:22		RC/JU	Ok,M
7	P4732-01	PPE-COMP	BF140291.D	08 Nov 2024 11:54	Internal standard fail	RC/JU	Ok
8	P4694-05RE	Z-04RE	BF140292.D	08 Nov 2024 12:21	Internal standard fail	RC/JU	Confirms
9	P4720-01DL	JC-701-COMP-01DL	BF140293.D	08 Nov 2024 12:47		RC/JU	Ok
10	P4695-01DL	Z-01DL	BF140294.D	08 Nov 2024 13:13		RC/JU	Ok,M
11	P4739-01	TP-14	BF140295.D	08 Nov 2024 13:40	Internal standard fail	RC/JU	Ok
12	P4694-01DL	Z-03ADL	BF140296.D	08 Nov 2024 14:06	Internal standard fail	RC/JU	Ok,M
13	P4739-05	BP-G2	BF140297.D	08 Nov 2024 14:32	Internal standard fail	RC/JU	Ok
14	P4739-09	BP-B2	BF140298.D	08 Nov 2024 14:58	Internal Standard Fail, Need 5X Dilution	RC/JU	Dilution
15	P4737-01	TP2	BF140299.D	08 Nov 2024 15:24	Internal standard fail	RC/JU	Ok
16	P4737-01MS	TP2MS	BF140300.D	08 Nov 2024 15:51	Internal standard fail	RC/JU	Ok
17	P4737-01MSD	TP2MSD	BF140301.D	08 Nov 2024 16:17	Internal standard fail	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110824

Review By	yogesh	Review On	11/10/2024 11:36:46 PM		
Supervise By	mohammad	Supervise On	11/11/2024 12:24:00 AM		
SubDirectory	BF110824	HP Acquire Method	BNA_F	HP Processing Method	bf110524

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P4738-01	72-12018	BF140302.D	08 Nov 2024 16:43	Internal standard fail	RC/JU	ReRun
19	P4722-08	WC-2(0-6)	BF140303.D	08 Nov 2024 17:10	Internal standard fail, Need 2X Dilution	RC/JU	Dilution
20	P4739-13	TP-11	BF140304.D	08 Nov 2024 17:36	Internal Standard Fail	RC/JU	Ok,M
21	P4722-03	WC-1(0-6)	BF140305.D	08 Nov 2024 18:03	Internal Standard Fail	RC/JU	Ok,M
22	P4756-01	BP-B4	BF140306.D	08 Nov 2024 18:29	Internal Standard Fail	RC/JU	Ok
23	P4756-01MS	BP-B4MS	BF140307.D	08 Nov 2024 18:55	Internal Standard Fail	RC/JU	Ok
24	P4756-01MSD	BP-B4MSD	BF140308.D	08 Nov 2024 19:22	Internal Standard Fail	RC/JU	Ok
25	P4768-01	B-3-1	BF140309.D	08 Nov 2024 19:48	Internal Standard Fail	RC/JU	Ok
26	P4768-06	B-6-2	BF140310.D	08 Nov 2024 20:14	Internal standard fail, Need 2X Dilution	RC/JU	Dilution

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111124

Review By	yogesh	Review On	11/12/2024 1:20:41 AM		
Supervise By	mohammad	Supervise On	11/13/2024 3:15:56 AM		
SubDirectory	BF111124	HP Acquire Method	BNA_F	HP Processing Method	bf111124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/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	BF140311.D	11 Nov 2024 12:24		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140312.D	11 Nov 2024 12:55		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140313.D	11 Nov 2024 13:21	Compound #41,54 removed from 5ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF140314.D	11 Nov 2024 13:48		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF140315.D	11 Nov 2024 14:14		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140316.D	11 Nov 2024 14:40	The Calibration is Good For 8270 DOD Except com#69,77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF140317.D	11 Nov 2024 15:07	Com#69,77 Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF140318.D	11 Nov 2024 15:34		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140319.D	11 Nov 2024 16:00	Compound #9 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBF111124	BF140320.D	11 Nov 2024 16:30		RC/JU	Ok,M
11	PB164711BL	PB164711BL	BF140321.D	11 Nov 2024 17:01		RC/JU	Ok
12	PB164848BS	PB164848BS	BF140322.D	11 Nov 2024 17:32		RC/JU	Ok,M
13	PB164793TB	PB164793TB	BF140323.D	11 Nov 2024 17:59		RC/JU	Ok
14	P4771-06	P-1	BF140324.D	11 Nov 2024 18:25		RC/JU	Ok
15	P4771-08	P-2	BF140325.D	11 Nov 2024 18:52		RC/JU	Ok
16	P4788-04	BP-G3	BF140326.D	11 Nov 2024 19:18		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111124

Review By	yogesh	Review On	11/12/2024 1:20:41 AM		
Supervise By	mohammad	Supervise On	11/13/2024 3:15:56 AM		
SubDirectory	BF111124	HP Acquire Method	BNA_F	HP Processing Method	bf111124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12326,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4789-04	BP-F21	BF140327.D	11 Nov 2024 19:44		RC/JU	Ok
18	P4792-06	OILY-STONE-DRUM	BF140328.D	11 Nov 2024 20:10		RC/JU	Ok
19	P4798-04	MH-6	BF140329.D	11 Nov 2024 20:36		RC/JU	Ok
20	P4718-03	WB-307-SB02	BF140330.D	11 Nov 2024 21:03		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 11/06/2024 **Time :** 16:45

End Prep Date : 11/07/2024 **Time :** 09:35

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 23 °C

TCLP Technician Signature :

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	SD / Cold Room	/ Metals
	Preparation Group	Analysis Group / GC

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-04	WC-1(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-09	WC-2(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-14	WC-3(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4732-02	PPE-COMP	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164694TB	LEB694	N/A	N/A	N/A	N/A	N/A	N/A

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TCLP Fluid Determination

PB164694

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4718-03	WB-307-SB02	5.02	96.5	8.4	3.0	#1	4.94
P4719-03	BAYAVE-STOCKPILE	5.01	96.5	8.4	3.0	#1	4.94
P4720-05	JC-701-COMP-01	5.02	96.5	6.0	2.0	#1	4.94
P4722-04	WC-1(0-6)	5.03	96.5	9.4	4.0	#1	4.94
P4722-09	WC-2(0-6)	5.02	96.5	9.0	3.5	#1	4.94
P4722-14	WC-3(0-6)	5.01	96.5	8.6	3.5	#1	4.94
P4732-02	PPE-COMP	5.00	96.5	8.4	3.0	#1	4.94
P4738-02	72-12018	5.02	96.5	7.0	2.5	#1	4.94
P4739-04	TP-14	5.03	96.5	7.2	2.5	#1	4.94
P4739-08	BP-G2	5.04	96.5	8.0	3.0	#1	4.94
P4739-12	BP-B2	5.02	96.5	7.6	2.5	#1	4.94
P4739-16	TP-11	5.01	96.5	10.0	4.0	#1	4.94
PB164694TB	LEB694	N/A	N/A	N/A	N/A	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4719 **WorkList ID :** 185149 **Department :** TCLP Extraction **Date :** 11-06-2024 07:55:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-03	WB-307-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L21	11/04/2024	1311
P4719-03	BAYAVE-STOCKPILE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K21	11/05/2024	1311
P4720-05	JC-701-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K31	11/05/2024	1311
P4722-04	WC-1(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4722-09	WC-2(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4722-14	WC-3(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4732-02	PPE-COMP	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4738-02	72-12018	Solid	TCLP Extraction	Cool 4 deg C	FURI01	L11	11/06/2024	1311
P4739-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L23	11/06/2024	1311
P4739-08	BP-G2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-12	BP-B2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-16	TP-11	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311

Date/Time 11/06/24 16:10

Raw Sample Received by:

Raw Sample Relinquished by: SM

Date/Time 11/06/24 18:00

Raw Sample Received by: SM

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164765

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 11/07/2024

Extraction Start Time : 11:30

Extraction End Date : 11/07/2024

Extraction End Time : 16:25

Concentration By: RS

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
Methylene Chloride	N/A	E3823
Baked Na2SO4	N/A	EP2556
10N NaoH	N/A	EP2550
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
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. p H Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24	RP (Ext Lab)	RC/SVOC
16:30	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164765

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/07/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164694TB	PB164694TB	TCLP BNA	100	6	RUPESH	rajesh	1			SEP-01
PB164765BL	PB164765BL	TCLP BNA	1000	6	RUPESH	rajesh	1			2
PB164765BS	PB164765BS	TCLP BNA	1000	6	RUPESH	rajesh	1			3
P4718-03	WB-307-SB02	TCLP BNA	100	6	RUPESH	rajesh	1	A		4
P4719-03	BAYAVE-STOCKPILE	TCLP BNA	100	6	RUPESH	rajesh	1	A		5
P4720-05	JC-701-COMP-01	TCLP BNA	100	6	RUPESH	rajesh	1	A		6
P4722-04	WC-1(0-6)	TCLP BNA	100	6	RUPESH	rajesh	1	A		7
P4722-09	WC-2(0-6)	TCLP BNA	100	6	RUPESH	rajesh	1	A		8
P4722-14	WC-3(0-6)	TCLP BNA	100	6	RUPESH	rajesh	1	A		9
P4732-02	PPE-COMP	TCLP BNA	100	6	RUPESH	rajesh	1	A		10
P4738-02	72-12018	TCLP BNA	100	6	RUPESH	rajesh	1	A		11
P4739-04	TP-14	TCLP BNA	100	6	RUPESH	rajesh	1	A		12
P4739-04MS	TP-14MS	TCLP BNA	100	6	RUPESH	rajesh	1	A		13
P4739-04MSD	TP-14MSD	TCLP BNA	100	6	RUPESH	rajesh	1	A		14
P4739-08	BP-G2	TCLP BNA	100	6	RUPESH	rajesh	1	A		15
P4739-12	BP-B2	TCLP BNA	100	6	RUPESH	rajesh	1	A		16
P4739-16	TP-11	TCLP BNA	100	6	RUPESH	rajesh	1	A		17

* **Extracts relinquished on the same date as received.**

11/7/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

11/10/2025
11:00

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

LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP BNA	8270E		11/07/24	11/11/24	

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

Hit Summary Sheet
SW-846

SDG No.: P4718 **Order ID:** P4718

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	78 Decanted:
Sample Wt/Vol:	30.06 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
PO107740.D	1	11/06/24 09:10	11/06/24 15:35	PB164700

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	21.8	ug/kg
11104-28-2	Aroclor-1221	8.20	U	8.20	21.8	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	21.8	ug/kg
53469-21-9	Aroclor-1242	4.30	U	4.30	21.8	ug/kg
12672-29-6	Aroclor-1248	10.1	U	10.1	21.8	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	21.8	ug/kg
37324-23-5	Aroclor-1262	5.80	U	5.80	21.8	ug/kg
11100-14-4	Aroclor-1268	4.40	U	4.40	21.8	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	21.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.5		30 (32) - 150 (144)	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.1		30 (32) - 150 (175)	66%	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
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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	77.6 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107761.D	1	11/06/24 09:10	11/06/24 23:02	PB164700

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	21.9	ug/kg
11104-28-2	Aroclor-1221	8.30	U	8.30	21.9	ug/kg
11141-16-5	Aroclor-1232	4.40	U	4.40	21.9	ug/kg
53469-21-9	Aroclor-1242	4.40	U	4.40	21.9	ug/kg
12672-29-6	Aroclor-1248	10.2	U	10.2	21.9	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	21.9	ug/kg
37324-23-5	Aroclor-1262	5.90	U	5.90	21.9	ug/kg
11100-14-4	Aroclor-1268	4.40	U	4.40	21.9	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	21.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		30 (32) - 150 (144)	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		30 (32) - 150 (175)	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

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	450 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107755.D	1	11/06/24 08:25	11/06/24 20:41	PB164704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.17	U	0.17	0.56	ug/L
11104-28-2	Aroclor-1221	0.26	U	0.26	0.56	ug/L
11141-16-5	Aroclor-1232	0.41	U	0.41	0.56	ug/L
53469-21-9	Aroclor-1242	0.18	U	0.18	0.56	ug/L
12672-29-6	Aroclor-1248	0.13	U	0.13	0.56	ug/L
11097-69-1	Aroclor-1254	0.12	U	0.12	0.56	ug/L
37324-23-5	Aroclor-1262	0.16	U	0.16	0.56	ug/L
11100-14-4	Aroclor-1268	0.13	U	0.13	0.56	ug/L
11096-82-5	Aroclor-1260	0.17	U	0.17	0.56	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.9		30 (10) - 150 (157)	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.8		30 (10) - 150 (173)	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: P4718

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-PO107183.D	PIBLK-PO107183.D	Tetrachloro-m-xylene	1	20	22.5	112		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.4	117		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	22.1	110		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.8	114		70 (60)	130 (140)
I.BLK-PO107730.D	PIBLK-PO107730.D	Tetrachloro-m-xylene	1	20	19.9	100		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.1	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.2	111		70 (60)	130 (140)
PB164700BL	PB164700BL	Tetrachloro-m-xylene	1	20	21.5	108		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.9	114		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.5	108		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	24.1	121		30 (32)	150 (175)
PB164700BS	PB164700BS	Tetrachloro-m-xylene	1	20	21.6	108		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.5	112		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.3	101		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	23.5	117		30 (32)	150 (175)
P4706-01MS	TR-04-110424MS	Tetrachloro-m-xylene	1	20	16.1	81		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	17.9	89		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	16.6	83		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	14.7	74		30 (32)	150 (175)
P4706-01MSD	TR-04-110424MSD	Tetrachloro-m-xylene	1	20	15.4	77		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	17.2	86		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	16.4	82		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	13.8	69		30 (32)	150 (175)
P4718-01	WB-307-SB01	Tetrachloro-m-xylene	1	20	14.9	75		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	13.1	66		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	18.5	93		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	11.0	55		30 (32)	150 (175)
I.BLK-PO107745.D	PIBLK-PO107745.D	Tetrachloro-m-xylene	1	20	19.2	96		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	18.8	94		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.0	100		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.1	91		70 (60)	130 (140)
PB164704BL	PB164704BL	Tetrachloro-m-xylene	1	20	19.0	95		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	19.0	95		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	19.8	99		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	18.4	92		30 (10)	150 (173)
PB164704BS	PB164704BS	Tetrachloro-m-xylene	1	20	18.7	93		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	18.8	94		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.7	93		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	18.5	92		30 (10)	150 (173)
PB164704BSD	PB164704BSD	Tetrachloro-m-xylene	1	20	19.6	98		30 (10)	150 (157)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
PB164704BSD	PB164704BSD	Decachlorobiphenyl	1	20	19.5	98		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	19.3	97		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	19.3	97		30 (10)	150 (173)
P4718-04	WB-307-SW	Tetrachloro-m-xylene	1	20	18.2	91		30 (10)	150 (157)
		Decachlorobiphenyl	1	20	17.6	88		30 (10)	150 (173)
		Tetrachloro-m-xylene	2	20	18.9	94		30 (10)	150 (157)
		Decachlorobiphenyl	2	20	18.8	94		30 (10)	150 (173)
I.BLK-PO107760.D	PIBLK-PO107760.D	Tetrachloro-m-xylene	1	20	20.1	101		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	20.2	101		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.6	113		70 (60)	130 (140)
P4718-02	WB-307-SB02	Tetrachloro-m-xylene	1	20	20.7	104		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	19.0	95		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.2	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	21.0	105		30 (32)	150 (175)
I.BLK-PO107767.D	PIBLK-PO107767.D	Tetrachloro-m-xylene	1	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.1	106		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	20.7	104		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	22.6	113		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO107736.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:	**TR-04-110424MS**											
P4706-01MS	AR1016	178.1	0	143	ug/kg	80				40 (55)	140 (146)	
	AR1260	178.1	0	142	ug/kg	80				40 (45)	140 (144)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PO107737.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:	**TR-04-110424MSD**											
P4706-01MSD	AR1016	178	0	139	ug/kg	78		3		40 (55)	140 (146)	30 (20)
	AR1260	178	0	135	ug/kg	76		5		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.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO107732.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164700BS	AR1016	166.5	163	ug/kg	98				40 (71)	140 (120)	
	AR1260	166.5	168	ug/kg	101				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO107747.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164704BS	AR1016	5	4.20	ug/L	84				40 (61)	140 (112)	
	AR1260	5	4.30	ug/L	86				40 (66)	140 (113)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PO107748.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164704BSD	AR1016	5	4.50	ug/L	90	7			40 (61)	140 (112)	20 (20)
	AR1260	5	4.50	ug/L	90	5			40 (66)	140 (113)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164700BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164700BL Lab File ID: PO107731.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/06/2024

Date Analyzed (1): 11/06/2024 Date Analyzed (2): 11/06/2024

Time Analyzed (1): 13:10 Time Analyzed (2): 13:10

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

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
PB164700BS	PB164700BS	PO107732.D	11/06/2024	11/06/2024
TR-04-110424MS	P4706-01MS	PO107736.D	11/06/2024	11/06/2024
TR-04-110424MSD	P4706-01MSD	PO107737.D	11/06/2024	11/06/2024
WB-307-SB01	P4718-01	PO107740.D	11/06/2024	11/06/2024
WB-307-SB02	P4718-02	PO107761.D	11/06/2024	11/06/2024

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164704BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164704BL Lab File ID: PO107746.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/06/2024

Date Analyzed (1): 11/06/2024 Date Analyzed (2): 11/06/2024

Time Analyzed (1): 18:15 Time Analyzed (2): 18:15

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

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
PB164704BS	PB164704BS	PO107747.D	11/06/2024	11/06/2024
PB164704BSD	PB164704BSD	PO107748.D	11/06/2024	11/06/2024
WB-307-SW	P4718-04	PO107755.D	11/06/2024	11/06/2024

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:	PB164700BL	SDG No.:	P4718
Lab Sample ID:	PB164700BL	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
PO107731.D	1	11/06/24 09:10	11/06/24 13:10	PB164700

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	21.5		30 (32) - 150 (144)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.1		30 (32) - 150 (175)	121%	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:	PB164704BL	SDG No.:	P4718
Lab Sample ID:	PB164704BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107746.D	1	11/06/24 08:25	11/06/24 18:15	PB164704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		30 (10) - 150 (157)	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.0		30 (10) - 150 (173)	95%	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:	10/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/15/24
Client Sample ID:	PIBLK-PO107183.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PO107183.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
PO107183.D	1		10/15/24	po101524

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	22.1		70 (60) - 130 (140)	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		70 (60) - 130 (140)	114%	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:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	PIBLK-PO107730.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PO107730.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
PO107730.D	1		11/06/24	PO110624

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	19.9		70 (60) - 130 (140)	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		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:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	PIBLK-PO107745.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PO107745.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
PO107745.D	1		11/06/24	PO110624

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	18.1		70 (60) - 130 (140)	91%	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:	11/06/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/06/24
Client Sample ID:	PIBLK-PO107760.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PO107760.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
PO107760.D	1		11/06/24	PO110624

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	20.1		70 (60) - 130 (140)	101%	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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/07/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/07/24
Client Sample ID:	PIBLK-PO107767.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PO107767.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
PO107767.D	1		11/07/24	PO110624

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	20.6		70 (60) - 130 (140)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		70 (60) - 130 (140)	106%	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:	PB164700BS	SDG No.:	P4718
Lab Sample ID:	PB164700BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 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
PO107732.D	1	11/06/24 09:10	11/06/24 13:26	PB164700

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	163		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	168		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.6		30 (32) - 150 (144)	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.5		30 (32) - 150 (175)	117%	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:	PB164704BS	SDG No.:	P4718
Lab Sample ID:	PB164704BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107747.D	1	11/06/24 08:25	11/06/24 18:31	PB164704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.20		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.30		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.7		30 (10) - 150 (157)	93%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.8		30 (10) - 150 (173)	94%	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:	PB164704BSD	SDG No.:	P4718
Lab Sample ID:	PB164704BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107748.D	1	11/06/24 08:25	11/06/24 18:47	PB164704

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	4.50		0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.50	ug/L
11096-82-5	Aroclor-1260	4.50		0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		30 (10) - 150 (157)	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		30 (10) - 150 (173)	98%	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/04/24
Client Sample ID:	TR-04-110424MS	SDG No.:	P4718
Lab Sample ID:	P4706-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	93.5 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
PO107736.D	1	11/06/24 09:10	11/06/24 14:30	PB164700

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	143		3.60	18.2	ug/kg
11104-28-2	Aroclor-1221	6.80	U	6.80	18.2	ug/kg
11141-16-5	Aroclor-1232	3.60	U	3.60	18.2	ug/kg
53469-21-9	Aroclor-1242	3.60	U	3.60	18.2	ug/kg
12672-29-6	Aroclor-1248	8.40	U	8.40	18.2	ug/kg
11097-69-1	Aroclor-1254	2.90	U	2.90	18.2	ug/kg
37324-23-5	Aroclor-1262	4.90	U	4.90	18.2	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	18.2	ug/kg
11096-82-5	Aroclor-1260	142		3.10	18.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.6		30 (32) - 150 (144)	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		30 (32) - 150 (175)	89%	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/04/24
Client Sample ID:	TR-04-110424MSD	SDG No.:	P4718
Lab Sample ID:	P4706-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	93.5 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107737.D	1	11/06/24 09:10	11/06/24 14:46	PB164700

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	139		3.60	18.2	ug/kg
11104-28-2	Aroclor-1221	6.80	U	6.80	18.2	ug/kg
11141-16-5	Aroclor-1232	3.60	U	3.60	18.2	ug/kg
53469-21-9	Aroclor-1242	3.60	U	3.60	18.2	ug/kg
12672-29-6	Aroclor-1248	8.40	U	8.40	18.2	ug/kg
11097-69-1	Aroclor-1254	2.90	U	2.90	18.2	ug/kg
37324-23-5	Aroclor-1262	4.90	U	4.90	18.2	ug/kg
11100-14-4	Aroclor-1268	3.70	U	3.70	18.2	ug/kg
11096-82-5	Aroclor-1260	135		3.10	18.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.4		30 (32) - 150 (144)	82%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.2		30 (32) - 150 (175)	86%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1016-2	(2)	5.54	5.55	5.55	5.54	5.54	5.54	5.44	5.64
Aroclor-1016-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1016-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-5	(5)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1260-1	(1)	7.12	7.13	7.13	7.12	7.13	7.13	7.03	7.23
Aroclor-1260-2	(2)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1260-3	(3)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1260-4	(4)	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
Aroclor-1260-5	(5)	8.28	8.28	8.28	8.28	8.28	8.28	8.18	8.38
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1242-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1242-2	(2)	5.55	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1242-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1242-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1248-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1248-2	(2)	5.80	5.80	5.80	5.80	5.80	5.80	5.70	5.90
Aroclor-1248-3	(3)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1248-4	(4)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1254-1	(1)	6.37	6.37	6.38	6.37	6.38	6.37	6.27	6.47
Aroclor-1254-2	(2)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Aroclor-1254-3	(3)	6.96	6.96	6.96	6.96	6.96	6.96	6.86	7.06
Aroclor-1254-4	(4)	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34
Aroclor-1254-5	(5)	7.66	7.66	7.66	7.66	7.66	7.66	7.56	7.76
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1268-1	(1)	8.59	8.59	8.59	8.59	8.59	8.59	8.49	8.69
Aroclor-1268-2	(2)	8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Aroclor-1268-3	(3)	8.91	8.91	8.91	8.91	8.91	8.91	8.81	9.01
Aroclor-1268-4	(4)	9.31	9.31	9.31	9.31	9.31	9.31	9.21	9.41
Aroclor-1268-5	(5)	9.72	9.72	9.72	9.72	9.72	9.72	9.62	9.82

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1016-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1016-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1260-1	(1)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Aroclor-1260-2	(2)	6.39	6.39	6.39	6.39	6.40	6.39	6.29	6.49
Aroclor-1260-3	(3)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1260-4	(4)	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aroclor-1260-5	(5)	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.65	3.64	3.64	3.64	3.54	3.74
Aroclor-1242-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1242-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1242-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-4	(4)	5.00	5.01	5.00	5.01	5.00	5.00	4.90	5.10
Aroclor-1242-5	(5)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.65	3.64	3.64	3.54	3.74
Aroclor-1248-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1248-2	(2)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1248-3	(3)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-5	(5)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1254-1	(1)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Aroclor-1254-2	(2)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1254-3	(3)	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Aroclor-1254-4	(4)	6.30	6.30	6.30	6.31	6.30	6.30	6.20	6.40
Aroclor-1254-5	(5)	6.72	6.72	6.72	6.72	6.72	6.72	6.62	6.82
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.65	3.64	3.64	3.64	3.65	3.64	3.54	3.74
Aroclor-1268-1	(1)	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
Aroclor-1268-2	(2)	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
Aroclor-1268-3	(3)	7.81	7.81	7.81	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-4	(4)	8.10	8.10	8.10	8.10	8.10	8.10	8.00	8.20
Aroclor-1268-5	(5)	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene	3.65	3.64	3.65	3.64	3.65	3.65	3.55	3.75

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

CF 500 = PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	252081604	261702867	271939076	291118488	272229420	269814291	5
Aroclor-1016-2	(2)	373760062	383028583	397887352	419075308	410673320	396884925	5
Aroclor-1016-3	(3)	234678633	244145249	256575754	276405664	244042480	251169556	6
Aroclor-1016-4	(4)	185622493	193848624	202963902	215081552	165543020	192611918	10
Aroclor-1016-5	(5)	176326470	182141932	191487930	203514892	159796500	182653545	9
Aroclor-1260-1	(1)	238480871	246497651	259155974	277220676	271587560	258588546	6
Aroclor-1260-2	(2)	243402558	251747185	264083512	284216460	272650860	263220115	6
Aroclor-1260-3	(3)	167353086	171560129	181491762	195138068	183182660	179745141	6
Aroclor-1260-4	(4)	162125557	166999933	175289716	187582032	185522120	175503872	6
Aroclor-1260-5	(5)	268686175	273623828	283035894	299271412	297351500	284393762	5
Decachlorobiphenyl		2362750210	2427138920	2496479000	2603827440	2376686800	2453376474	4
Tetrachloro-m-xylene		8902656430	9087809293	9285762860	9548006280	8745262400	9113899453	3
Aroclor-1242-1	(1)	207947063	205572916	222208808	238956456	243522880	223641625	8
Aroclor-1242-2	(2)	302439626	299949616	323550412	342804408	348858880	323520588	7
Aroclor-1242-3	(3)	191912697	193178427	209638152	224306728	225847640	208976729	8
Aroclor-1242-4	(4)	150447174	145338196	162797508	173135964	168308740	160005516	7
Aroclor-1242-5	(5)	141009343	143408436	153689098	164623016	179679780	156481935	10
Decachlorobiphenyl		2339420350	2427742867	2492700840	2551827400	2426410200	2447620331	3
Tetrachloro-m-xylene		8860043620	8651743680	9146784160	9504075440	9174828800	9067495140	4
Aroclor-1248-1	(1)	155913014	164800668	175191332	184609772	188867720	173876501	8
Aroclor-1248-2	(2)	222845576	238202488	253637968	270074056	280366620	253025342	9
Aroclor-1248-3	(3)	231904923	246233752	259706092	274388212	266197800	255686156	7
Aroclor-1248-4	(4)	237210289	246633865	260533272	272872732	271860120	257822056	6
Aroclor-1248-5	(5)	236273499	246591072	260733536	276314120	280304600	260043365	7
Decachlorobiphenyl		2339780580	2371533013	2504089680	2566158680	2396701200	2435652631	4
Tetrachloro-m-xylene		8719403610	9119992693	9358904180	9492784200	8995773400	9137371617	3
Aroclor-1254-1	(1)	246822697	256579683	264992242	286189960	289157060	268748328	7
Aroclor-1254-2	(2)	348120894	361641555	373031238	401237980	402995760	377405485	6
Aroclor-1254-3	(3)	336293322	345653409	355909306	378498460	372630440	357796987	5
Aroclor-1254-4	(4)	213138598	220171503	227187688	242530220	244046960	229414994	6
Aroclor-1254-5	(5)	194609638	201069208	205869028	220139672	216546640	207646837	5
Decachlorobiphenyl		2357746210	2401897693	2508594000	2601578200	2359367400	2445836701	4
Tetrachloro-m-xylene		8883763230	9164627320	9184369060	9508828480	8791509400	9106619498	3
Aroclor-1268-1	(1)	351862425	352413819	364622844	381760528	369380480	364008019	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	313096403	314491445	324862806	339637696	320299560	322477582	3
Aroclor-1268-3	(3)	272236453	272760276	282620036	293538700	275661940	279363481	3
Aroclor-1268-4	(4)	112236308	111261111	114714594	116428084	101458340	111219687	5
Aroclor-1268-5	(5)	836674479	833098204	847063314	864357444	781067560	832452200	4
Decachlorobiphenyl		4074190590	4136234160	4241958160	4399826360	4004084600	4171258774	4
Tetrachloro-m-xylene		9139601460	8935957933	9311606620	9495189880	8951901000	9166851379	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

CF 500 = PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	98519363	99934743	102532802	106601384	108740020	103265662	4
Aroclor-1016-2	(2)	140533795	142751421	144315942	146877552	130360060	140967754	5
Aroclor-1016-3	(3)	75819146	77111448	78799028	81783348	80215260	78745646	3
Aroclor-1016-4	(4)	61532960	63413097	65607722	69564368	70423600	66108349	6
Aroclor-1016-5	(5)	78878086	80970861	83522668	86940988	80356660	82133853	4
Aroclor-1260-1	(1)	150450531	152030172	155131756	161942364	156218200	155154605	3
Aroclor-1260-2	(2)	173752920	181526657	184104290	189736236	151457920	176115605	8
Aroclor-1260-3	(3)	168454604	170292340	172108108	175991544	151894120	167748143	6
Aroclor-1260-4	(4)	143637024	144895129	147115166	150514212	137242140	144680734	3
Aroclor-1260-5	(5)	340738400	339782780	336796716	340391952	289493480	329440666	7
Decachlorobiphenyl		2730622670	2745732653	2784792900	2852828640	2594005000	2741596373	3
Tetrachloro-m-xylene		3312014480	3338472613	3349065240	3230716080	2862214000	3218496483	6
Aroclor-1242-1	(1)	80390662	80447493	83937762	87266896	86674240	83743411	4
Aroclor-1242-2	(2)	114487494	111266404	117741916	120667112	114031640	115638913	3
Aroclor-1242-3	(3)	61817452	60461905	64396992	66865868	63624080	63433259	4
Aroclor-1242-4	(4)	60582529	60636219	64384594	68045260	66598220	64049364	5
Aroclor-1242-5	(5)	73763103	75675432	77215916	80736528	80226620	77523520	4
Decachlorobiphenyl		2686985320	2764418280	2764436780	2798541920	2665265400	2735929540	2
Tetrachloro-m-xylene		3315724680	3241948653	3341198040	3335574400	2920075400	3230904235	6
Aroclor-1248-1	(1)	60218805	63038185	64879120	66667236	62402400	63441149	4
Aroclor-1248-2	(2)	85173308	89108361	93061950	96541480	93540340	91485088	5
Aroclor-1248-3	(3)	89257070	93226611	97377878	100891904	96212540	95393201	5
Aroclor-1248-4	(4)	105934439	110533117	114760412	117772688	111691080	112138347	4
Aroclor-1248-5	(5)	102828085	105359652	109801380	114217964	119140640	110269544	6
Decachlorobiphenyl		2669365810	2682497173	2791873700	2836714480	2679938000	2732077833	3
Tetrachloro-m-xylene		3278417600	3389239440	3425836480	3362184040	2965722400	3284279992	6
Aroclor-1254-1	(1)	159855276	163854537	165548332	171717704	162964860	164788142	3
Aroclor-1254-2	(2)	138468840	142269335	144546922	151325972	148203140	144962842	3
Aroclor-1254-3	(3)	227061110	231385951	232213406	238575248	218867080	229620559	3
Aroclor-1254-4	(4)	128242906	130249965	131325350	135207044	122091880	129423429	4
Aroclor-1254-5	(5)	191904554	195153152	195378104	201188864	171636600	191052255	6
Decachlorobiphenyl		2726927150	2738190720	2773447120	2836815760	2598739800	2734824110	3
Tetrachloro-m-xylene		3347799560	3397335627	3354246660	3362236280	2930639600	3278451545	6
Aroclor-1268-1	(1)	419191400	409991492	413863584	410849472	368955300	404570250	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	389672996	380096764	383518208	378699872	334345600	373266688	6
Aroclor-1268-3	(3)	345284332	337828173	339535756	338755760	307004380	333681680	5
Aroclor-1268-4	(4)	129107993	127445005	127285362	129260796	113749480	125369727	5
Aroclor-1268-5	(5)	1049237500	1019311260	1017080130	996315476	856840280	987756929	8
Decachlorobiphenyl		4873889790	4739451973	4823511780	4890043960	4430545400	4751488581	4
Tetrachloro-m-xylene		3440286630	3329771373	3416104800	3331345720	2963806400	3296262985	6

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

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	4.57	4.47	4.67	110010000
		2	4.66	4.56	4.76	78836600
		3	4.73	4.63	4.83	234100000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.73	4.63	4.83	195844000
		2	5.26	5.16	5.36	103025000
		3	5.54	5.44	5.64	179001000
		4	5.70	5.60	5.80	90165400
		5	5.80	5.70	5.90	65903200
Aroclor-1262	500	1	7.74	7.64	7.84	245548000
		2	8.28	8.18	8.38	309420000
		3	8.59	8.49	8.69	209196000
		4	8.68	8.58	8.78	163066000
		5	9.32	9.22	9.42	102764000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

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	3.86	3.76	3.96	34895600
		2	3.94	3.84	4.04	26624800
		3	4.02	3.92	4.12	81218600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.02	3.92	4.12	67327000
		2	4.75	4.65	4.85	63205200
		3	4.92	4.82	5.02	34475000
		4	5.00	4.90	5.10	31466000
		5	5.18	5.08	5.28	33083400
Aroclor-1262	500	1	6.76	6.66	6.86	212876000
		2	7.26	7.16	7.36	363332000
		3	7.54	7.44	7.64	137384000
		4	7.61	7.51	7.71	264574000
		5	8.10	8.00	8.20	112833000

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 09:29 **Initial Calibration Time(s):** 18:27 02:36

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)	5.53	5.52	5.42	5.62	-0.01
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.70	5.60	5.80	-0.01
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.39	7.38	7.28	7.48	-0.01
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	-0.01
Aroclor-1260-4	(4)	7.98	7.97	7.87	8.07	-0.01
Aroclor-1260-5	(5)	8.29	8.28	8.18	8.38	-0.01
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.08	10.06	9.96	10.16	-0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 09:29 **Initial Calibration Time(s):** 18:27 02:36

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)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/06/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107726.D **Time Analyzed:** 09:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.525	5.423	5.623	511.290	500.000	2.3
Aroclor-1016-2	5.547	5.445	5.645	497.460	500.000	-0.5
Aroclor-1016-3	5.610	5.507	5.707	489.050	500.000	-2.2
Aroclor-1016-4	5.707	5.604	5.804	512.950	500.000	2.6
Aroclor-1016-5	6.002	5.899	6.099	511.100	500.000	2.2
Aroclor-1260-1	7.132	7.026	7.226	513.000	500.000	2.6
Aroclor-1260-2	7.389	7.282	7.482	542.700	500.000	8.5
Aroclor-1260-3	7.752	7.643	7.843	537.760	500.000	7.6
Aroclor-1260-4	7.977	7.868	8.068	552.670	500.000	10.5
Aroclor-1260-5	8.291	8.181	8.381	599.200	500.000	19.8
Decachlorobiphenyl	10.079	9.958	10.158	48.100	50.000	-3.8
Tetrachloro-m-xylene	4.373	4.274	4.474	51.680	50.000	3.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/06/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107726.D **Time Analyzed:** 09:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	535.170	500.000	7.0
Aroclor-1016-2	4.743	4.645	4.845	548.800	500.000	9.8
Aroclor-1016-3	4.918	4.821	5.021	527.740	500.000	5.5
Aroclor-1016-4	4.960	4.862	5.062	488.290	500.000	-2.3
Aroclor-1016-5	5.174	5.076	5.276	523.130	500.000	4.6
Aroclor-1260-1	6.204	6.107	6.307	506.050	500.000	1.2
Aroclor-1260-2	6.392	6.294	6.494	533.470	500.000	6.7
Aroclor-1260-3	6.545	6.448	6.648	522.150	500.000	4.4
Aroclor-1260-4	7.017	6.918	7.118	519.510	500.000	3.9
Aroclor-1260-5	7.258	7.159	7.359	552.050	500.000	10.4
Decachlorobiphenyl	8.640	8.539	8.739	54.490	50.000	9.0
Tetrachloro-m-xylene	3.643	3.545	3.745	54.140	50.000	8.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 16:54 **Initial Calibration Time(s):** 18:27 02:36

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)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.70	5.60	5.80	-0.01
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.39	7.38	7.28	7.48	-0.01
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	-0.01
Aroclor-1260-4	(4)	7.98	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.29	8.28	8.18	8.38	-0.01
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.07	10.06	9.96	10.16	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 16:54 **Initial Calibration Time(s):** 18:27 02:36

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)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/06/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107741.D **Time Analyzed:** 16:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.524	5.423	5.623	463.130	500.000	-7.4
Aroclor-1016-2	5.546	5.445	5.645	444.160	500.000	-11.2
Aroclor-1016-3	5.608	5.507	5.707	441.970	500.000	-11.6
Aroclor-1016-4	5.706	5.604	5.804	462.710	500.000	-7.5
Aroclor-1016-5	6.001	5.899	6.099	463.090	500.000	-7.4
Aroclor-1260-1	7.130	7.026	7.226	456.620	500.000	-8.7
Aroclor-1260-2	7.387	7.282	7.482	464.280	500.000	-7.1
Aroclor-1260-3	7.750	7.643	7.843	448.010	500.000	-10.4
Aroclor-1260-4	7.975	7.868	8.068	465.650	500.000	-6.9
Aroclor-1260-5	8.289	8.181	8.381	482.090	500.000	-3.6
Decachlorobiphenyl	10.074	9.958	10.158	43.960	50.000	-12.1
Tetrachloro-m-xylene	4.372	4.274	4.474	52.670	50.000	5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/06/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107741.D **Time Analyzed:** 16:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.723	4.626	4.826	534.360	500.000	6.9
Aroclor-1016-2	4.742	4.645	4.845	554.800	500.000	11.0
Aroclor-1016-3	4.918	4.821	5.021	533.240	500.000	6.6
Aroclor-1016-4	4.959	4.862	5.062	489.970	500.000	-2.0
Aroclor-1016-5	5.173	5.076	5.276	523.370	500.000	4.7
Aroclor-1260-1	6.204	6.107	6.307	496.980	500.000	-0.6
Aroclor-1260-2	6.391	6.294	6.494	518.510	500.000	3.7
Aroclor-1260-3	6.544	6.448	6.648	492.660	500.000	-1.5
Aroclor-1260-4	7.016	6.918	7.118	462.170	500.000	-7.6
Aroclor-1260-5	7.256	7.159	7.359	474.270	500.000	-5.1
Decachlorobiphenyl	8.637	8.539	8.739	41.590	50.000	-16.8
Tetrachloro-m-xylene	3.643	3.545	3.745	53.650	50.000	7.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 21:42 **Initial Calibration Time(s):** 18:27 02:36

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)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.39	7.38	7.28	7.48	-0.01
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	-0.01
Aroclor-1260-4	(4)	7.98	7.97	7.87	8.07	-0.01
Aroclor-1260-5	(5)	8.29	8.28	8.18	8.38	-0.01
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.08	10.06	9.96	10.16	-0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/06/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 21:42 **Initial Calibration Time(s):** 18:27 02:36

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)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/06/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107756.D **Time Analyzed:** 21:42

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.523	5.423	5.623	521.970	500.000	4.4
Aroclor-1016-2	5.546	5.445	5.645	513.220	500.000	2.6
Aroclor-1016-3	5.608	5.507	5.707	503.460	500.000	0.7
Aroclor-1016-4	5.705	5.604	5.804	530.050	500.000	6.0
Aroclor-1016-5	6.001	5.899	6.099	533.120	500.000	6.6
Aroclor-1260-1	7.132	7.026	7.226	487.030	500.000	-2.6
Aroclor-1260-2	7.388	7.282	7.482	514.800	500.000	3.0
Aroclor-1260-3	7.751	7.643	7.843	532.710	500.000	6.5
Aroclor-1260-4	7.976	7.868	8.068	568.210	500.000	13.6
Aroclor-1260-5	8.290	8.181	8.381	561.040	500.000	12.2
Decachlorobiphenyl	10.077	9.958	10.158	47.560	50.000	-4.9
Tetrachloro-m-xylene	4.372	4.274	4.474	52.470	50.000	4.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/06/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107756.D **Time Analyzed:** 21:42

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	531.640	500.000	6.3
Aroclor-1016-2	4.743	4.645	4.845	551.000	500.000	10.2
Aroclor-1016-3	4.919	4.821	5.021	530.220	500.000	6.0
Aroclor-1016-4	4.960	4.862	5.062	490.360	500.000	-1.9
Aroclor-1016-5	5.174	5.076	5.276	523.760	500.000	4.8
Aroclor-1260-1	6.205	6.107	6.307	511.170	500.000	2.2
Aroclor-1260-2	6.392	6.294	6.494	542.160	500.000	8.4
Aroclor-1260-3	6.546	6.448	6.648	529.960	500.000	6.0
Aroclor-1260-4	7.017	6.918	7.118	530.010	500.000	6.0
Aroclor-1260-5	7.258	7.159	7.359	565.090	500.000	13.0
Decachlorobiphenyl	8.639	8.539	8.739	54.600	50.000	9.2
Tetrachloro-m-xylene	3.643	3.545	3.745	53.910	50.000	7.8

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/07/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 00:20 **Initial Calibration Time(s):** 18:27 02:36

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)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.55	5.55	5.45	5.65	0.00
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.71	5.70	5.60	5.80	-0.01
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.39	7.38	7.28	7.48	-0.01
Aroclor-1260-3	(3)	7.75	7.74	7.64	7.84	-0.01
Aroclor-1260-4	(4)	7.98	7.97	7.87	8.07	-0.01
Aroclor-1260-5	(5)	8.29	8.28	8.18	8.38	-0.01
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.08	10.06	9.96	10.16	-0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/07/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 00:20 **Initial Calibration Time(s):** 18:27 02:36

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)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/07/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107763.D **Time Analyzed:** 00:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.523	5.423	5.623	547.580	500.000	9.5
Aroclor-1016-2	5.546	5.445	5.645	529.750	500.000	6.0
Aroclor-1016-3	5.608	5.507	5.707	527.770	500.000	5.6
Aroclor-1016-4	5.706	5.604	5.804	552.330	500.000	10.5
Aroclor-1016-5	6.001	5.899	6.099	549.630	500.000	9.9
Aroclor-1260-1	7.131	7.026	7.226	525.580	500.000	5.1
Aroclor-1260-2	7.388	7.282	7.482	540.410	500.000	8.1
Aroclor-1260-3	7.750	7.643	7.843	537.840	500.000	7.6
Aroclor-1260-4	7.976	7.868	8.068	568.050	500.000	13.6
Aroclor-1260-5	8.290	8.181	8.381	579.820	500.000	16.0
Decachlorobiphenyl	10.077	9.958	10.158	48.730	50.000	-2.5
Tetrachloro-m-xylene	4.372	4.274	4.474	53.790	50.000	7.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/07/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107763.D **Time Analyzed:** 00:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.723	4.626	4.826	549.090	500.000	9.8
Aroclor-1016-2	4.742	4.645	4.845	562.330	500.000	12.5
Aroclor-1016-3	4.918	4.821	5.021	540.540	500.000	8.1
Aroclor-1016-4	4.960	4.862	5.062	495.890	500.000	-0.8
Aroclor-1016-5	5.173	5.076	5.276	536.380	500.000	7.3
Aroclor-1260-1	6.204	6.107	6.307	525.020	500.000	5.0
Aroclor-1260-2	6.392	6.294	6.494	553.370	500.000	10.7
Aroclor-1260-3	6.545	6.448	6.648	536.080	500.000	7.2
Aroclor-1260-4	7.016	6.918	7.118	536.010	500.000	7.2
Aroclor-1260-5	7.257	7.159	7.359	565.900	500.000	13.2
Decachlorobiphenyl	8.639	8.539	8.739	55.530	50.000	11.1
Tetrachloro-m-xylene	3.642	3.545	3.745	55.140	50.000	10.3

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

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	10/15/2024	18:08	PO107183.D	10.06	4.37
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	10.06	4.37
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	10.06	4.37
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	10.06	4.37
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	10.06	4.37
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	10.06	4.37
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	10.06	4.37
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	10.06	4.37
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	10.06	4.37
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	10.06	4.37
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	10.06	4.37
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	10.06	4.37
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	10.06	4.37
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	10.06	4.37
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	10.06	4.37
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	10.06	4.37
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	10.06	4.37
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	10.06	4.37
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	10.06	4.37
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	10.06	4.37
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	10.06	4.37
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	10.06	4.37
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	10.06	4.37
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	10.06	4.37
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	10.06	4.37
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	10.06	4.37
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	10.06	4.37
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	10.06	4.37
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	10.06	4.37
AR1660CCC500	AR1660CCC500	11/06/2024	09:29	PO107726.D	10.08	4.37
I.BLK	I.BLK	11/06/2024	10:33	PO107730.D	10.07	4.37
PB164700BL	PB164700BL	11/06/2024	13:10	PO107731.D	10.08	4.37
PB164700BS	PB164700BS	11/06/2024	13:26	PO107732.D	10.08	4.37
TR-04-110424MS	P4706-01MS	11/06/2024	14:30	PO107736.D	10.08	4.37
TR-04-110424MSD	P4706-01MSD	11/06/2024	14:46	PO107737.D	10.08	4.37
WB-307-SB01	P4718-01	11/06/2024	15:35	PO107740.D	10.08	4.37
AR1660CCC500	AR1660CCC500	11/06/2024	16:54	PO107741.D	10.07	4.37
I.BLK	I.BLK	11/06/2024	17:59	PO107745.D	10.07	4.37
PB164704BL	PB164704BL	11/06/2024	18:15	PO107746.D	10.07	4.37
PB164704BS	PB164704BS	11/06/2024	18:31	PO107747.D	10.07	4.37
PB164704BSD	PB164704BSD	11/06/2024	18:47	PO107748.D	10.08	4.37
WB-307-SW	P4718-04	11/06/2024	20:41	PO107755.D	10.08	4.37

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Analytical Sequence

AR1660CCC500	AR1660CCC500	11/06/2024	21:42	PO107756.D	10.08	4.37
I.BLK	I.BLK	11/06/2024	22:46	PO107760.D	10.08	4.37
WB-307-SB02	P4718-02	11/06/2024	23:02	PO107761.D	10.08	4.37
AR1660CCC500	AR1660CCC500	11/07/2024	00:20	PO107763.D	10.08	4.37
I.BLK	I.BLK	11/07/2024	01:25	PO107767.D	10.08	4.37

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

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	10/15/2024	18:08	PO107183.D	8.64	3.64
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	8.64	3.64
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	8.64	3.64
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	8.64	3.65
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	8.64	3.64
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	8.64	3.64
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	8.64	3.64
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	8.64	3.64
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	8.64	3.64
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	8.64	3.64
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	8.64	3.64
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	8.64	3.65
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	8.64	3.64
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	8.64	3.64
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	8.64	3.64
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	8.64	3.64
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	8.64	3.64
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	8.64	3.64
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	8.64	3.65
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	8.64	3.64
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	8.64	3.64
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	8.64	3.64
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	8.64	3.65
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	8.64	3.64
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	8.64	3.65
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	8.64	3.64
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	8.64	3.65
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	8.64	3.64
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	8.64	3.65
AR1660CCC500	AR1660CCC500	11/06/2024	09:29	PO107726.D	8.64	3.64
I.BLK	I.BLK	11/06/2024	10:33	PO107730.D	8.64	3.64
PB164700BL	PB164700BL	11/06/2024	13:10	PO107731.D	8.64	3.64
PB164700BS	PB164700BS	11/06/2024	13:26	PO107732.D	8.64	3.64
TR-04-110424MS	P4706-01MS	11/06/2024	14:30	PO107736.D	8.64	3.64
TR-04-110424MSD	P4706-01MSD	11/06/2024	14:46	PO107737.D	8.64	3.64
WB-307-SB01	P4718-01	11/06/2024	15:35	PO107740.D	8.64	3.64
AR1660CCC500	AR1660CCC500	11/06/2024	16:54	PO107741.D	8.64	3.64
I.BLK	I.BLK	11/06/2024	17:59	PO107745.D	8.64	3.64
PB164704BL	PB164704BL	11/06/2024	18:15	PO107746.D	8.64	3.64
PB164704BS	PB164704BS	11/06/2024	18:31	PO107747.D	8.64	3.64
PB164704BSD	PB164704BSD	11/06/2024	18:47	PO107748.D	8.64	3.64
WB-307-SW	P4718-04	11/06/2024	20:41	PO107755.D	8.64	3.64

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Analytical Sequence

AR1660CCC500	AR1660CCC500	11/06/2024	21:42	PO107756.D	8.64	3.64
I.BLK	I.BLK	11/06/2024	22:46	PO107760.D	8.64	3.64
WB-307-SB02	P4718-02	11/06/2024	23:02	PO107761.D	8.64	3.64
AR1660CCC500	AR1660CCC500	11/07/2024	00:20	PO107763.D	8.64	3.64
I.BLK	I.BLK	11/07/2024	01:25	PO107767.D	8.64	3.64

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164700BS

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164700BS Date(s) Analyzed: 11/06/2024 11/06/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO107732.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.524	5.474	5.574	166		
	2	5.546	5.496	5.596	160		
	3	5.609	5.559	5.659	159		
COLUMN 1	4	5.706	5.656	5.756	167		
	5	6.001	5.951	6.051	163	163	
	1	4.724	4.674	4.774	162		
	2	4.743	4.693	4.793	168		
	3	4.919	4.869	4.969	161		
	4	4.96	4.91	5.01	146		
COLUMN 2	5	5.174	5.124	5.224	155	158	3.12
Aroclor-1260	1	7.131	7.081	7.181	171		
	2	7.388	7.338	7.438	178		
	3	7.75	7.7	7.8	157		
COLUMN 1	4	7.975	7.925	8.025	174		
	5	8.29	8.24	8.34	160	168	
	1	6.205	6.155	6.255	162		
	2	6.393	6.343	6.443	170		
	3	6.545	6.495	6.595	166		
	4	7.016	6.966	7.066	144		
COLUMN 2	5	7.258	7.208	7.308	154	159	5.5

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
TR-04-110424MS

Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab Sample ID: P4706-01MS Date(s) Analyzed: 11/06/2024 11/06/2024
Instrument ID (1): ECD_O Instrument ID (2): ECD_O
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PO107736.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.523	5.473	5.573	145		
	2	5.546	5.496	5.596	133		
	3	5.608	5.558	5.658	136		
COLUMN 1	4	5.705	5.655	5.755	148		
	5	5.999	5.949	6.049	131	139	
	1	4.723	4.673	4.773	150		
	2	4.742	4.692	4.792	152		
	3	4.918	4.868	4.968	144		
	4	4.96	4.91	5.01	132		
COLUMN 2	5	5.172	5.122	5.222	134	143	2.84
Aroclor-1260	1	7.13	7.08	7.18	139		
	2	7.387	7.337	7.437	155		
	3	7.749	7.699	7.799	123		
COLUMN 1	4	7.973	7.923	8.023	150		
	5	8.288	8.238	8.338	144	142	
	1	6.204	6.154	6.254	128		
	2	6.391	6.341	6.441	136		
	3	6.544	6.494	6.594	128		
	4	7.016	6.966	7.066	106		
COLUMN 2	5	7.257	7.207	7.307	113	122	15.15

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

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
TR-04-110424MSD

Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab Sample ID: P4706-01MSD Date(s) Analyzed: 11/06/2024 11/06/2024
Instrument ID (1): ECD_O Instrument ID (2): ECD_O
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PO107737.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.523	5.473	5.573	136		
	2	5.545	5.495	5.595	126		
	3	5.608	5.558	5.658	128		
COLUMN 1	4	5.705	5.655	5.755	139		
	5	6	5.95	6.05	127	131	
	1	4.724	4.674	4.774	146		
	2	4.743	4.693	4.793	149		
	3	4.919	4.869	4.969	141		
	4	4.96	4.91	5.01	129		
COLUMN 2	5	5.173	5.123	5.223	131	139	5.93
Aroclor-1260	1	7.13	7.08	7.18	131		
	2	7.387	7.337	7.437	146		
	3	7.749	7.699	7.799	120		
COLUMN 1	4	7.974	7.924	8.024	140		
	5	8.289	8.239	8.339	139	135	
	1	6.204	6.154	6.254	123		
	2	6.391	6.341	6.441	130		
	3	6.545	6.495	6.595	123		
	4	7.016	6.966	7.066	101		
COLUMN 2	5	7.257	7.207	7.307	108	117	14.29

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164704BS

Contract: PORT06
Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718
Lab Sample ID: PB164704BS Date(s) Analyzed: 11/06/2024 11/06/2024
Instrument ID (1): ECD_O Instrument ID (2): ECD_O
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PO107747.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.523	5.473	5.573	4.34		
	2	5.545	5.495	5.595	4.25		
	3	5.608	5.558	5.658	4.18		
COLUMN 1	4	5.705	5.655	5.755	4.34		
	5	6	5.95	6.05	4.00	4.20	
	1	4.723	4.673	4.773	4.43		
	2	4.742	4.692	4.792	4.53		
	3	4.918	4.868	4.968	4.26		
	4	4.959	4.909	5.009	3.86		
COLUMN 2	5	5.173	5.123	5.223	4.08	4.20	0
Aroclor-1260	1	7.129	7.079	7.179	4.04		
	2	7.386	7.336	7.436	4.48		
	3	7.748	7.698	7.798	3.76		
COLUMN 1	4	7.974	7.924	8.024	4.65		
	5	8.289	8.239	8.339	3.93	4.20	
	1	6.204	6.154	6.254	4.39		
	2	6.391	6.341	6.441	4.63		
	3	6.545	6.495	6.595	4.51		
	4	7.015	6.965	7.065	3.90		
COLUMN 2	5	7.256	7.206	7.306	4.15	4.30	2.35

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB164704BSD

Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164704BSD Date(s) Analyzed: 11/06/2024 11/06/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO107748.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.522	5.472	5.572	4.50		
	2	5.545	5.495	5.595	4.39		
	3	5.607	5.557	5.657	4.39		
COLUMN 1	4	5.705	5.655	5.755	4.53		
	5	6	5.95	6.05	4.32	4.40	
	1	4.723	4.673	4.773	4.61		
	2	4.742	4.692	4.792	4.70		
	3	4.918	4.868	4.968	4.52		
	4	4.96	4.91	5.01	4.10		
COLUMN 2	5	5.173	5.123	5.223	4.33	4.50	2.25
Aroclor-1260	1	7.129	7.079	7.179	4.10		
	2	7.386	7.336	7.436	4.66		
	3	7.749	7.699	7.799	3.99		
COLUMN 1	4	7.974	7.924	8.024	4.34		
	5	8.289	8.239	8.339	4.11	4.20	
	1	6.204	6.154	6.254	4.53		
	2	6.391	6.341	6.441	4.80		
	3	6.544	6.494	6.594	4.68		
	4	7.015	6.965	7.065	4.06		
COLUMN 2	5	7.257	7.207	7.307	4.32	4.50	6.9

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107740.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 15:35
Operator : YP/AJ
Sample : P4718-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-307-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:38:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.372	3.643	136.2E6	59626457	14.945	18.526
2)	SA Decachlor...	10.076	8.639	32165255	30200030	13.111	11.015
	Target Compounds						

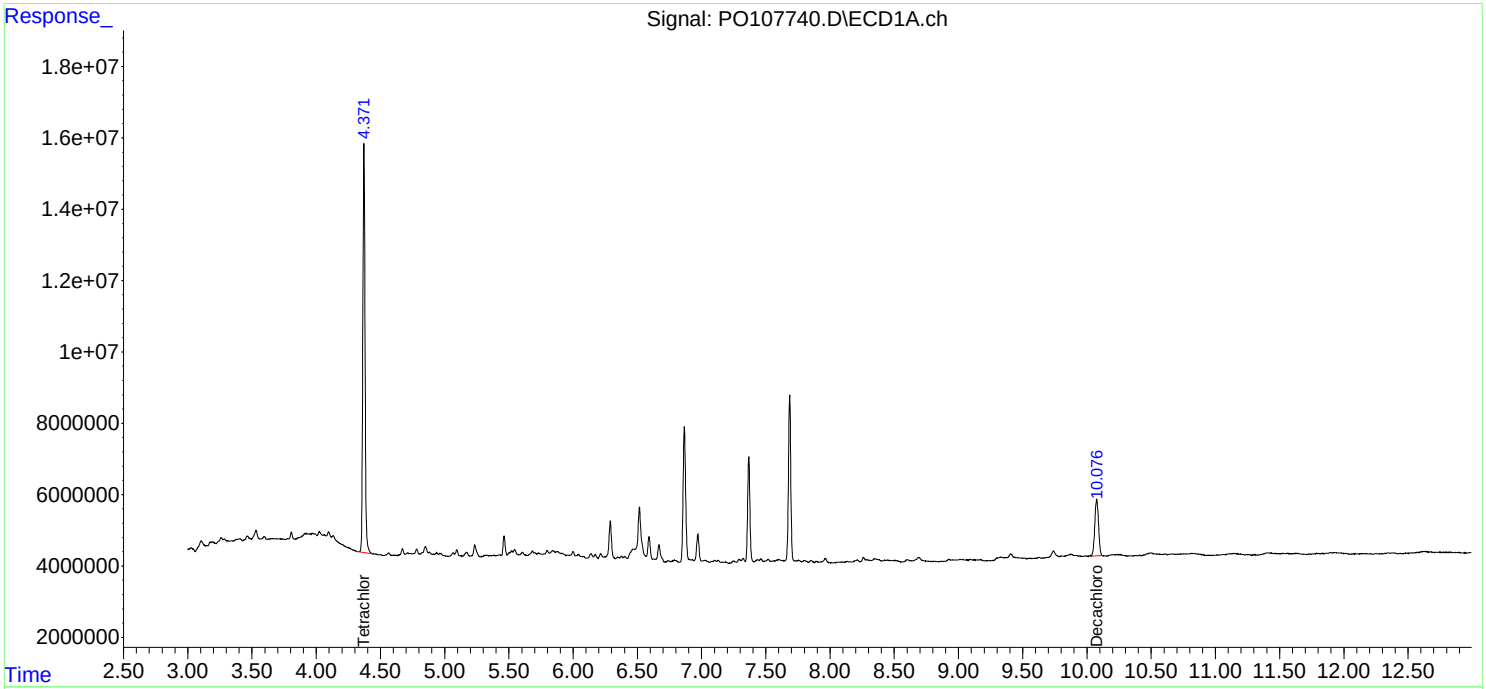
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

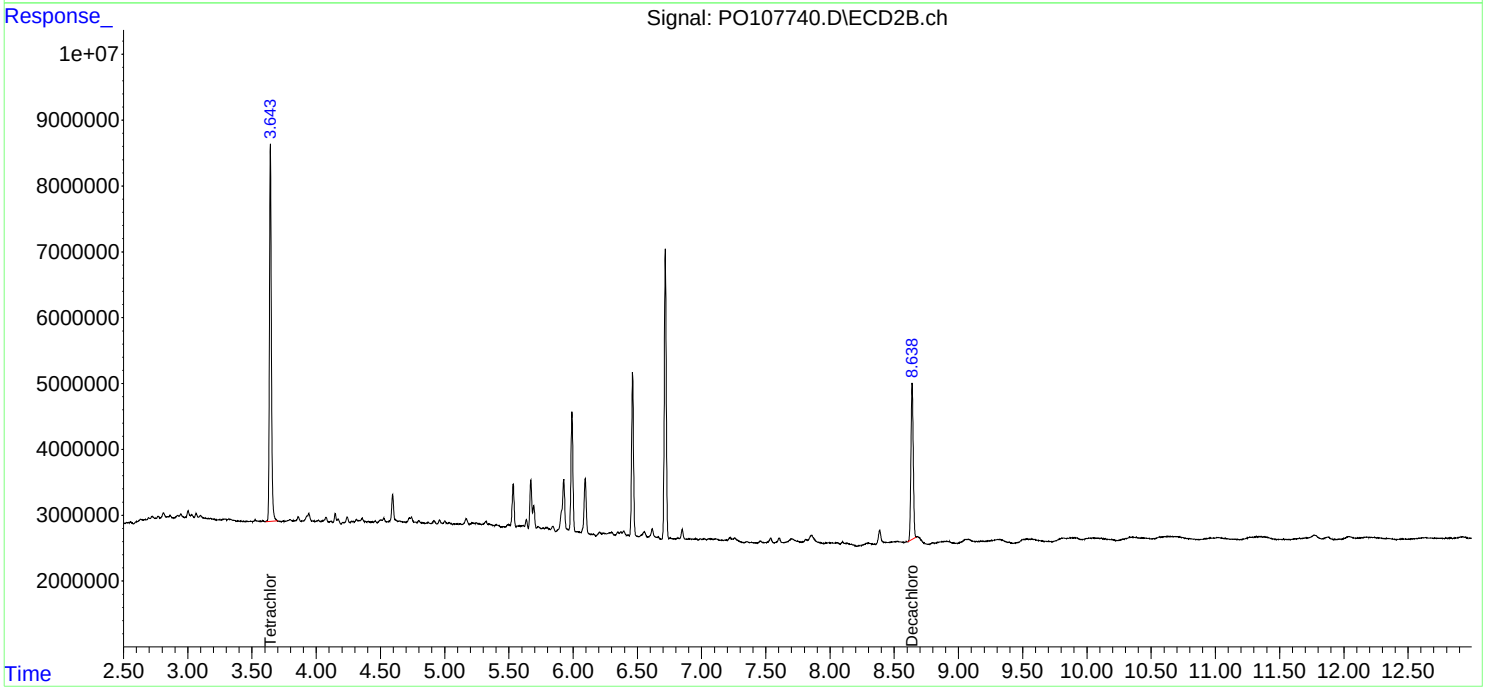
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107740.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 15:35
Operator : YP/AJ
Sample : P4718-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

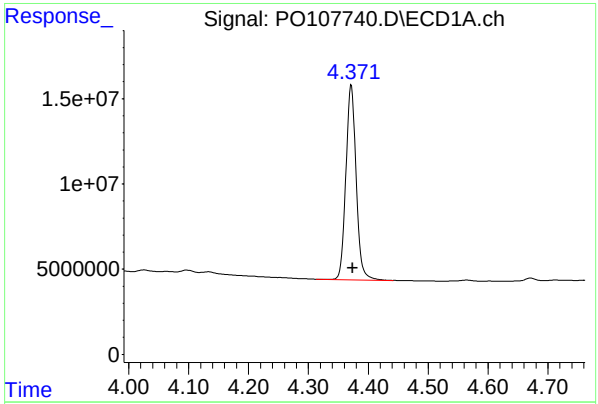
Instrument :
ECD_O
ClientSampleId :
WB-307-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:38:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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



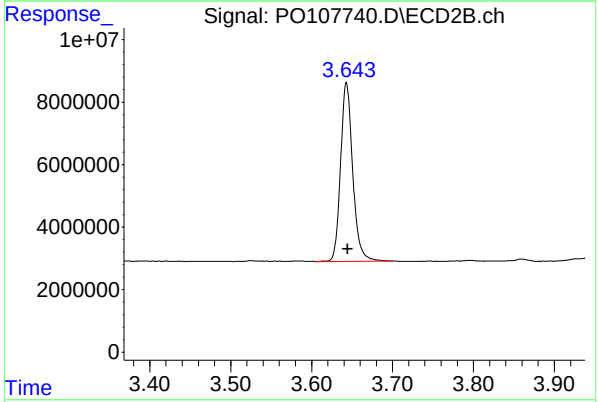




#1 Tetrachloro-m-xylene

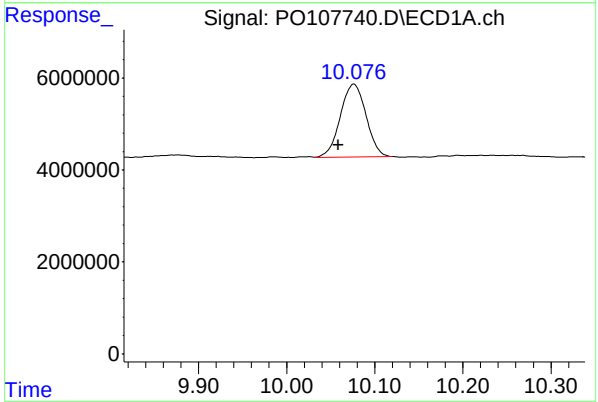
R.T.: 4.372 min
Delta R.T.: -0.002 min
Response: 136204161
Conc: 14.94 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-307-SB01



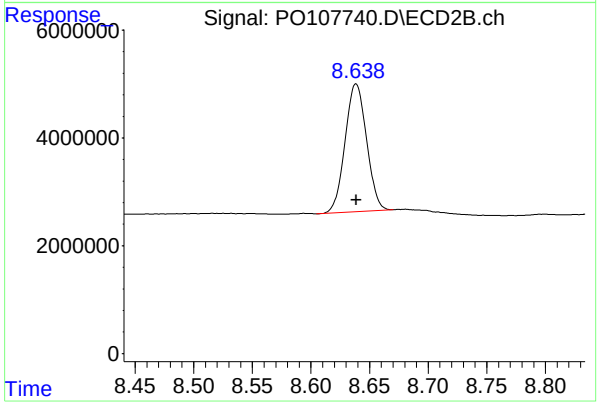
#1 Tetrachloro-m-xylene

R.T.: 3.643 min
Delta R.T.: -0.002 min
Response: 59626457
Conc: 18.53 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.076 min
Delta R.T.: 0.018 min
Response: 32165255
Conc: 13.11 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 30200030
Conc: 11.02 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107761.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 23:02
Operator : YP/AJ
Sample : P4718-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-307-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:51:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.372	3.642	188.9E6	68344143	20.728	21.235
2)	SA Decachlor...	10.075	8.639	46538403	57577942	18.969	21.002
	Target Compounds						

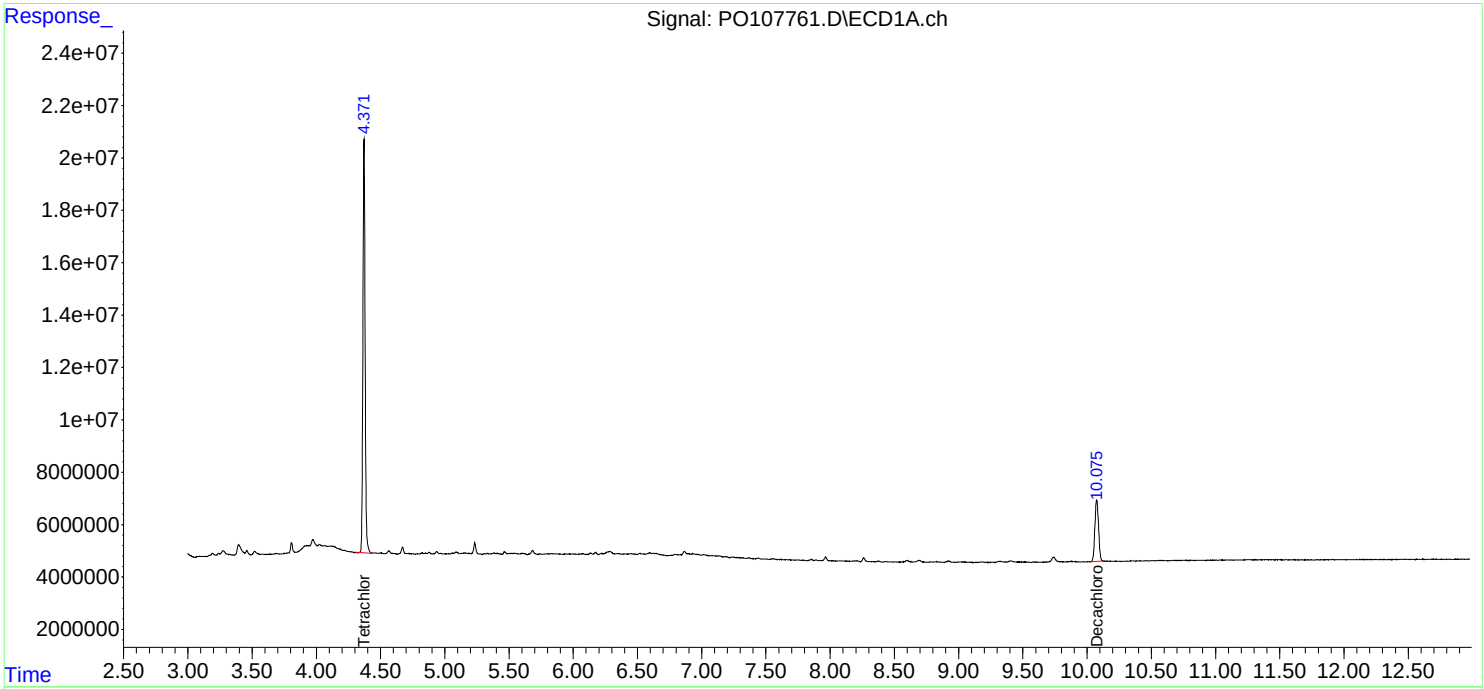
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

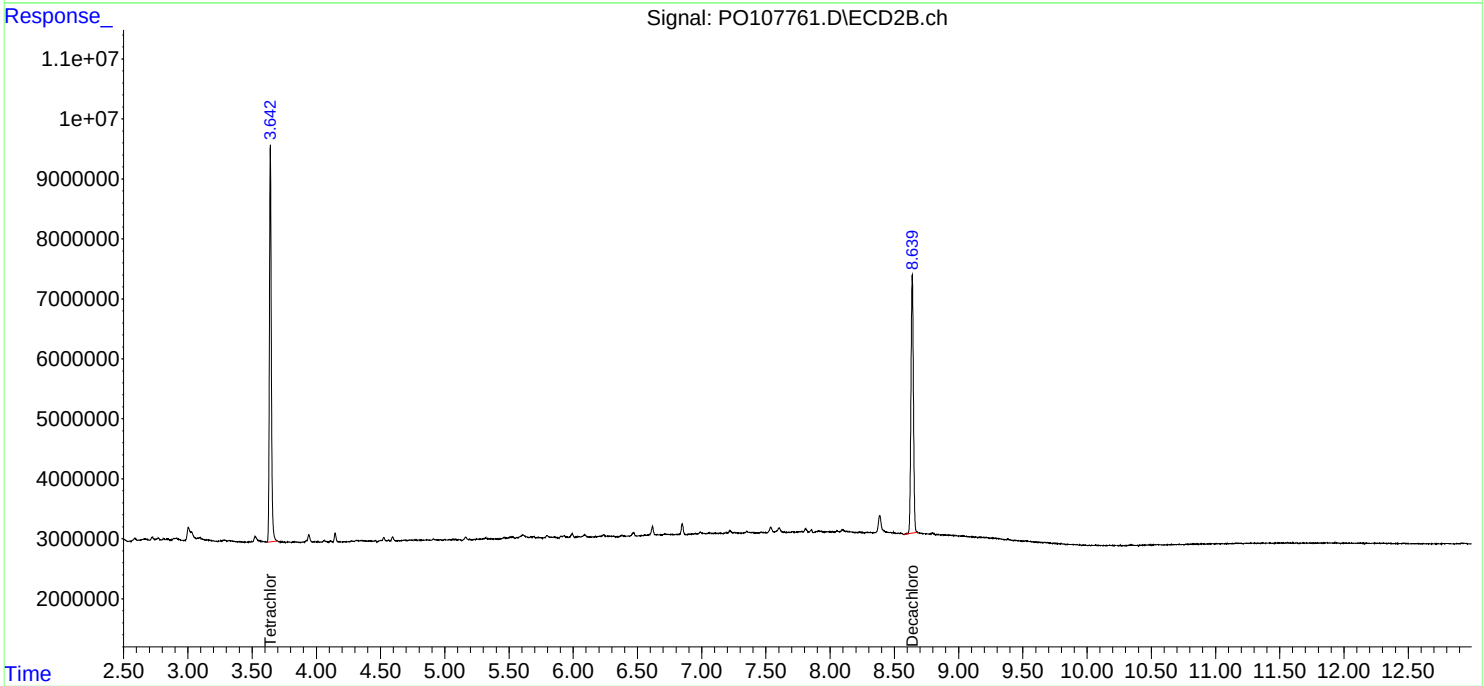
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107761.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 23:02
Operator : YP/AJ
Sample : P4718-02
Misc :
ALS Vial : 27 Sample Multiplier: 1

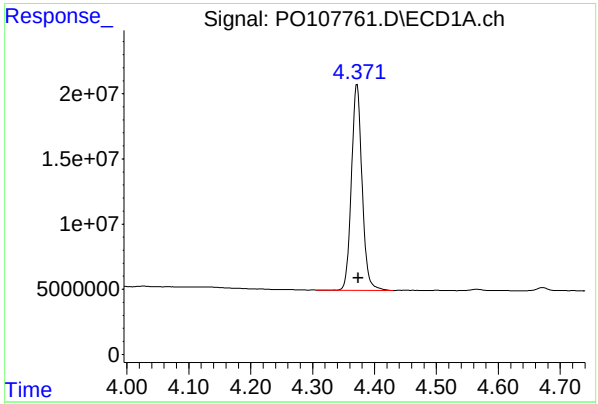
Instrument :
ECD_O
ClientSampleId :
WB-307-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:51:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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



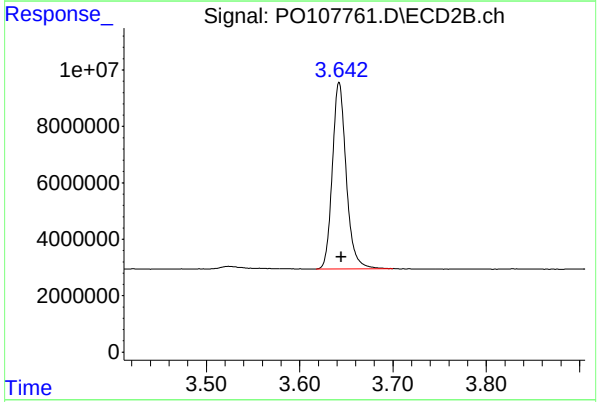




#1 Tetrachloro-m-xylene

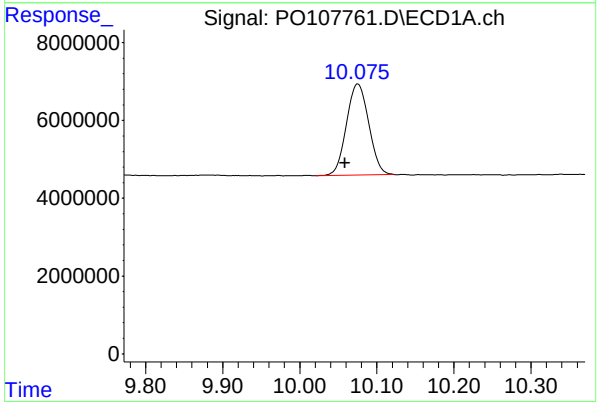
R.T.: 4.372 min
Delta R.T.: -0.002 min
Response: 188913124
Conc: 20.73 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-307-SB02



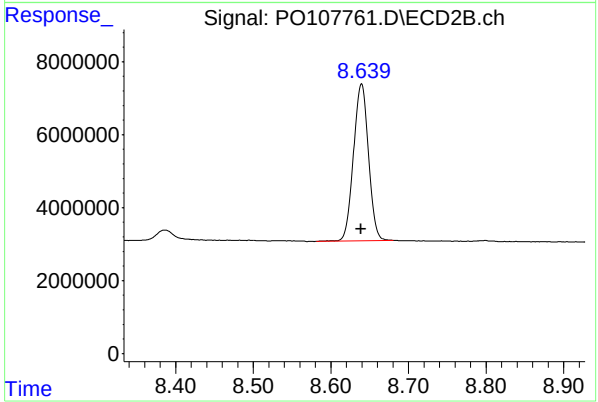
#1 Tetrachloro-m-xylene

R.T.: 3.642 min
Delta R.T.: -0.002 min
Response: 68344143
Conc: 21.23 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.075 min
Delta R.T.: 0.017 min
Response: 46538403
Conc: 18.97 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 57577942
Conc: 21.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107755.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 20:41
Operator : YP/AJ
Sample : P4718-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
WB-307-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:47:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.372	3.643	165.7E6	60741855	18.177	18.873
2)	SA Decachlor...	10.075	8.639	43125108	51403974	17.578	18.750
	Target Compounds						

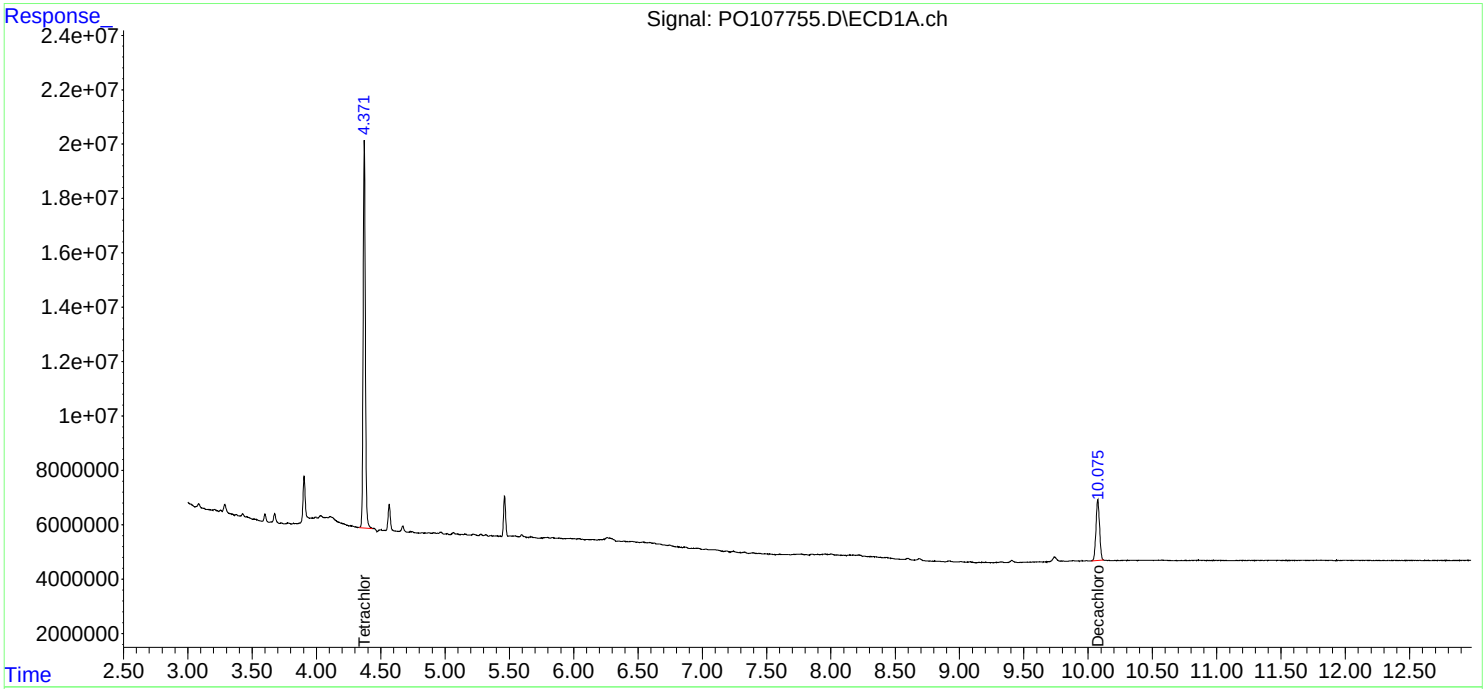
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

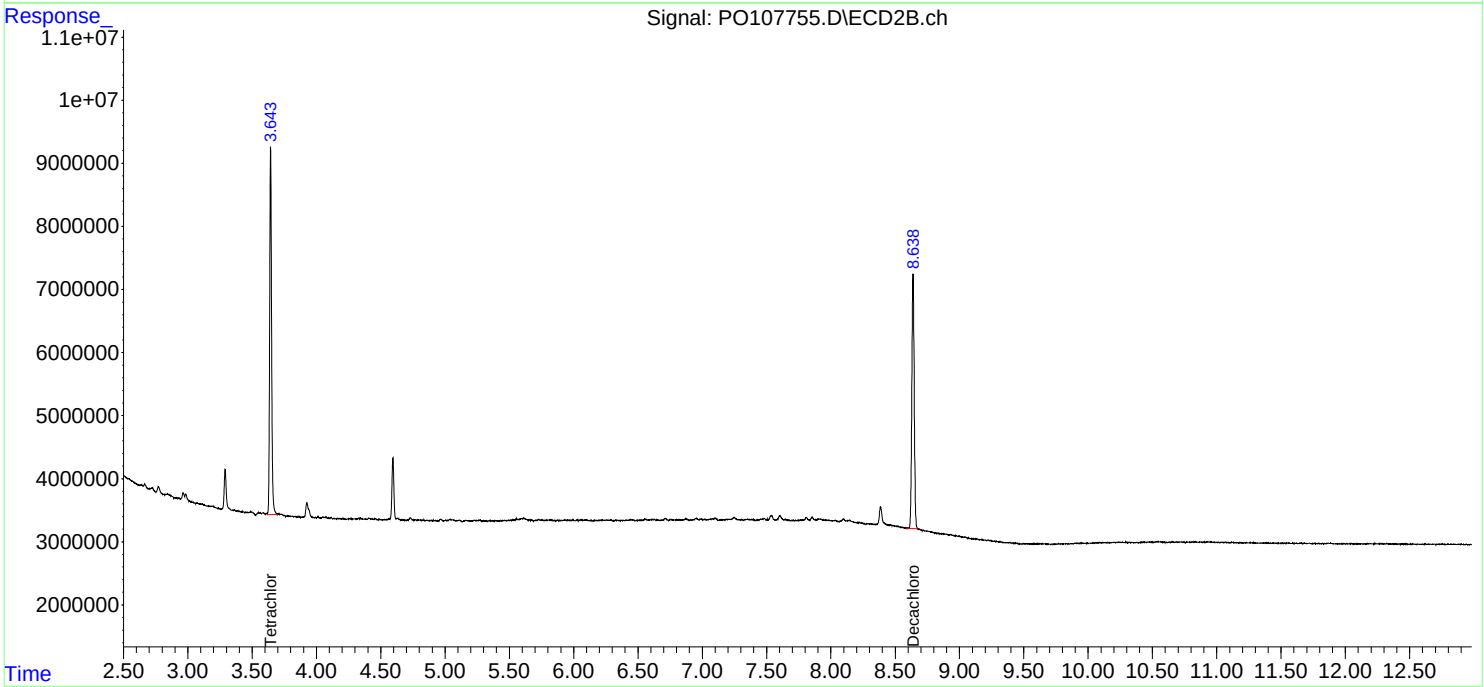
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107755.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 20:41
Operator : YP/AJ
Sample : P4718-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

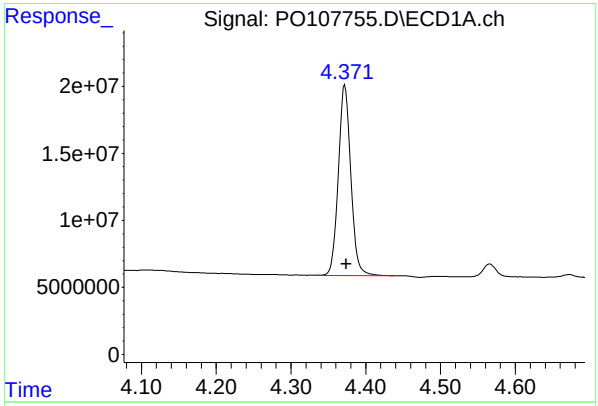
Instrument :
ECD_O
ClientSampleId :
WB-307-SW

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:47:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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



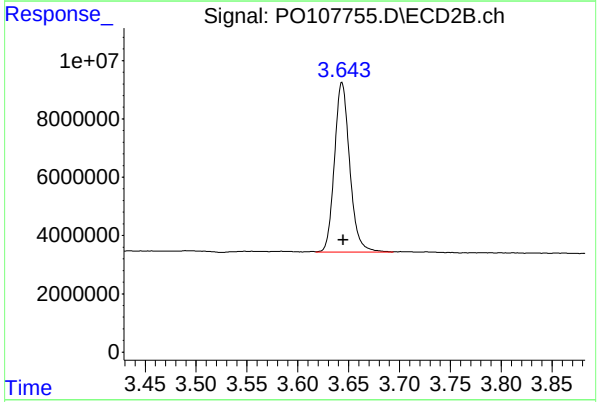




#1 Tetrachloro-m-xylene

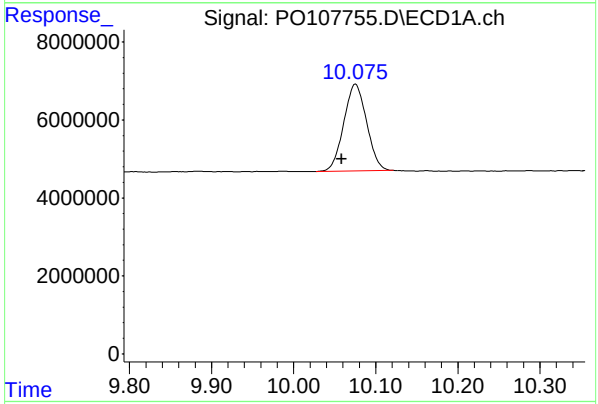
R.T.: 4.372 min
Delta R.T.: -0.002 min
Response: 165666421
Conc: 18.18 ng/ml

Instrument :
ECD_O
ClientSampleId :
WB-307-SW



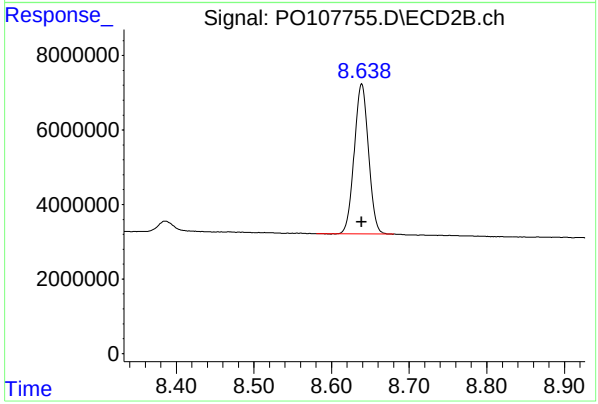
#1 Tetrachloro-m-xylene

R.T.: 3.643 min
Delta R.T.: -0.001 min
Response: 60741855
Conc: 18.87 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.075 min
Delta R.T.: 0.017 min
Response: 43125108
Conc: 17.58 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.639 min
Delta R.T.: 0.000 min
Response: 51403974
Conc: 18.75 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107731.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:10
Operator : YP/AJ
Sample : PB164700BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164700BL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 14:27:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.374	3.644	196.1E6	69316988	21.520	21.537
2)	SA Decachlor...	10.081	8.641	56085345	66156116	22.860m	24.131
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

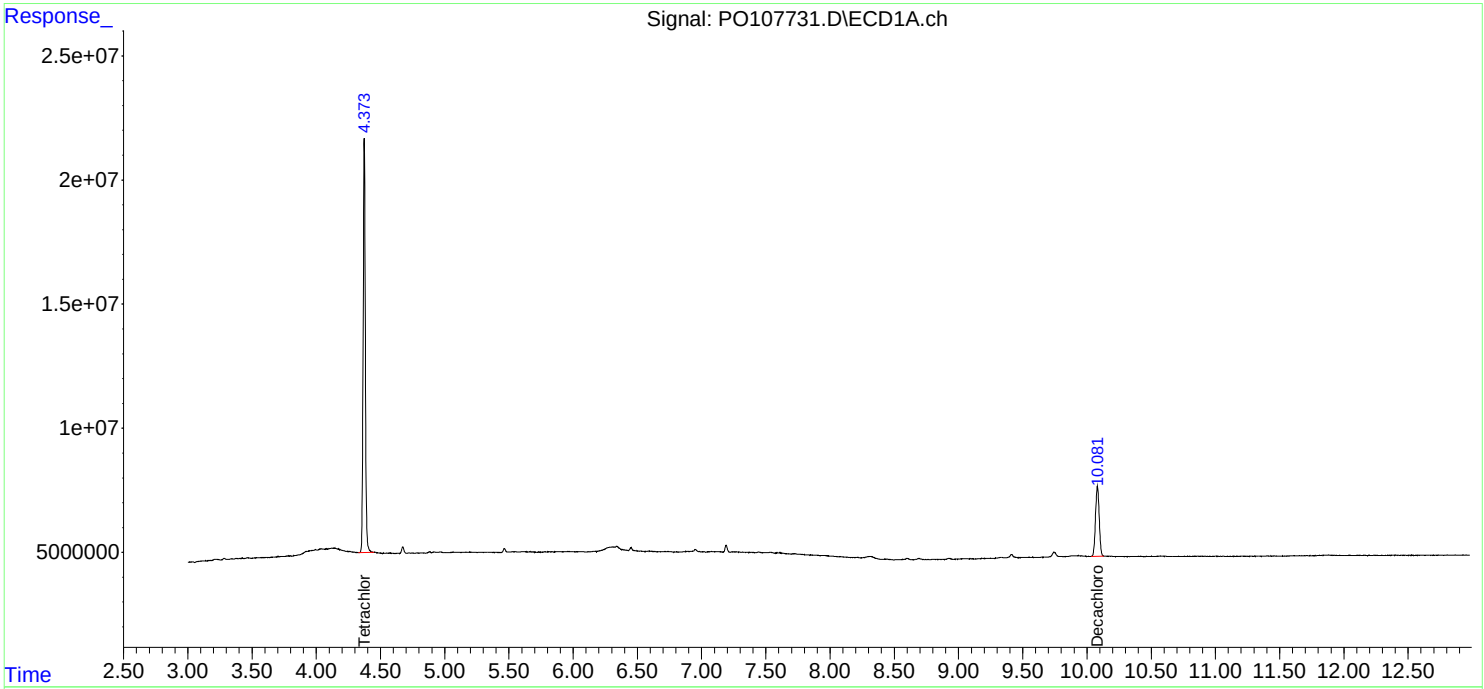
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107731.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:10
Operator : YP/AJ
Sample : PB164700BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

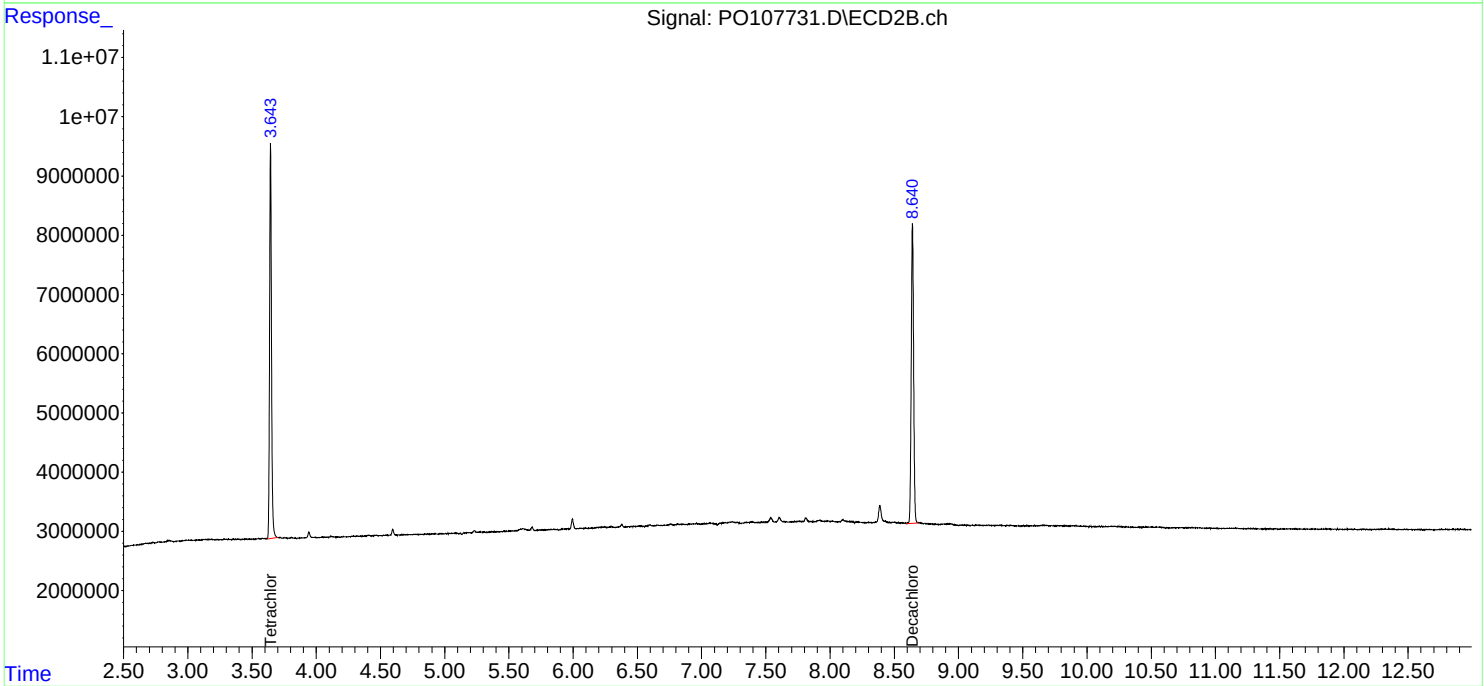
Instrument :
ECD_O
ClientSampleId :
PB164700BL

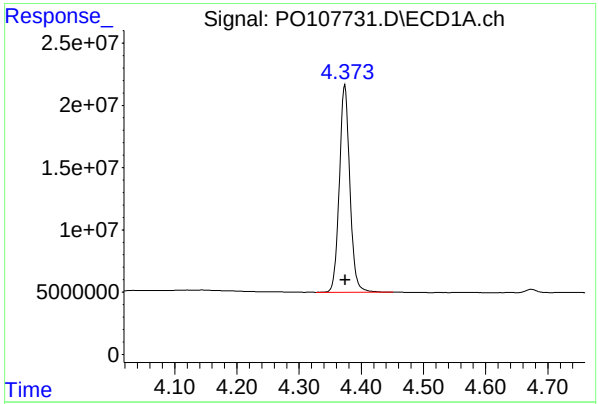
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 14:27:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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







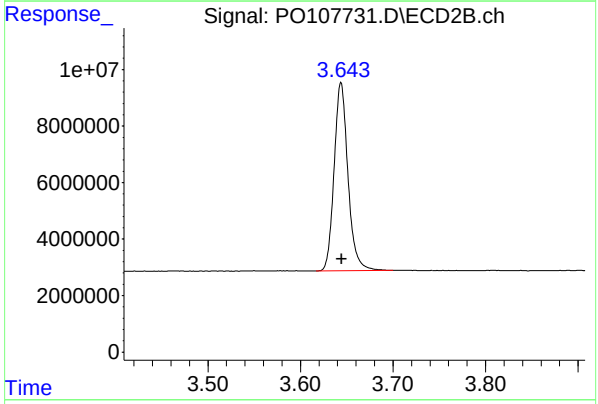
#1 Tetrachloro-m-xylene

R.T.: 4.374 min
Delta R.T.: 0.000 min
Response: 196130859
Conc: 21.52 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB164700BL

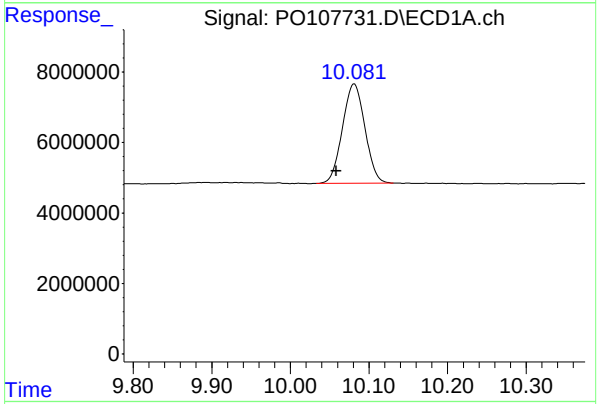
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/06/2024
Supervised By :Ankita Jodhani 11/07/2024



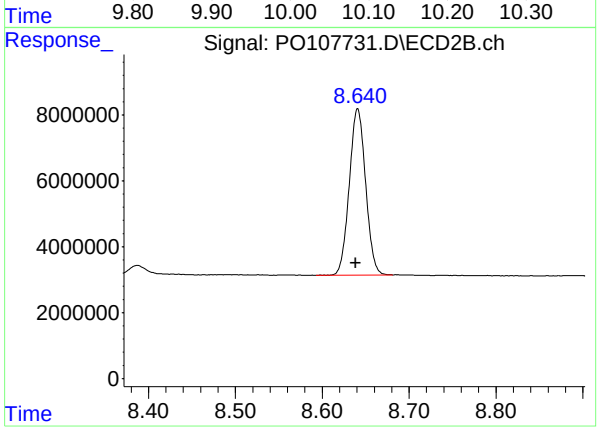
#1 Tetrachloro-m-xylene

R.T.: 3.644 min
Delta R.T.: 0.000 min
Response: 69316988
Conc: 21.54 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.081 min
Delta R.T.: 0.022 min
Response: 56085345
Conc: 22.86 ng/ml m



#2 Decachlorobiphenyl

R.T.: 8.641 min
Delta R.T.: 0.002 min
Response: 66156116
Conc: 24.13 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107746.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 18:15
Operator : YP/AJ
Sample : PB164704BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164704BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:41:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.371	3.642	173.1E6	63762629	18.998	19.811
2)	SA Decachlor...	10.074	8.638	46582557	50525503	18.987	18.429
	Target Compounds						

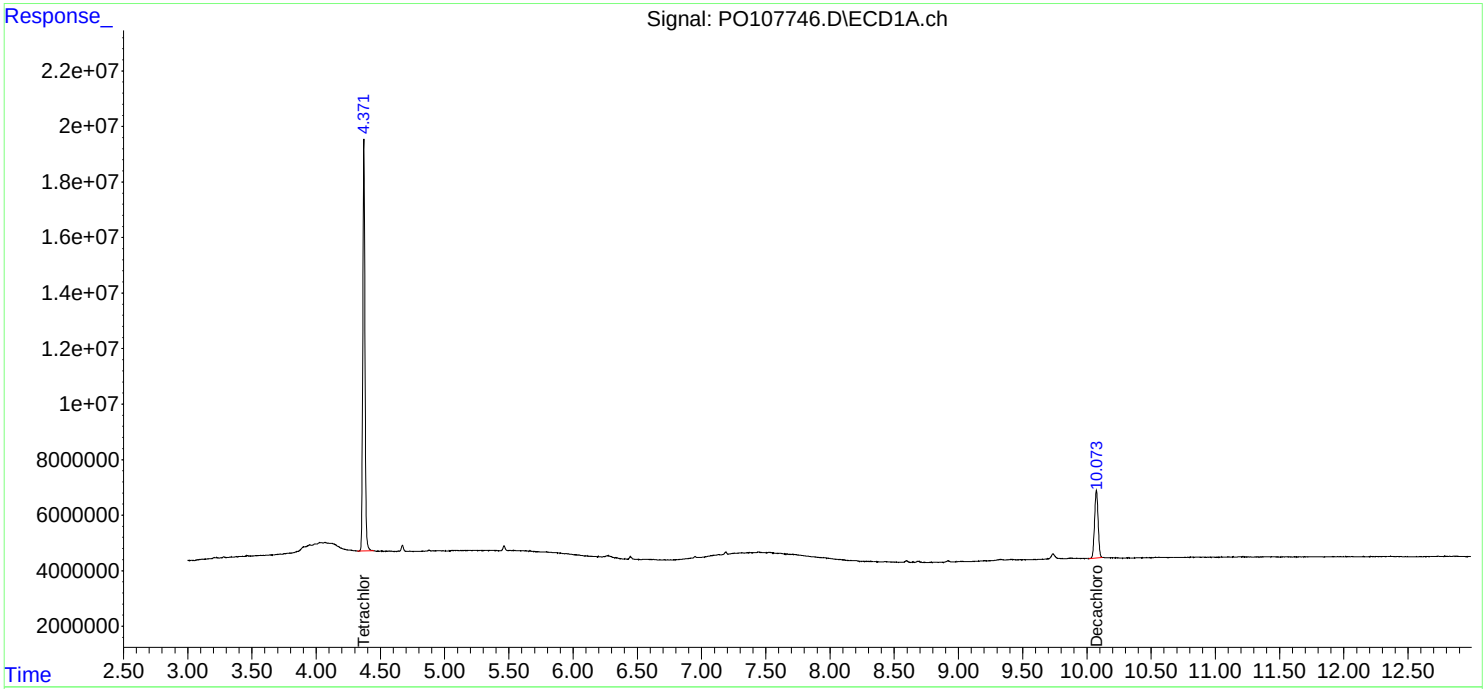
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

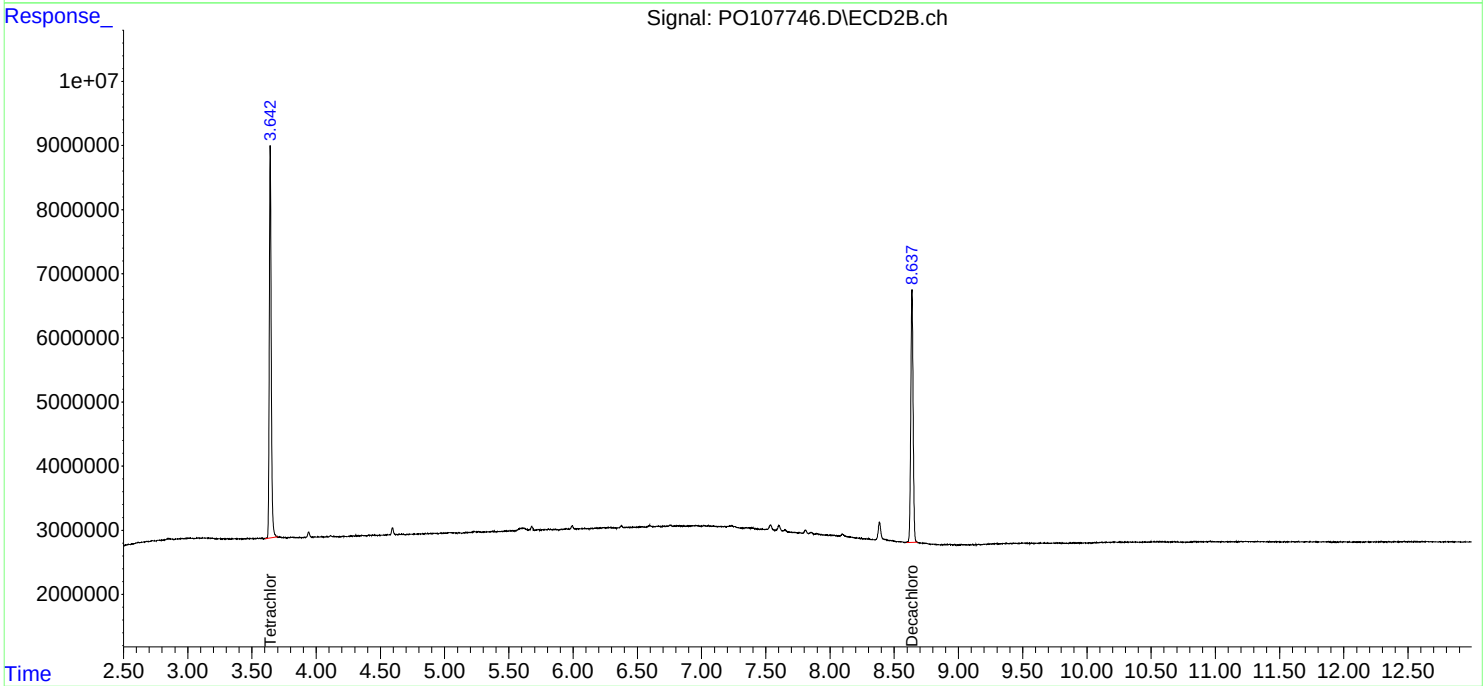
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107746.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 18:15
Operator : YP/AJ
Sample : PB164704BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

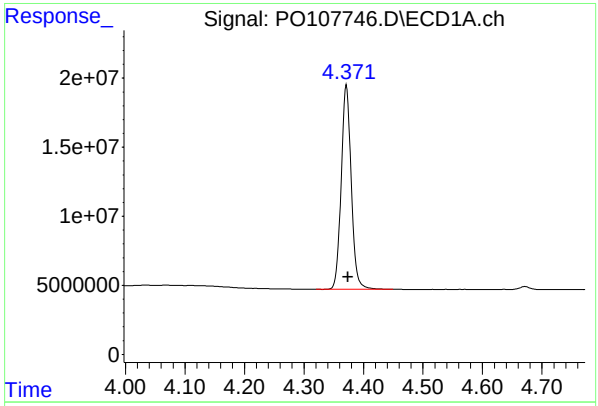
Instrument :
ECD_O
ClientSampleId :
PB164704BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:41:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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



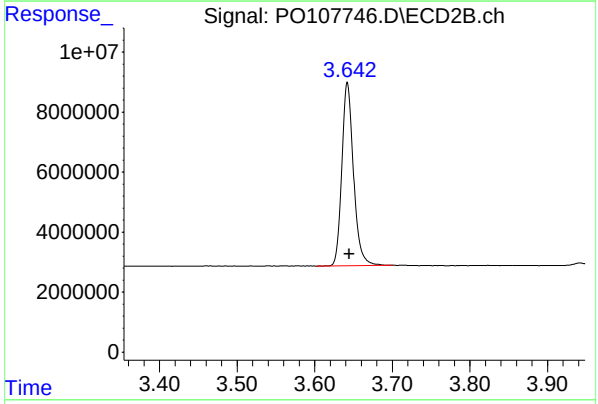




#1 Tetrachloro-m-xylene

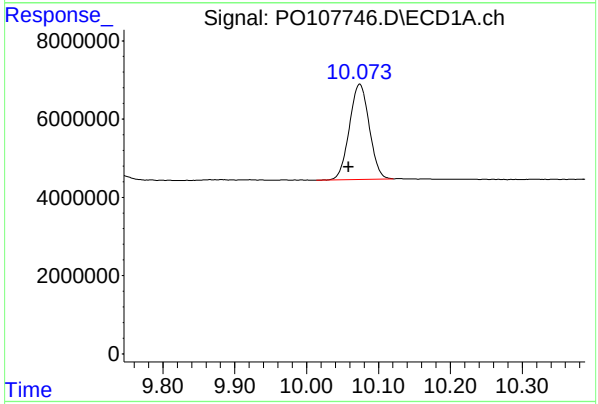
R.T.: 4.371 min
Delta R.T.: -0.003 min
Response: 173141855
Conc: 19.00 ng/ml

Instrument :
ECD_O
ClientSampleId :
PB164704BL



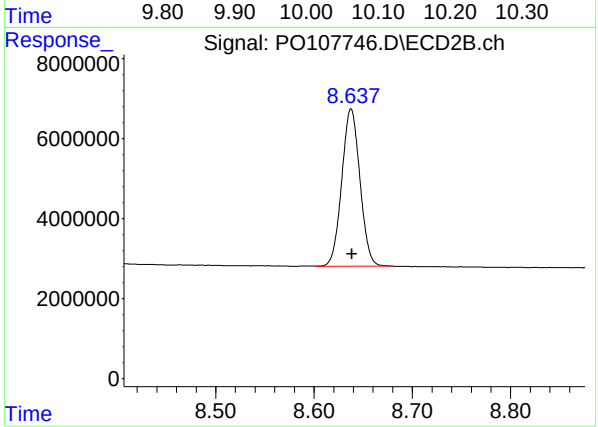
#1 Tetrachloro-m-xylene

R.T.: 3.642 min
Delta R.T.: -0.002 min
Response: 63762629
Conc: 19.81 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.074 min
Delta R.T.: 0.016 min
Response: 46582557
Conc: 18.99 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.638 min
Delta R.T.: 0.000 min
Response: 50525503
Conc: 18.43 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107732.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:26
Operator : YP/AJ
Sample : PB164700BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164700BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 14:28:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.373	3.644	196.5E6	65305545	21.561	20.291
2)	SA Decachlor...	10.078	8.640	55115919	64406717	22.465	23.492
	Target Compounds						
3)	L1 AR-1016-1	5.524	4.724	134.2E6	50310036	497.297	487.190
4)	L1 AR-1016-2	5.546	4.743	190.2E6	71097228	479.230	504.351
5)	L1 AR-1016-3	5.609	4.919	120.1E6	38063818	478.231	483.377
6)	L1 AR-1016-4	5.706	4.960	96535995	29004573	501.194	438.743
7)	L1 AR-1016-5	6.001	5.174	89678218	38109669	490.974	463.995
31)	L7 AR-1260-1	7.131	6.205	132.8E6	75350909	513.712	485.650
32)	L7 AR-1260-2	7.388	6.393	140.6E6	90134523	534.137	511.792
33)	L7 AR-1260-3	7.750	6.545	84929464	83746756	472.499	499.241
34)	L7 AR-1260-4	7.975	7.016	91447040	62486944	521.054	431.895
35)	L7 AR-1260-5	8.290	7.258	136.7E6	152.4E6	480.655	462.561

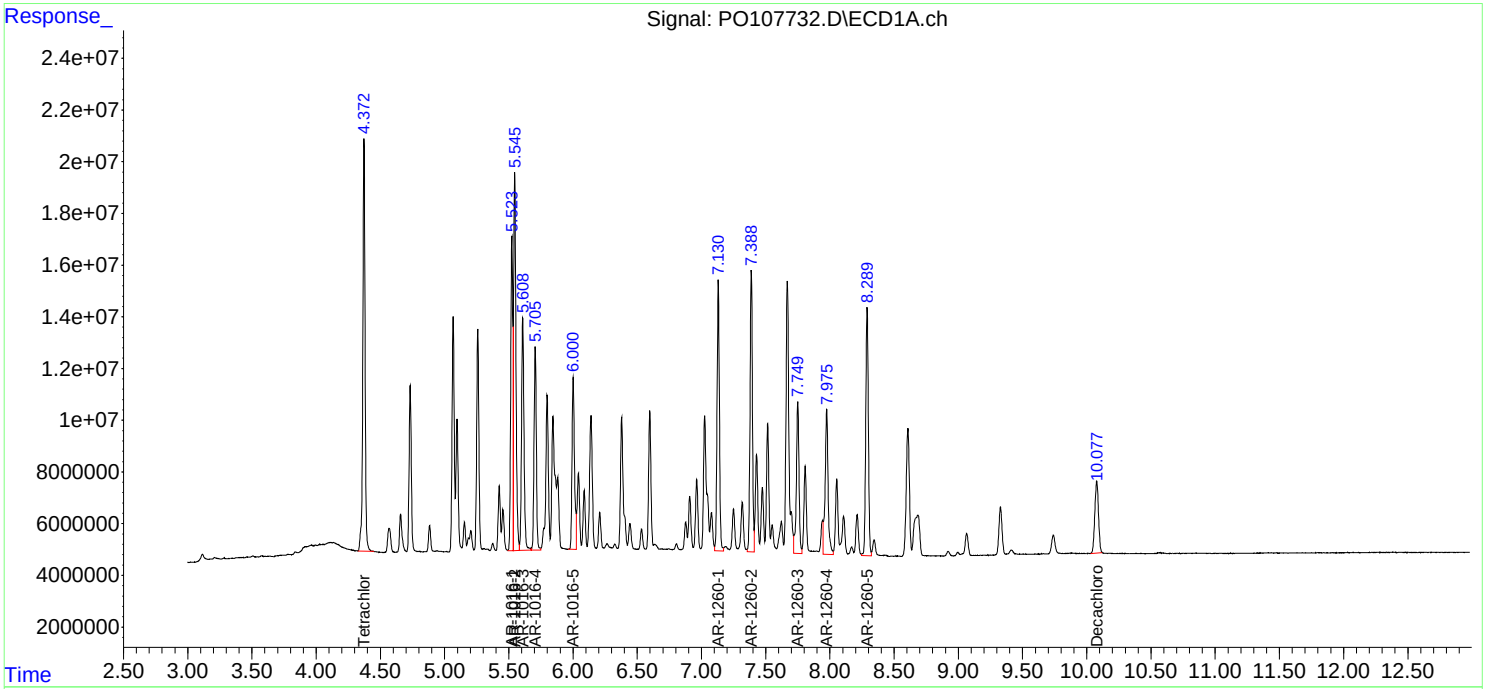
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

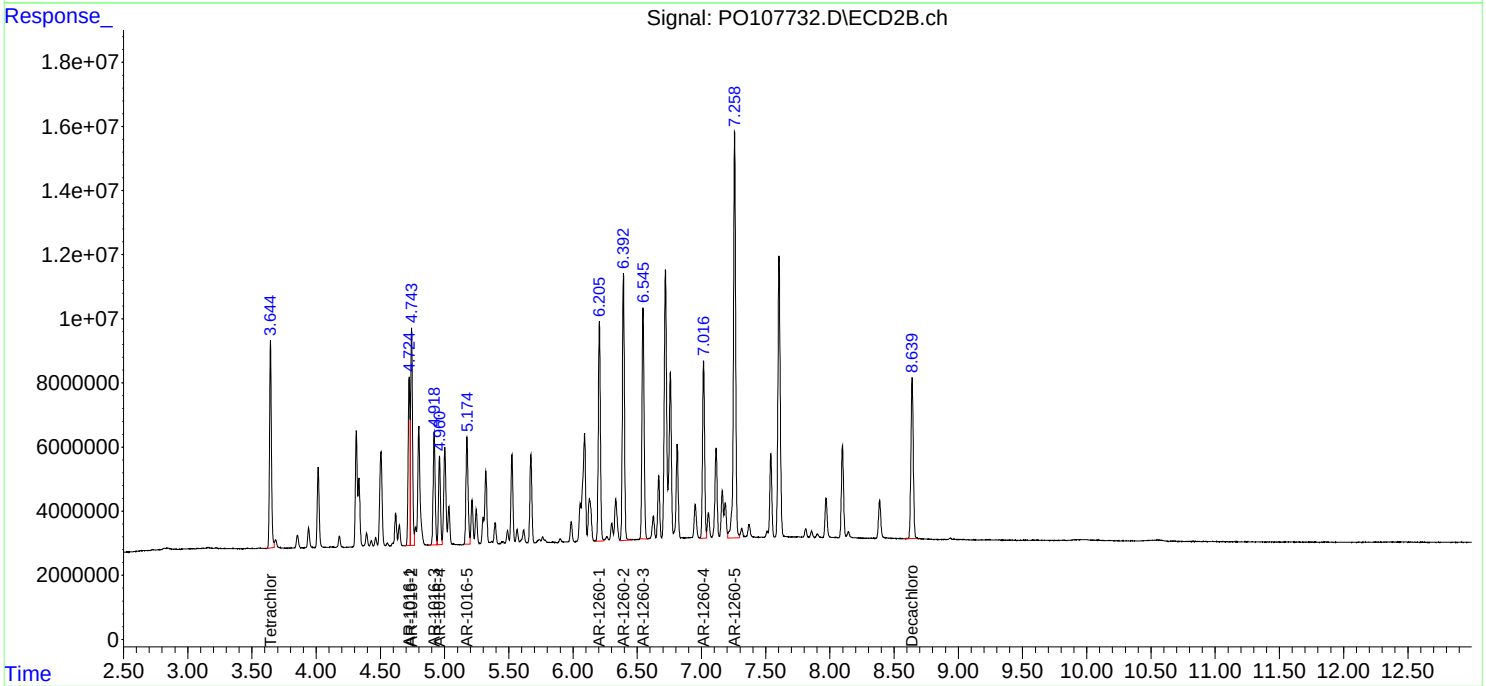
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107732.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 13:26
Operator : YP/AJ
Sample : PB164700BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164700BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 14:28:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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





Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107747.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 18:31
Operator : YP/AJ
Sample : PB164704BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164704BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:42:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.371	3.643	170.1E6	60074781	18.660	18.665
2)	SA Decachlor...	10.074	8.638	46118064	50619964	18.798	18.464
	Target Compounds						
3)	L1 AR-1016-1	5.523	4.723	117.1E6	45751939	433.858	443.051
4)	L1 AR-1016-2	5.545	4.742	168.5E6	63898497	424.550	453.284
5)	L1 AR-1016-3	5.608	4.918	105.1E6	33507344	418.312	425.514
6)	L1 AR-1016-4	5.705	4.959	83633165	25486426	434.206	385.525
7)	L1 AR-1016-5	6.000	5.173	73111448	33503207	400.274	407.910
31)	L7 AR-1260-1	7.129	6.204	104.4E6	68121902	403.836m	439.058
32)	L7 AR-1260-2	7.386	6.391	117.9E6	81564327	447.861m	463.129
33)	L7 AR-1260-3	7.748	6.545	67578108	75682256	375.966m	451.166
34)	L7 AR-1260-4	7.974	7.015	81592652	56379969	464.905m	389.685
35)	L7 AR-1260-5	8.289	7.256	111.9E6	136.7E6	393.419	415.085

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

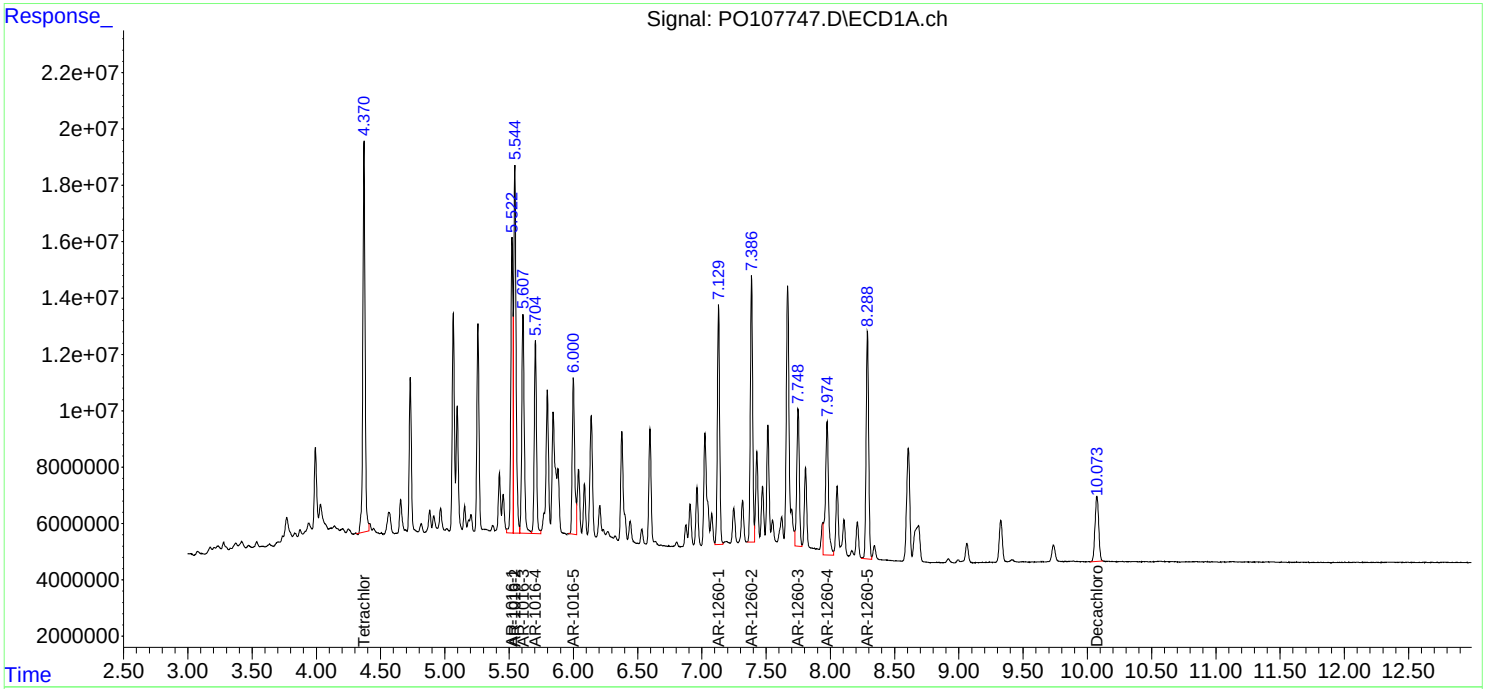
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107747.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 18:31
Operator : YP/AJ
Sample : PB164704BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

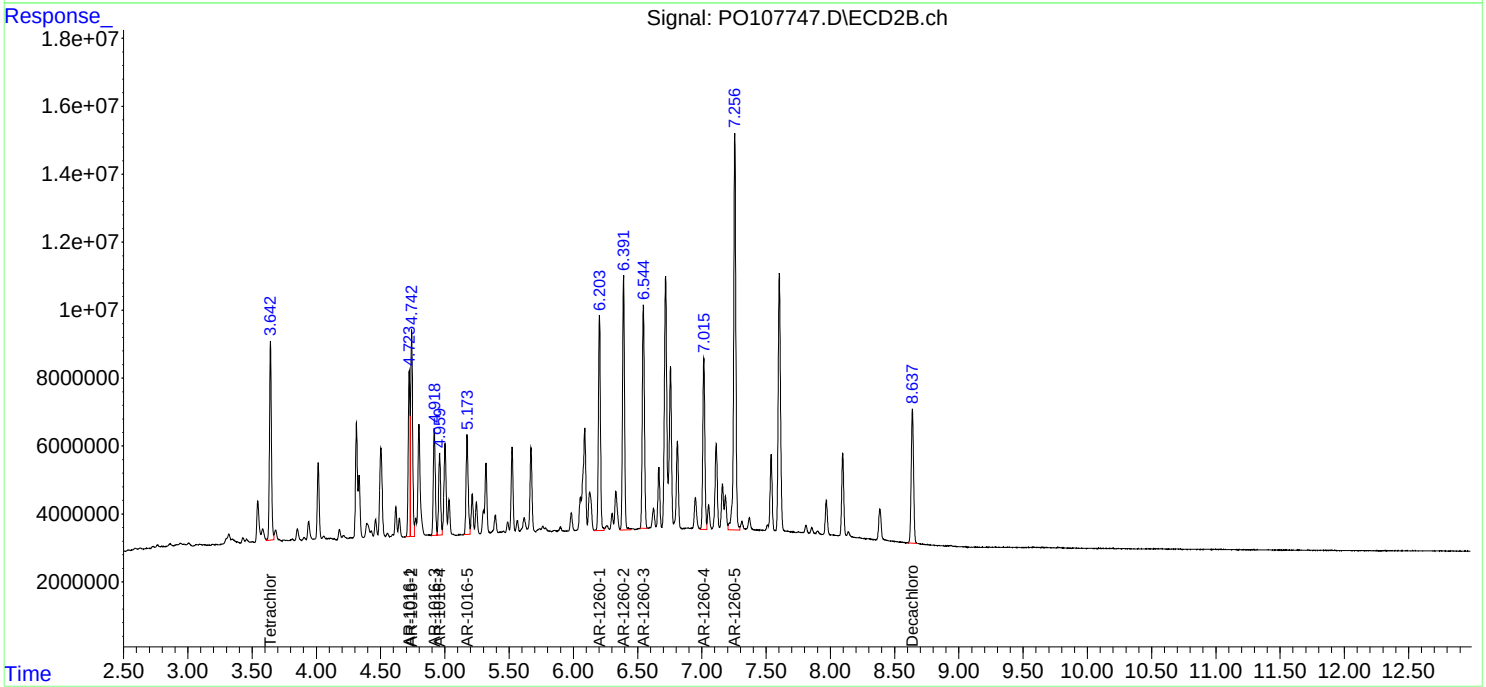
Instrument :
ECD_O
ClientSampleId :
PB164704BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:42:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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_O\Data\PO110624\
Data File : PO107748.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 18:47
Operator : YP/AJ
Sample : PB164704BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
PB164704BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:43:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.371	3.643	179.1E6	62155249	19.655	19.312
2)	SA Decachlor...	10.076	8.638	47831458	52987232	19.496	19.327
	Target Compounds						
3)	L1 AR-1016-1	5.522	4.723	121.4E6	47636084	449.929	461.296
4)	L1 AR-1016-2	5.545	4.742	174.1E6	66300185	438.696	470.322
5)	L1 AR-1016-3	5.607	4.918	110.4E6	35609026	439.374	452.203
6)	L1 AR-1016-4	5.705	4.960	87239370	27111910	452.928	410.113
7)	L1 AR-1016-5	6.000	5.173	78851351	35566527	431.699	433.031
31)	L7 AR-1260-1	7.129	6.204	106.0E6	70303008	409.806m	453.116
32)	L7 AR-1260-2	7.386	6.391	122.6E6	84508840	465.917m	479.849
33)	L7 AR-1260-3	7.749	6.544	71743188	78482348	399.138m	467.858
34)	L7 AR-1260-4	7.974	7.015	76227838	58763052	434.337m	406.157
35)	L7 AR-1260-5	8.289	7.257	116.9E6	142.4E6	411.157	432.180

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

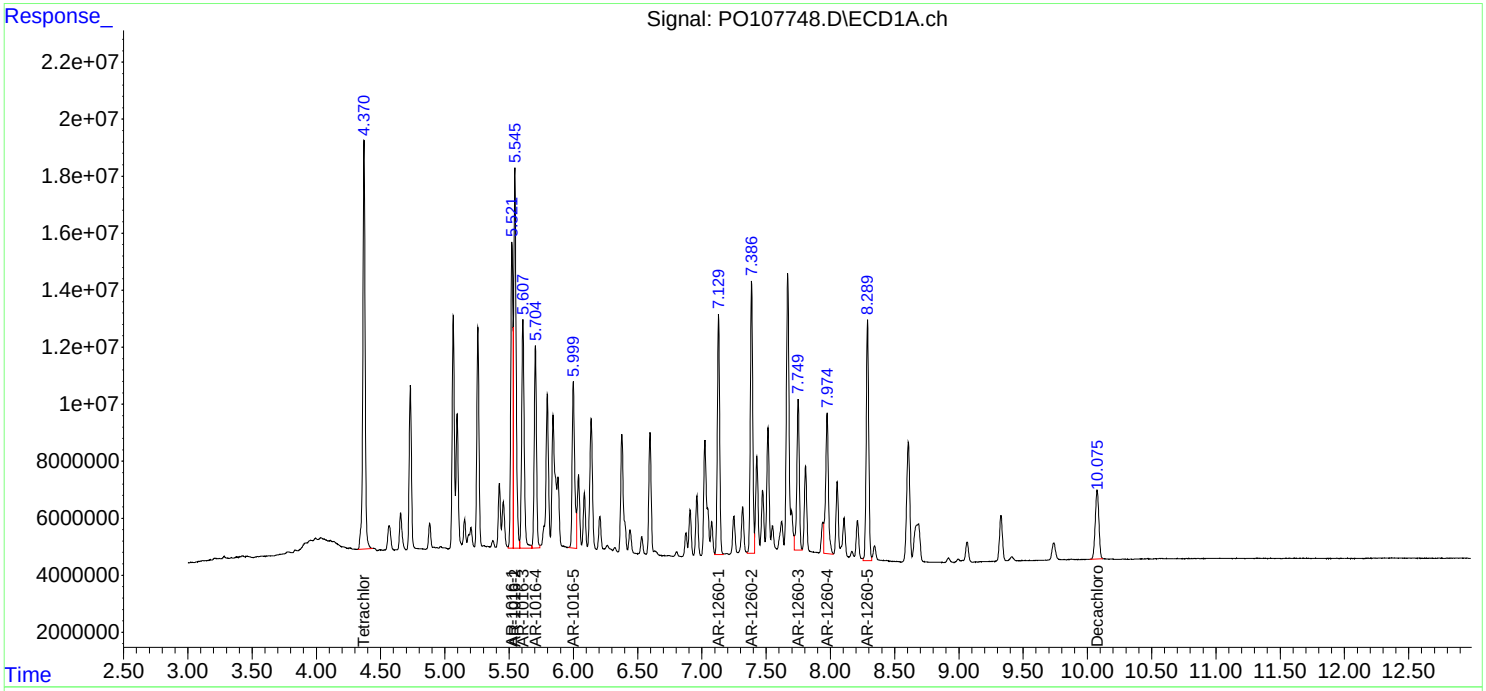
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107748.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 18:47
Operator : YP/AJ
Sample : PB164704BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

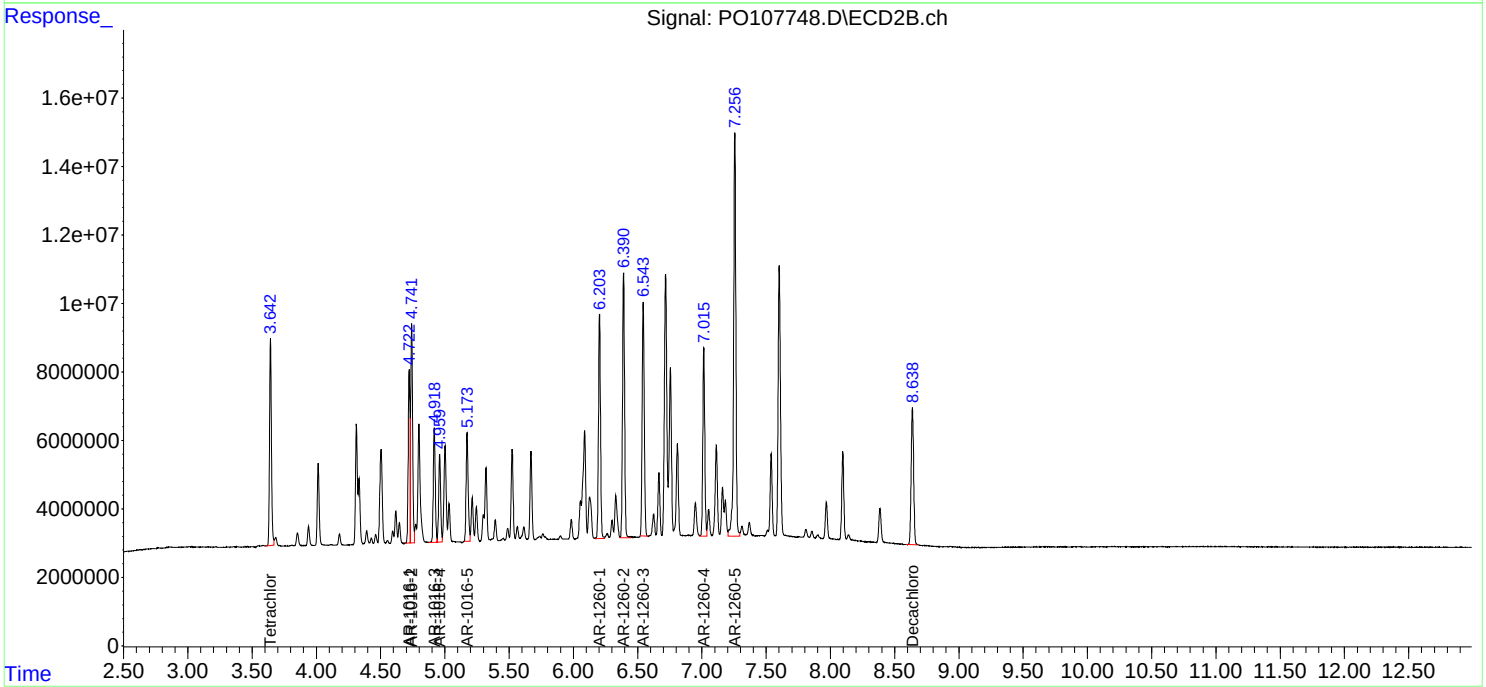
Instrument :
ECD_O
ClientSampleId :
PB164704BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:43:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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_O\Data\PO110624\
Data File : PO107736.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 14:30
Operator : YP/AJ
Sample : P4706-01MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TR-04-110424MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:34:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.371	3.643	147.1E6	53355016	16.142m	16.578	
2)	SA Decachlor...	10.076	8.639	43865714	40338913	17.880	14.714	
	Target Compounds							
3)	L1 AR-1016-1	5.523	4.723	110.0E6	43462795	407.788	420.883	
4)	L1 AR-1016-2	5.546	4.742	147.9E6	60169490	372.701	426.832	
5)	L1 AR-1016-3	5.608	4.918	95926694	31857064	381.920	404.557	
6)	L1 AR-1016-4	5.705	4.960	80053309	24592553	415.620	372.004	
7)	L1 AR-1016-5	5.999	5.172	67336051	30918011	368.654m	376.434	
31)	L7 AR-1260-1	7.130	6.204	100.6E6	55815921	389.170	359.744	
32)	L7 AR-1260-2	7.387	6.391	114.3E6	67433200	434.201	382.892	
33)	L7 AR-1260-3	7.749	6.544	61922678	60504417	344.503	360.686	
34)	L7 AR-1260-4	7.973	7.016	73926864	42919423	421.226m	296.649	#
35)	L7 AR-1260-5	8.288	7.257	114.9E6	104.6E6	404.057	317.603	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

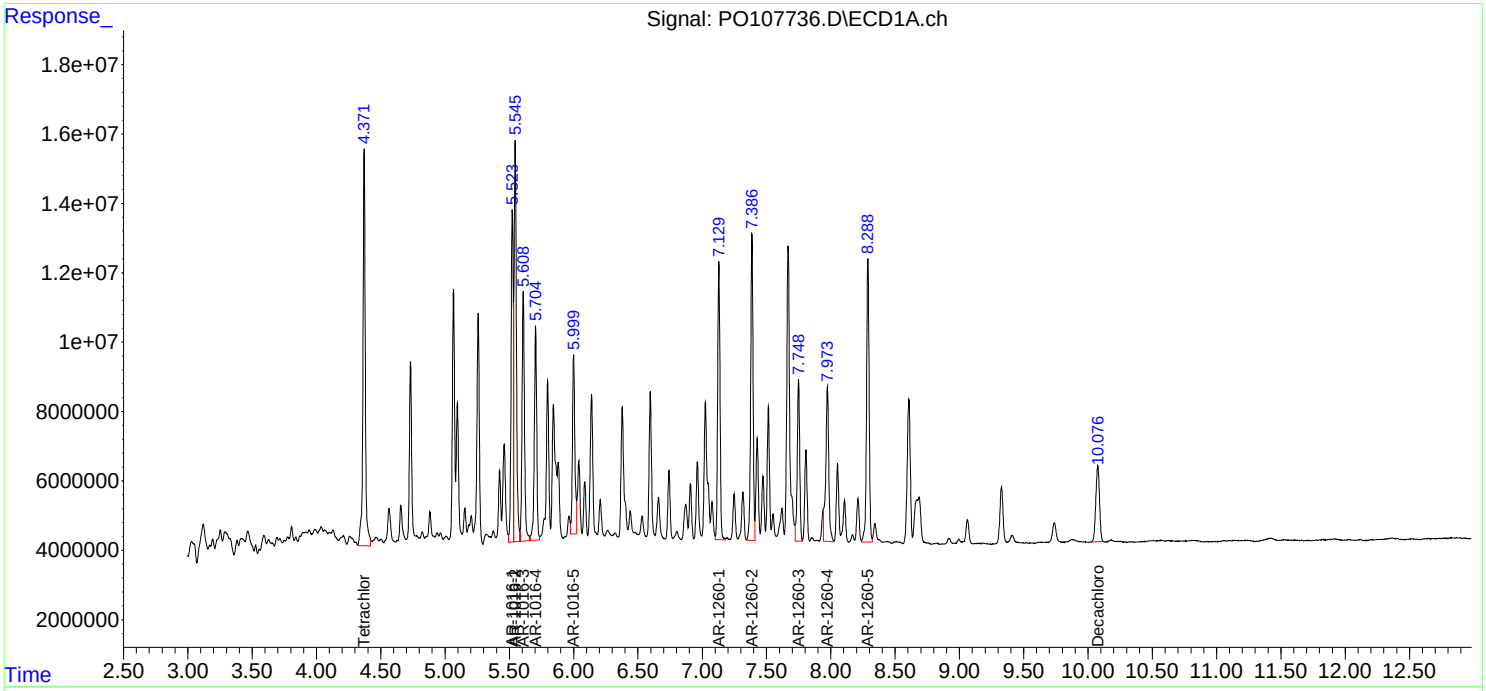
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107736.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 14:30
Operator : YP/AJ
Sample : P4706-01MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

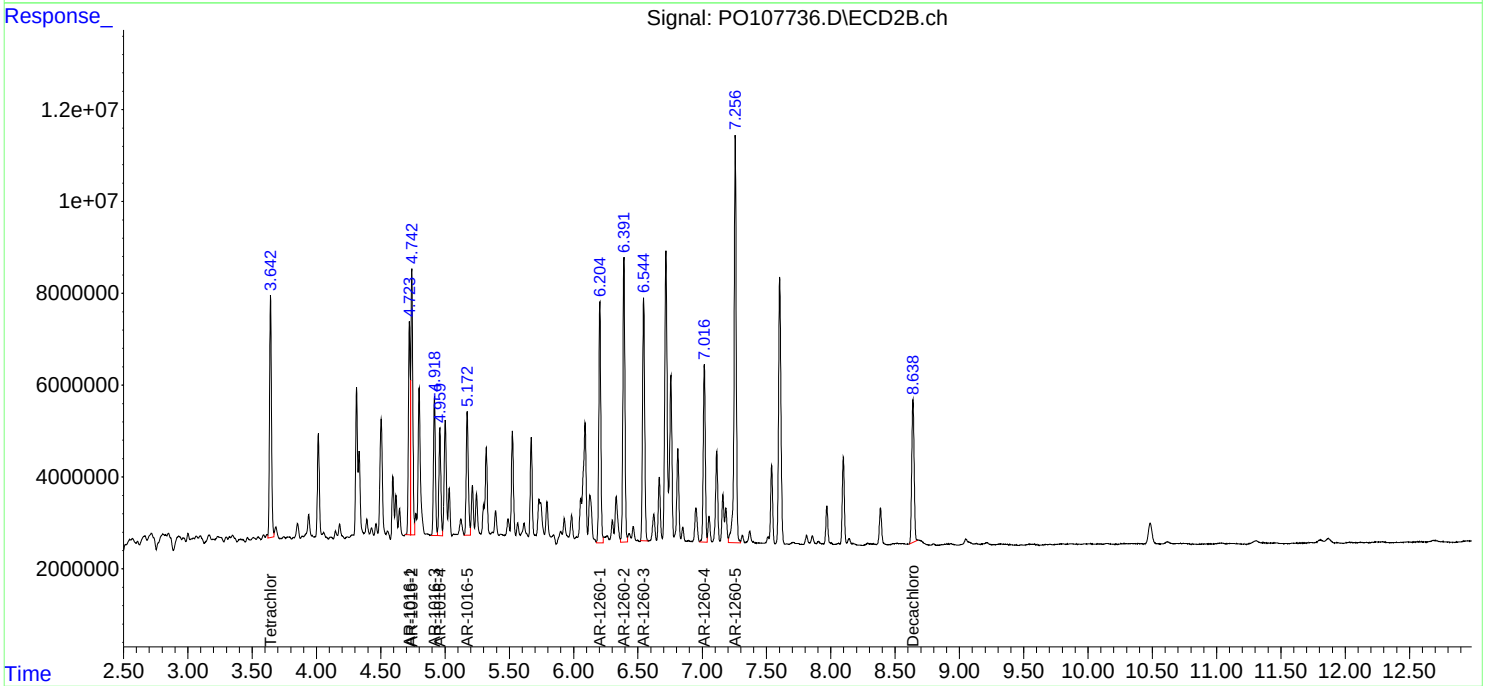
Instrument :
ECD_O
ClientSampleId :
TR-04-110424MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:34:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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_O\Data\PO110624\
Data File : PO107737.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 14:46
Operator : YP/AJ
Sample : P4706-01MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_O
ClientSampleId :
TR-04-110424MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:35:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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...	4.371	3.643	140.5E6	52758307	15.411m	16.392
2)	SA Decachlor...	10.076	8.639	42103541	37929995	17.161	13.835
	Target Compounds						
3)	L1 AR-1016-1	5.523	4.724	103.1E6	42420485	382.230	410.790
4)	L1 AR-1016-2	5.545	4.743	140.4E6	58840351	353.867	417.403
5)	L1 AR-1016-3	5.608	4.919	90547433	31220967	360.503	396.479
6)	L1 AR-1016-4	5.705	4.960	75146983	24000225	390.147	363.044
7)	L1 AR-1016-5	6.000	5.173	64995622	30315402	355.841m	369.098
31)	L7 AR-1260-1	7.130	6.204	95080857	53484580	367.692	344.718
32)	L7 AR-1260-2	7.387	6.391	107.9E6	64487662	409.936	366.167
33)	L7 AR-1260-3	7.749	6.545	60416250	58073864	336.122	346.197
34)	L7 AR-1260-4	7.974	7.016	69106702	41118906	393.762	284.204 #
35)	L7 AR-1260-5	8.289	7.257	111.3E6	99587138	391.284	302.292

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

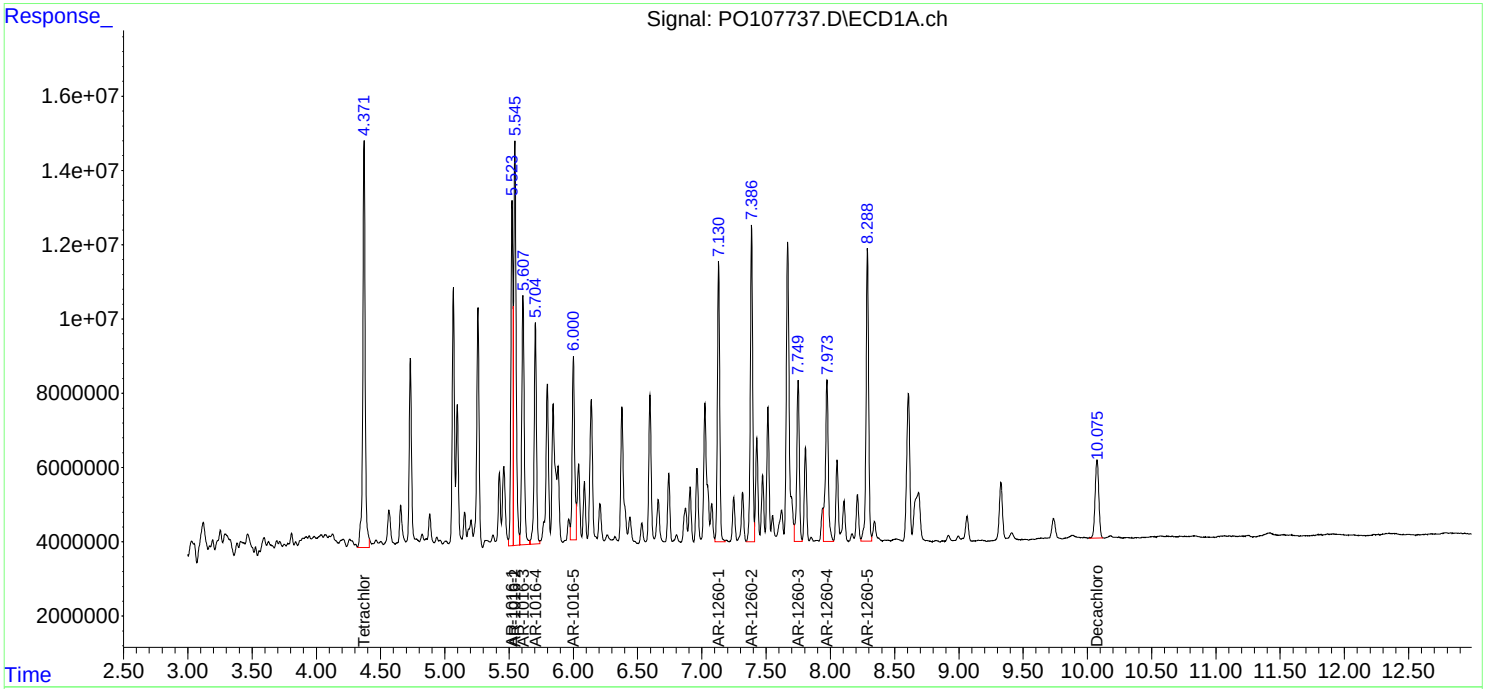
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO110624\
Data File : PO107737.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 14:46
Operator : YP/AJ
Sample : P4706-01MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

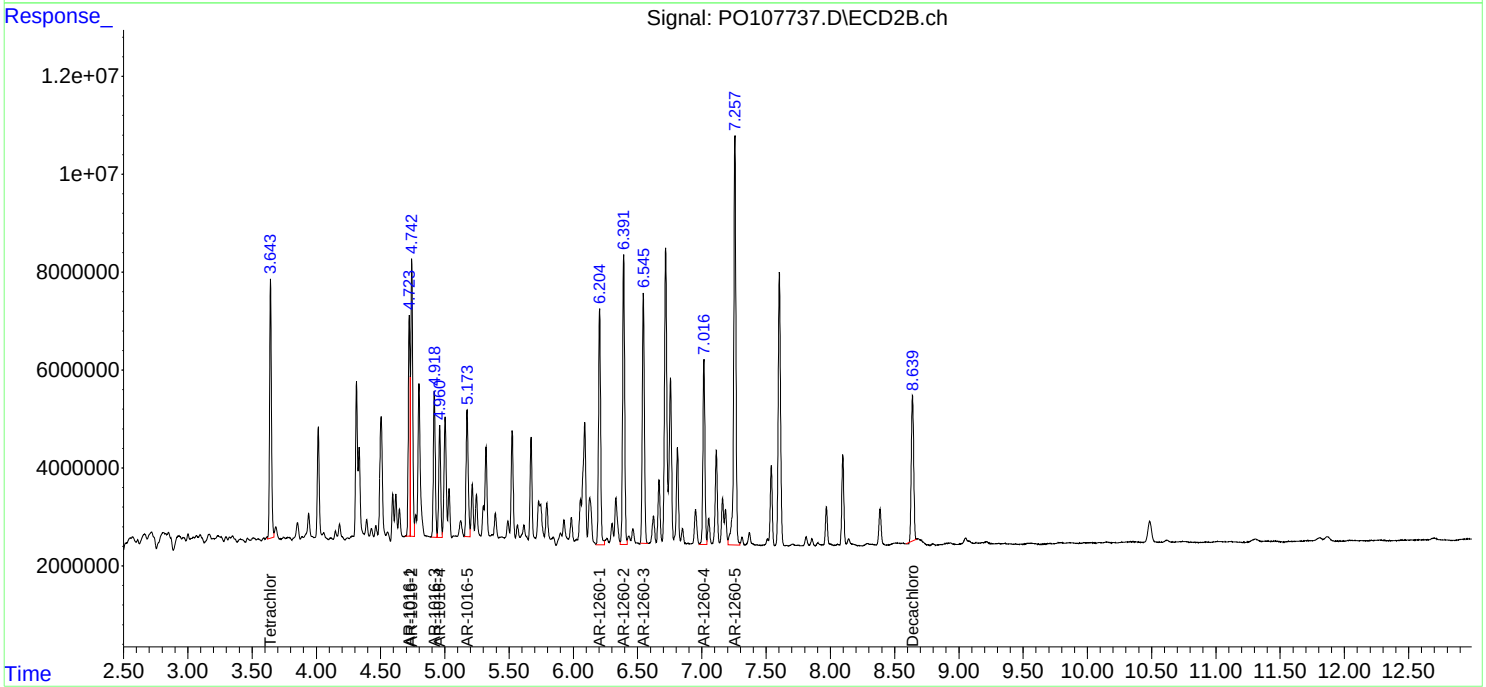
Instrument :
ECD_O
ClientSampleId :
TR-04-110424MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 07 00:35:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO101524.M
Quant Title : GC EXTRACTABLES
QLast Update : Mon Oct 28 11:34:55 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:	po101524	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC050	PO107188.D	AR-1260-1 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-2 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-3	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-3 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-4 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-5	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	AR-1260-5 #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1660ICC050	PO107188.D	Decachlorobiphenyl #2	yogesh	10/16/2024 8:48:58 AM	Ankita	10/16/2024 9:57:34	Peak Integrated by Software
AR1268ICC050	PO107211.D	AR-1268-1	yogesh	10/16/2024 8:49:03 AM	Ankita	10/16/2024 9:57:36	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO110624	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1254CCC500	PO107729.D	AR-1254-2 #2	yogesh	11/6/2024 4:45:16 PM	Ankita	11/7/2024 10:11:05	Peak Integrated by Software
PB164700BL	PO107731.D	Decachlorobiphenyl	yogesh	11/6/2024 4:45:16 PM	Ankita	11/7/2024 10:11:06	Peak Integrated by Software
P4706-01MS	PO107736.D	AR-1016-5	yogesh	11/7/2024 8:50:03 AM	Ankita	11/7/2024 10:11:10	Peak Integrated by Software
P4706-01MS	PO107736.D	AR-1260-4	yogesh	11/7/2024 8:50:03 AM	Ankita	11/7/2024 10:11:10	Peak Integrated by Software
P4706-01MS	PO107736.D	Tetrachloro-m-xylene	yogesh	11/7/2024 8:50:03 AM	Ankita	11/7/2024 10:11:10	Peak Integrated by Software
P4706-01MSD	PO107737.D	AR-1016-5	yogesh	11/7/2024 8:50:05 AM	Ankita	11/7/2024 10:11:12	Peak Integrated by Software
P4706-01MSD	PO107737.D	Tetrachloro-m-xylene	yogesh	11/7/2024 8:50:05 AM	Ankita	11/7/2024 10:11:12	Peak Integrated by Software
AR1254CCC500	PO107744.D	AR-1254-2 #2	yogesh	11/7/2024 8:50:08 AM	Ankita	11/7/2024 10:11:15	Peak Integrated by Software
PB164704BS	PO107747.D	AR-1260-1	yogesh	11/7/2024 8:50:09 AM	Ankita	11/7/2024 10:11:17	Peak Integrated by Software
PB164704BS	PO107747.D	AR-1260-2	yogesh	11/7/2024 8:50:09 AM	Ankita	11/7/2024 10:11:17	Peak Integrated by Software
PB164704BS	PO107747.D	AR-1260-3	yogesh	11/7/2024 8:50:09 AM	Ankita	11/7/2024 10:11:17	Peak Integrated by Software
PB164704BS	PO107747.D	AR-1260-4	yogesh	11/7/2024 8:50:09 AM	Ankita	11/7/2024 10:11:17	Peak Integrated by Software
PB164704BSD	PO107748.D	AR-1260-1	yogesh	11/7/2024 8:50:11 AM	Ankita	11/7/2024 10:11:19	Peak Integrated by Software

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Manual Integration Report

Sequence:	PO110624	Instrument	ECD_o

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164704BSD	PO107748.D	AR-1260-2	yogesh	11/7/2024 8:50:11 AM	Ankita	11/7/2024 10:11:19	Peak Integrated by Software
PB164704BSD	PO107748.D	AR-1260-3	yogesh	11/7/2024 8:50:11 AM	Ankita	11/7/2024 10:11:19	Peak Integrated by Software
PB164704BSD	PO107748.D	AR-1260-4	yogesh	11/7/2024 8:50:11 AM	Ankita	11/7/2024 10:11:19	Peak Integrated by Software
AR1248CCC500	PO107758.D	AR-1248-5 #2	yogesh	11/7/2024 8:50:18 AM	Ankita	11/7/2024 10:11:29	Peak Integrated by Software
AR1254CCC500	PO107759.D	AR-1254-2 #2	yogesh	11/7/2024 8:50:19 AM	Ankita	11/7/2024 10:11:30	Peak Integrated by Software
AR1248CCC500	PO107765.D	Decachlorobiphenyl	yogesh	11/7/2024 8:50:23 AM	Ankita	11/7/2024 10:12:28	Peak Integrated by Software
AR1254CCC500	PO107766.D	AR-1254-2 #2	yogesh	11/7/2024 8:50:24 AM	Ankita	11/7/2024 10:12:29	Peak Integrated by Software

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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

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	PO107180.D	15 Oct 2024 13:05	YP/AJ	Ok
2	AR1660CCC500	PO107181.D	15 Oct 2024 13:23	YP/AJ	Not Ok
3	HEXANE	PO107182.D	15 Oct 2024 17:50	YP/AJ	Ok
4	I.BLK	PO107183.D	15 Oct 2024 18:08	YP/AJ	Ok
5	AR1660ICC1000	PO107184.D	15 Oct 2024 18:27	YP/AJ	Ok
6	AR1660ICC750	PO107185.D	15 Oct 2024 18:45	YP/AJ	Ok
7	AR1660ICC500	PO107186.D	15 Oct 2024 19:03	YP/AJ	Ok
8	AR1660ICC250	PO107187.D	15 Oct 2024 19:21	YP/AJ	Ok
9	AR1660ICC050	PO107188.D	15 Oct 2024 19:39	YP/AJ	Ok,M
10	AR1221ICC500	PO107189.D	15 Oct 2024 19:57	YP/AJ	Ok
11	AR1232ICC500	PO107190.D	15 Oct 2024 20:15	YP/AJ	Ok
12	AR1242ICC1000	PO107191.D	15 Oct 2024 20:34	YP/AJ	Ok
13	AR1242ICC750	PO107192.D	15 Oct 2024 20:52	YP/AJ	Ok
14	AR1242ICC500	PO107193.D	15 Oct 2024 21:10	YP/AJ	Ok
15	AR1242ICC250	PO107194.D	15 Oct 2024 21:28	YP/AJ	Ok
16	AR1242ICC050	PO107195.D	15 Oct 2024 21:46	YP/AJ	Ok
17	AR1248ICC1000	PO107196.D	15 Oct 2024 22:04	YP/AJ	Ok
18	AR1248ICC750	PO107197.D	15 Oct 2024 22:22	YP/AJ	Ok
19	AR1248ICC500	PO107198.D	15 Oct 2024 22:41	YP/AJ	Ok
20	AR1248ICC250	PO107199.D	15 Oct 2024 22:59	YP/AJ	Ok
21	AR1248ICC050	PO107200.D	15 Oct 2024 23:17	YP/AJ	Ok

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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

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	AR1254ICC1000	PO107201.D	15 Oct 2024 23:35	YP/AJ	Ok
23	AR1254ICC750	PO107202.D	15 Oct 2024 23:53	YP/AJ	Ok
24	AR1254ICC500	PO107203.D	16 Oct 2024 00:11	YP/AJ	Ok
25	AR1254ICC250	PO107204.D	16 Oct 2024 00:29	YP/AJ	Ok
26	AR1254ICC050	PO107205.D	16 Oct 2024 00:47	YP/AJ	Ok
27	AR1262ICC500	PO107206.D	16 Oct 2024 01:05	YP/AJ	Ok
28	AR1268ICC1000	PO107207.D	16 Oct 2024 01:23	YP/AJ	Ok
29	AR1268ICC750	PO107208.D	16 Oct 2024 01:41	YP/AJ	Ok
30	AR1268ICC500	PO107209.D	16 Oct 2024 01:59	YP/AJ	Ok
31	AR1268ICC250	PO107210.D	16 Oct 2024 02:18	YP/AJ	Ok
32	AR1268ICC050	PO107211.D	16 Oct 2024 02:36	YP/AJ	Ok,M
33	PO101524ICV500	PO107212.D	16 Oct 2024 02:54	YP/AJ	Ok
34	AR1242ICV500	PO107213.D	16 Oct 2024 03:12	YP/AJ	Ok
35	AR1248ICV500	PO107214.D	16 Oct 2024 03:30	YP/AJ	Ok
36	AR1254ICV500	PO107215.D	16 Oct 2024 03:48	YP/AJ	Ok
37	AR1268ICV500	PO107216.D	16 Oct 2024 04:06	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO110624

Review By	yogesh	Review On	11/7/2024 8:50:43 AM		
Supervise By	Ankita	Supervise On	11/7/2024 10:12:36 AM		
SubDirectory	PO110624	HP Acquire Method		HP Processing Method	PO101524

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	PO107725.D	06 Nov 2024 09:13	YP/AJ	Ok
2	AR1660CCC500	PO107726.D	06 Nov 2024 09:29	YP/AJ	Ok
3	AR1242CCC500	PO107727.D	06 Nov 2024 09:45	YP/AJ	Ok
4	AR1248CCC500	PO107728.D	06 Nov 2024 10:01	YP/AJ	Ok
5	AR1254CCC500	PO107729.D	06 Nov 2024 10:17	YP/AJ	Ok,M
6	I.BLK	PO107730.D	06 Nov 2024 10:33	YP/AJ	Ok
7	PB164700BL	PO107731.D	06 Nov 2024 13:10	YP/AJ	Ok,M
8	PB164700BS	PO107732.D	06 Nov 2024 13:26	YP/AJ	Ok
9	P4709-01	PO107733.D	06 Nov 2024 13:42	YP/AJ	Ok
10	P4709-03	PO107734.D	06 Nov 2024 13:58	YP/AJ	Ok
11	P4706-01	PO107735.D	06 Nov 2024 14:14	YP/AJ	Ok,M
12	P4706-01MS	PO107736.D	06 Nov 2024 14:30	YP/AJ	Ok,M
13	P4706-01MSD	PO107737.D	06 Nov 2024 14:46	YP/AJ	Ok,M
14	P4707-01	PO107738.D	06 Nov 2024 15:03	YP/AJ	Ok
15	P4708-01	PO107739.D	06 Nov 2024 15:19	YP/AJ	Ok,M
16	P4718-01	PO107740.D	06 Nov 2024 15:35	YP/AJ	Ok
17	AR1660CCC500	PO107741.D	06 Nov 2024 16:54	YP/AJ	Ok
18	AR1242CCC500	PO107742.D	06 Nov 2024 17:10	YP/AJ	Ok
19	AR1248CCC500	PO107743.D	06 Nov 2024 17:26	YP/AJ	Ok
20	AR1254CCC500	PO107744.D	06 Nov 2024 17:43	YP/AJ	Ok,M
21	I.BLK	PO107745.D	06 Nov 2024 17:59	YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO110624

Review By	yogesh	Review On	11/7/2024 8:50:43 AM		
Supervise By	Ankita	Supervise On	11/7/2024 10:12:36 AM		
SubDirectory	PO110624	HP Acquire Method		HP Processing Method	PO101524

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
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164704BL	PO107746.D	06 Nov 2024 18:15	YP/AJ	Ok
23	PB164704BS	PO107747.D	06 Nov 2024 18:31	YP/AJ	Ok,M
24	PB164704BSD	PO107748.D	06 Nov 2024 18:47	YP/AJ	Ok,M
25	P4661-03	PO107749.D	06 Nov 2024 19:03	YP/AJ	Ok,M
26	P4684-03	PO107750.D	06 Nov 2024 19:20	YP/AJ	Ok
27	P4702-01	PO107751.D	06 Nov 2024 19:36	YP/AJ	Ok
28	P4704-01	PO107752.D	06 Nov 2024 19:52	YP/AJ	Dilution
29	P4704-02	PO107753.D	06 Nov 2024 20:08	YP/AJ	Ok,M
30	P4704-03	PO107754.D	06 Nov 2024 20:24	YP/AJ	Ok
31	P4718-04	PO107755.D	06 Nov 2024 20:41	YP/AJ	Ok
32	AR1660CCC500	PO107756.D	06 Nov 2024 21:42	YP/AJ	Ok
33	AR1242CCC500	PO107757.D	06 Nov 2024 21:58	YP/AJ	Ok
34	AR1248CCC500	PO107758.D	06 Nov 2024 22:14	YP/AJ	Ok,M
35	AR1254CCC500	PO107759.D	06 Nov 2024 22:30	YP/AJ	Ok,M
36	I.BLK	PO107760.D	06 Nov 2024 22:46	YP/AJ	Ok
37	P4718-02	PO107761.D	06 Nov 2024 23:02	YP/AJ	Ok
38	P4719-01	PO107762.D	06 Nov 2024 23:19	YP/AJ	Ok,M
39	AR1660CCC500	PO107763.D	07 Nov 2024 00:20	YP/AJ	Ok
40	AR1242CCC500	PO107764.D	07 Nov 2024 00:36	YP/AJ	Ok
41	AR1248CCC500	PO107765.D	07 Nov 2024 00:53	YP/AJ	Ok,M
42	AR1254CCC500	PO107766.D	07 Nov 2024 01:09	YP/AJ	Ok,M
43	I.BLK	PO107767.D	07 Nov 2024 01:25	YP/AJ	Ok

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

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	PO107180.D	15 Oct 2024 13:05		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO107181.D	15 Oct 2024 13:23	need ICAL	YP/AJ	Not Ok
3	HEXANE	HEXANE	PO107182.D	15 Oct 2024 17:50		YP/AJ	Ok
4	I.BLK	I.BLK	PO107183.D	15 Oct 2024 18:08		YP/AJ	Ok
5	AR1660ICC1000	AR1660ICC1000	PO107184.D	15 Oct 2024 18:27		YP/AJ	Ok
6	AR1660ICC750	AR1660ICC750	PO107185.D	15 Oct 2024 18:45		YP/AJ	Ok
7	AR1660ICC500	AR1660ICC500	PO107186.D	15 Oct 2024 19:03		YP/AJ	Ok
8	AR1660ICC250	AR1660ICC250	PO107187.D	15 Oct 2024 19:21		YP/AJ	Ok
9	AR1660ICC050	AR1660ICC050	PO107188.D	15 Oct 2024 19:39		YP/AJ	Ok,M
10	AR1221ICC500	AR1221ICC500	PO107189.D	15 Oct 2024 19:57		YP/AJ	Ok
11	AR1232ICC500	AR1232ICC500	PO107190.D	15 Oct 2024 20:15		YP/AJ	Ok
12	AR1242ICC1000	AR1242ICC1000	PO107191.D	15 Oct 2024 20:34		YP/AJ	Ok
13	AR1242ICC750	AR1242ICC750	PO107192.D	15 Oct 2024 20:52		YP/AJ	Ok
14	AR1242ICC500	AR1242ICC500	PO107193.D	15 Oct 2024 21:10		YP/AJ	Ok
15	AR1242ICC250	AR1242ICC250	PO107194.D	15 Oct 2024 21:28		YP/AJ	Ok
16	AR1242ICC050	AR1242ICC050	PO107195.D	15 Oct 2024 21:46		YP/AJ	Ok
17	AR1248ICC1000	AR1248ICC1000	PO107196.D	15 Oct 2024 22:04		YP/AJ	Ok
18	AR1248ICC750	AR1248ICC750	PO107197.D	15 Oct 2024 22:22		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

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	AR1248ICC500	AR1248ICC500	PO107198.D	15 Oct 2024 22:41		YP/AJ	Ok
20	AR1248ICC250	AR1248ICC250	PO107199.D	15 Oct 2024 22:59		YP/AJ	Ok
21	AR1248ICC050	AR1248ICC050	PO107200.D	15 Oct 2024 23:17		YP/AJ	Ok
22	AR1254ICC1000	AR1254ICC1000	PO107201.D	15 Oct 2024 23:35		YP/AJ	Ok
23	AR1254ICC750	AR1254ICC750	PO107202.D	15 Oct 2024 23:53		YP/AJ	Ok
24	AR1254ICC500	AR1254ICC500	PO107203.D	16 Oct 2024 00:11		YP/AJ	Ok
25	AR1254ICC250	AR1254ICC250	PO107204.D	16 Oct 2024 00:29		YP/AJ	Ok
26	AR1254ICC050	AR1254ICC050	PO107205.D	16 Oct 2024 00:47		YP/AJ	Ok
27	AR1262ICC500	AR1262ICC500	PO107206.D	16 Oct 2024 01:05		YP/AJ	Ok
28	AR1268ICC1000	AR1268ICC1000	PO107207.D	16 Oct 2024 01:23		YP/AJ	Ok
29	AR1268ICC750	AR1268ICC750	PO107208.D	16 Oct 2024 01:41		YP/AJ	Ok
30	AR1268ICC500	AR1268ICC500	PO107209.D	16 Oct 2024 01:59		YP/AJ	Ok
31	AR1268ICC250	AR1268ICC250	PO107210.D	16 Oct 2024 02:18		YP/AJ	Ok
32	AR1268ICC050	AR1268ICC050	PO107211.D	16 Oct 2024 02:36		YP/AJ	Ok,M
33	PO101524ICV500	ICVPO101524	PO107212.D	16 Oct 2024 02:54		YP/AJ	Ok
34	AR1242ICV500	ICVPO101524AR1242	PO107213.D	16 Oct 2024 03:12		YP/AJ	Ok
35	AR1248ICV500	ICVPO101524AR1248	PO107214.D	16 Oct 2024 03:30		YP/AJ	Ok
36	AR1254ICV500	ICVPO101524AR1254	PO107215.D	16 Oct 2024 03:48		YP/AJ	Ok
37	AR1268ICV500	ICVPO101524AR1268	PO107216.D	16 Oct 2024 04:06		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO101524

Review By	yogesh	Review On	10/16/2024 8:49:12 AM		
Supervise By	Ankita	Supervise On	10/16/2024 9:57:42 AM		
SubDirectory	PO101524	HP Acquire Method		HP Processing Method	PO101524

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	

M : Manual Integration

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO110624

Review By	yogesh	Review On	11/7/2024 8:50:43 AM		
Supervise By	Ankita	Supervise On	11/7/2024 10:12:36 AM		
SubDirectory	PO110624	HP Acquire Method		HP Processing Method	PO101524

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	PO107725.D	06 Nov 2024 09:13		YP/AJ	Ok
2	AR1660CCC500	AR1660CCC500	PO107726.D	06 Nov 2024 09:29		YP/AJ	Ok
3	AR1242CCC500	AR1242CCC500	PO107727.D	06 Nov 2024 09:45		YP/AJ	Ok
4	AR1248CCC500	AR1248CCC500	PO107728.D	06 Nov 2024 10:01		YP/AJ	Ok
5	AR1254CCC500	AR1254CCC500	PO107729.D	06 Nov 2024 10:17		YP/AJ	Ok,M
6	I.BLK	I.BLK	PO107730.D	06 Nov 2024 10:33		YP/AJ	Ok
7	PB164700BL	PB164700BL	PO107731.D	06 Nov 2024 13:10		YP/AJ	Ok,M
8	PB164700BS	PB164700BS	PO107732.D	06 Nov 2024 13:26		YP/AJ	Ok
9	P4709-01	HR-02-110424	PO107733.D	06 Nov 2024 13:42		YP/AJ	Ok
10	P4709-03	HR-03-110424	PO107734.D	06 Nov 2024 13:58		YP/AJ	Ok
11	P4706-01	TR-04-110424	PO107735.D	06 Nov 2024 14:14		YP/AJ	Ok,M
12	P4706-01MS	TR-04-110424MS	PO107736.D	06 Nov 2024 14:30		YP/AJ	Ok,M
13	P4706-01MSD	TR-04-110424MSD	PO107737.D	06 Nov 2024 14:46		YP/AJ	Ok,M
14	P4707-01	HD-02-110424	PO107738.D	06 Nov 2024 15:03		YP/AJ	Ok
15	P4708-01	OR-02-110424	PO107739.D	06 Nov 2024 15:19		YP/AJ	Ok,M
16	P4718-01	WB-307-SB01	PO107740.D	06 Nov 2024 15:35		YP/AJ	Ok
17	AR1660CCC500	AR1660CCC500	PO107741.D	06 Nov 2024 16:54		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO110624

Review By	yogesh	Review On	11/7/2024 8:50:43 AM		
Supervise By	Ankita	Supervise On	11/7/2024 10:12:36 AM		
SubDirectory	PO110624	HP Acquire Method		HP Processing Method	PO101524

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	

18	AR1242CCC500	AR1242CCC500	PO107742.D	06 Nov 2024 17:10	AR1242 3 peak low in 1st column	YP/AJ	Ok
19	AR1248CCC500	AR1248CCC500	PO107743.D	06 Nov 2024 17:26		YP/AJ	Ok
20	AR1254CCC500	AR1254CCC500	PO107744.D	06 Nov 2024 17:43		YP/AJ	Ok,M
21	I.BLK	I.BLK	PO107745.D	06 Nov 2024 17:59		YP/AJ	Ok
22	PB164704BL	PB164704BL	PO107746.D	06 Nov 2024 18:15		YP/AJ	Ok
23	PB164704BS	PB164704BS	PO107747.D	06 Nov 2024 18:31		YP/AJ	Ok,M
24	PB164704BSD	PB164704BSD	PO107748.D	06 Nov 2024 18:47		YP/AJ	Ok,M
25	P4661-03	102324-A	PO107749.D	06 Nov 2024 19:03		YP/AJ	Ok,M
26	P4684-03	MECHANIC-ST-OIL-WA	PO107750.D	06 Nov 2024 19:20		YP/AJ	Ok
27	P4702-01	TOTE-1	PO107751.D	06 Nov 2024 19:36		YP/AJ	Ok
28	P4704-01	NWB-2111	PO107752.D	06 Nov 2024 19:52	AR1242 Hit, Need 10x Dilution	YP/AJ	Dilution
29	P4704-02	NWB-2056	PO107753.D	06 Nov 2024 20:08		YP/AJ	Ok,M
30	P4704-03	NWB-2108	PO107754.D	06 Nov 2024 20:24		YP/AJ	Ok
31	P4718-04	WB-307-SW	PO107755.D	06 Nov 2024 20:41		YP/AJ	Ok
32	AR1660CCC500	AR1660CCC500	PO107756.D	06 Nov 2024 21:42		YP/AJ	Ok
33	AR1242CCC500	AR1242CCC500	PO107757.D	06 Nov 2024 21:58		YP/AJ	Ok
34	AR1248CCC500	AR1248CCC500	PO107758.D	06 Nov 2024 22:14		YP/AJ	Ok,M
35	AR1254CCC500	AR1254CCC500	PO107759.D	06 Nov 2024 22:30		YP/AJ	Ok,M
36	I.BLK	I.BLK	PO107760.D	06 Nov 2024 22:46		YP/AJ	Ok

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Instrument ID: ECD_O

Daily Analysis Runlog For Sequence/QCBatch ID # PO110624

Review By	yogesh	Review On	11/7/2024 8:50:43 AM		
Supervise By	Ankita	Supervise On	11/7/2024 10:12:36 AM		
SubDirectory	PO110624	HP Acquire Method		HP Processing Method	PO101524

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	

37	P4718-02	WB-307-SB02	PO107761.D	06 Nov 2024 23:02		YP/AJ	Ok
38	P4719-01	BAYAVE-STOCKPILE	PO107762.D	06 Nov 2024 23:19	AR1254 Hit	YP/AJ	Ok,M
39	AR1660CCC500	AR1660CCC500	PO107763.D	07 Nov 2024 00:20		YP/AJ	Ok
40	AR1242CCC500	AR1242CCC500	PO107764.D	07 Nov 2024 00:36		YP/AJ	Ok
41	AR1248CCC500	AR1248CCC500	PO107765.D	07 Nov 2024 00:53		YP/AJ	Ok,M
42	AR1254CCC500	AR1254CCC500	PO107766.D	07 Nov 2024 01:09		YP/AJ	Ok,M
43	I.BLK	I.BLK	PO107767.D	07 Nov 2024 01:25		YP/AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB164700

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: Acid Cleanup

Matrix : Solid

Weigh By: RJ

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 11/06/2024

Extraction Start Time : 09:10

Extraction End Date : 11/06/2024

Extraction End Time : 12:10

Concentration By: RS

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	EP2556
Hexane	N/A	E3825
Sand	N/A	E2865
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/6/24	RP (EPA lab)	AJ (EST PCB lab)
12:15	**Preparation Group**	**Analysis Group**

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EXTRACTION LOGPAGE

PrepBatch ID : PB164700

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164700BL	ABLK700	PCB	30.01	N/A	ritesh	RUPESH	10			U5-1
PB164700BS	ALCS700	PCB	30.03	N/A	ritesh	RUPESH	10			2
P4706-01	TR-04-110424	PCB	30.09	N/A	ritesh	RUPESH	10	D		3
P4706-01MS	TR-04-110424MS	PCB	30.03	N/A	ritesh	RUPESH	10	D		4
P4706-01MSD	TR-04-110424MSD	PCB	30.05	N/A	ritesh	RUPESH	10	D		5
P4707-01	HD-02-110424	PCB	30.02	N/A	ritesh	RUPESH	10	D		6
P4708-01	OR-02-110424	PCB	30.01	N/A	ritesh	RUPESH	10	D		U6-1
P4709-01	HR-02-110424	PCB	30.10	N/A	ritesh	RUPESH	10	D		2
P4709-03	HR-03-110424	PCB	30.08	N/A	ritesh	RUPESH	10	D		3
P4718-01	WB-307-SB01	PCB	30.06	N/A	ritesh	RUPESH	10	E		4
P4718-02	WB-307-SB02	PCB	30.03	N/A	ritesh	RUPESH	10	E		5
P4719-01	BAYAVE-STOCKPILE	PCB	30.05	N/A	ritesh	RUPESH	10	E		6

* **Extracts relinguished on the same date as received.**

P4706 9:10

P4718

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4706 **WorkList ID :** 185154 **Department :** Extraction **Date :** 11-06-2024 08:17:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4706-01	TR-04-110424	Solid	PCB	Cool 4 deg C	PSEG05	L23	11/04/2024	8082A
P4707-01	HD-02-110424	Solid	PCB	Cool 4 deg C	PSEG05	L23	11/04/2024	8082A
P4708-01	OR-02-110424	Solid	PCB	Cool 4 deg C	PSEG05	L23	11/04/2024	8082A
P4709-01	HR-02-110424	Solid	PCB	Cool 4 deg C	PSEG05	L23	11/04/2024	8082A
P4709-03	HR-03-110424	Solid	PCB	Cool 4 deg C	PSEG05	L23	11/04/2024	8082A
P4718-01	WB-307-SB01	Solid	PCB	Cool 4 deg C	PORT06	L21	11/04/2024	8082A
P4718-02	WB-307-SB02	Solid	PCB	Cool 4 deg C	PORT06	L21	11/04/2024	8082A
P4719-01	BAYAVE-STOCKPILE	Solid	PCB	Cool 4 deg C	PSEG03	K21	11/05/2024	8082A

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Date/Time 11/6/24 9:05
Raw Sample Received by: RJ (Ent Lmb)
Raw Sample Relinquished by:

Date/Time 11/6/24 9:30
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ent Lmb)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164704

SOP ID:	M3510C,3580A-Extraction PCB-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	11/06/2024
Matrix :	Water			**Extraction Start Time :**	08:25
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	11/06/2024
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	13:25
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	E3574	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	200 PPB	PP23858
Spike Sol 1	1.0ML	5000 PPB	PP23640
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3823
Baked Na2SO4	N/A	EP2556
Hexane	N/A	E3823
H2SO4 1:1	N/A	EP2524
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721. P4718-04 Limited volume recd.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/6/24	RP (Ext Lab)	AJ / Ext PCB Lab
13:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164704

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 11/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164704BL	ABLK704	PCB	1000	6	RUPESH	rajesh	10			SEP-01
PB164704BS	ALCS704	PCB	1000	6	RUPESH	rajesh	10			2
PB164704BSD	ALCSD704	PCB	1000	6	RUPESH	rajesh	10			3
P4661-03	102324-A	PCB	970	6	RUPESH	rajesh	10	C		4
P4684-03	MECHANIC-ST-OIL-WATER	PCB	990	6	RUPESH	rajesh	10	D		5
P4702-01	TOTE-1	PCB	980	6	RUPESH	rajesh	10	E		6
P4704-01	NWB-2111	PCB	1000	6	RUPESH	rajesh	10	D		7
P4704-02	NWB-2056	PCB	1000	6	RUPESH	rajesh	10	D		8
P4704-03	NWB-2108	PCB	1000	6	RUPESH	rajesh	10	D		9
P4718-04	WB-307-SW	PCB	450	6	RUPESH	rajesh	5	F		10

* **Extracts relinquished on the same date as received.**

11/6/24

P4718

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4661P **WorkList ID :** 185157 **Department :** Extraction **Date :** 11-06-2024 08:21:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4661-03	102324-A	Water	PCB	Cool 4 deg C	PSEG03	K51	10/31/2024	8082A
P4684-03	MECHANIC-ST-OIL-WATER	Water	PCB	Cool 4 deg C	PSEG03	L13	11/01/2024	8082A
P4702-01	TOTE-1	Water	PCB	Cool 4 deg C	PSEG03	L23	11/04/2024	8082A
P4704-01	NWB-2111	Water	PCB	Cool 4 deg C	PSEG03	L23	11/04/2024	8082A
P4704-02	NWB-2056	Water	PCB	Cool 4 deg C	PSEG03	L23	11/04/2024	8082A
P4704-03	NWB-2108	Water	PCB	Cool 4 deg C	PSEG03	L23	11/04/2024	8082A
P4718-04	WB-307-SW	Water	PCB	Cool 4 deg C	PORT06	L21	11/04/2024	8082A

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Date/Time 11/6/24 8:23
Raw Sample Received by: RJ (Eat Lab)
Raw Sample Relinquished by: JD CSM)

Date/Time 11/6/24 9:00
Raw Sample Received by: JD CSM)
Raw Sample Relinquished by: RJ (Eat Lab)

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

LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
P4718-04	**WB-307-SW**	**WATER**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	

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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4718 **Order ID:** P4718

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092983.D	1	11/10/24 08:44	11/11/24 22:47	PB164849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.6		30 (43) - 150 (140)	73%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/10/24
Client Sample ID:	PB164694TB	SDG No.:	P4718
Lab Sample ID:	PB164694TB	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092946.D	1	11/10/24 08:44	11/11/24 12:40	PB164849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.049	U	0.049	0.50	ug/L
76-44-8	Heptachlor	0.054	U	0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.090	U	0.090	0.50	ug/L
72-20-8	Endrin	0.043	U	0.043	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		30 (43) - 150 (140)	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092652.D	PIBLK-PL092652.D	Decachlorobiphenyl	1	20	22.7	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.6	108		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
I.BLK-PL092941.D	PIBLK-PL092941.D	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.3	112		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.8	99		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.6	108		30 (77)	150 (126)
PB164849BL	PB164849BL	Decachlorobiphenyl	1	20	21.1	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.7	104		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.5	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.1	101		30 (77)	150 (126)
PB164849BS	PB164849BS	Decachlorobiphenyl	1	20	19.3	96		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.1	95		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	18.9	94		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	17.9	90		30 (77)	150 (126)
PB164694TB	PB164694TB	Decachlorobiphenyl	1	20	21.2	106		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.1	101		30 (77)	150 (126)
I.BLK-PL092959.D	PIBLK-PL092959.D	Decachlorobiphenyl	1	20	22.0	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.1	110		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.2	111		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.5	107		30 (77)	150 (126)
I.BLK-PL092971.D	PIBLK-PL092971.D	Decachlorobiphenyl	1	20	21.6	108		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.7	114		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	20.6	103		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.6	108		30 (77)	150 (126)
P4718-03	WB-307-SB02	Decachlorobiphenyl	1	20	14.6	73		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	12.7	63		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.1	101		30 (77)	150 (126)
P4718-03MS	WB-307-SB02MS	Decachlorobiphenyl	1	20	14.1	71		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	24.6	123		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	13.1	66		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.3	96		30 (77)	150 (126)
P4718-03MSD	WB-307-SB02MSD	Decachlorobiphenyl	1	20	14.4	72		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	24.6	123		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	13.2	66		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.3	97		30 (77)	150 (126)
I.BLK-PL092992.D	PIBLK-PL092992.D	Decachlorobiphenyl	1	20	22.2	111		30 (43)	150 (140)

( ) = LABORATORY INHOUSE LIMIT

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

Surrogate Summary

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092992.D	PIBLK-PL092992.D	Tetrachloro-m-xylene	1	20	22.8	114		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.8	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	22.2	111		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL092984.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:	**WB-307-SB02MS**											
P4718-03MS	gamma-BHC (Lindane)	5	0	4.90	ug/L	98				30 (60)	150 (152)	
	Heptachlor	5	0	5.40	ug/L	108				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	5.30	ug/L	106				30 (77)	150 (143)	
	Endrin	5	0	5.20	ug/L	104				30 (76)	150 (144)	
	Methoxychlor	5	0	4.80	ug/L	96				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL092985.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:	**WB-307-SB02MSD**											
P4718-03MSD	gamma-BHC (Lindane)	5	0	4.90	ug/L	98		0		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	5.50	ug/L	110		2		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	5.30	ug/L	106		0		30 (77)	150 (143)	20 (20)
	Endrin	5	0	5.40	ug/L	108		4		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	4.80	ug/L	96		0		30 (70)	150 (142)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PL092945.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164849BS	gamma-BHC (Lindane)	0.5	0.51	ug/L	102				40 (82)	140 (129)	
	Heptachlor	0.5	0.53	ug/L	106				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.53	ug/L	107				40 (81)	140 (124)	
	Endrin	0.5	0.53	ug/L	106				40 (81)	140 (128)	
	Methoxychlor	0.5	0.50	ug/L	100				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164849BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164849BL Lab File ID: PL092944.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/10/2024

Date Analyzed (1): 11/11/2024 Date Analyzed (2): 11/11/2024

Time Analyzed (1): 12:12 Time Analyzed (2): 12:12

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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
PB164849BS	PB164849BS	PL092945.D	11/11/2024	11/11/2024
PB164694TB	PB164694TB	PL092946.D	11/11/2024	11/11/2024
WB-307-SB02	P4718-03	PL092983.D	11/11/2024	11/11/2024
WB-307-SB02MS	P4718-03MS	PL092984.D	11/11/2024	11/11/2024
WB-307-SB02MSD	P4718-03MSD	PL092985.D	11/11/2024	11/11/2024

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164849BL	SDG No.:	P4718
Lab Sample ID:	PB164849BL	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092944.D	1	11/10/24 08:44	11/11/24 12:12	PB164849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.1		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		30 (77) - 150 (126)	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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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		30 (77) - 150 (126)	108%	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:	11/11/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/11/24
Client Sample ID:	PIBLK-PL092941.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PL092941.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092941.D	1		11/11/24	PL111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.3		30 (77) - 150 (126)	112%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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:	11/11/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/11/24
Client Sample ID:	PIBLK-PL092959.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PL092959.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092959.D	1		11/11/24	PL111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.2		30 (43) - 150 (140)	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.1		30 (77) - 150 (126)	110%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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:	11/11/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/11/24
Client Sample ID:	PIBLK-PL092971.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PL092971.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092971.D	1		11/11/24	PL111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.6		30 (43) - 150 (140)	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		30 (77) - 150 (126)	114%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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:	11/12/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/12/24
Client Sample ID:	PIBLK-PL092992.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PL092992.D	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092992.D	1		11/12/24	PL111124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.2		30 (43) - 150 (140)	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.8		30 (77) - 150 (126)	114%	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:	PB164849BS	SDG No.:	P4718
Lab Sample ID:	PB164849BS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092945.D	1	11/10/24 08:44	11/11/24 12:26	PB164849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.51		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.53		0.0054	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.53		0.0090	0.050	ug/L
72-20-8	Endrin	0.53		0.0043	0.050	ug/L
72-43-5	Methoxychlor	0.50		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
57-74-9	Chlordane	0.082	U	0.082	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		30 (43) - 150 (140)	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		30 (77) - 150 (126)	95%	SPK: 20

Comments:

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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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-03MS	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092984.D	1	11/10/24 08:44	11/11/24 23:01	PB164849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	4.90		0.049	0.50	ug/L
76-44-8	Heptachlor	5.40		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.30		0.090	0.50	ug/L
72-20-8	Endrin	5.20		0.043	0.50	ug/L
72-43-5	Methoxychlor	4.80		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.1		30 (43) - 150 (140)	71%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.6		30 (77) - 150 (126)	123%	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-03MSD	Matrix:	TCLP
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Pesticide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092985.D	1	11/10/24 08:44	11/11/24 23:14	PB164849

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	4.90		0.049	0.50	ug/L
76-44-8	Heptachlor	5.50		0.054	0.50	ug/L
1024-57-3	Heptachlor epoxide	5.30		0.090	0.50	ug/L
72-20-8	Endrin	5.40		0.043	0.50	ug/L
72-43-5	Methoxychlor	4.80		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.50	U	1.50	10.0	ug/L
57-74-9	Chlordane	0.82	U	0.82	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.4		30 (43) - 150 (140)	72%	SPK: 20
877-09-8	Tetrachloro-m-xylene	24.6		30 (77) - 150 (126)	123%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
Endrin	6.58	6.58	6.57	6.57	6.57	6.57	6.47	6.67
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
Heptachlor	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Heptachlor epoxide	5.69	5.69	5.68	5.69	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	7.92	7.92	7.92	7.92	7.92	7.92	7.82	8.02
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
Heptachlor	3.95	3.95	3.95	3.95	3.95	3.95	3.85	4.05
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.62	6.62	6.62	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_L

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	1738840000	1756630000	1819720000	1998760000	2308800000	1924550000	12
Endrin	2111540000	2103000000	2121260000	2324460000	2723040000	2276660000	12
gamma-BHC (Lindane)	3198960000	3133030000	3104430000	3278360000	3583040000	3259560000	6
Heptachlor	2817300000	2795570000	2829220000	3064000000	3509480000	3003110000	10
Heptachlor epoxide	2536240000	2521530000	2566410000	2821600000	3361270000	2761410000	13
Methoxychlor	1040530000	1050870000	1078280000	1189160000	1341160000	1140000000	11
Tetrachloro-m-xylene	2319350000	2304070000	2328420000	2512350000	2786990000	2450240000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_L

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	2606810000	2575500000	2605540000	2793460000	3064890000	2729240000	8
Endrin	2969490000	2878380000	2828080000	2876210000	2912860000	2893010000	2
gamma-BHC (Lindane)	4083950000	3934430000	3833920000	3828430000	3616530000	3859450000	4
Heptachlor	3876200000	3766580000	3709120000	3779090000	3738650000	3773930000	2
Heptachlor epoxide	3405420000	3318630000	3272090000	3352830000	3358060000	3341410000	1
Methoxychlor	1400820000	1385450000	1393920000	1470360000	1489590000	1428030000	3
Tetrachloro-m-xylene	2724750000	2661560000	2643180000	2728430000	2847900000	2721160000	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	4.70	4.60	4.80	106996000
		2	5.23	5.13	5.33	110397000
		3	5.94	5.84	6.04	372388000
		4	6.02	5.92	6.12	458405000
		5	6.87	6.77	6.97	92161100
Toxaphene	500	1	6.24	6.14	6.34	23962400
		2	6.44	6.34	6.54	13823600
		3	7.06	6.96	7.16	79159800
		4	7.15	7.05	7.25	59803700
		5	7.93	7.83	8.03	45329200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.78	3.68	3.88	105092000
		2	4.35	4.25	4.45	120641000
		3	4.98	4.88	5.08	361048000
		4	5.05	4.95	5.15	346821000
		5	5.94	5.84	6.04	124060000
Toxaphene	500	1	5.01	4.91	5.11	19952700
		2	5.33	5.23	5.43	19749600
		3	6.61	6.51	6.71	70222500
		4	6.73	6.63	6.83	98337700
		5	7.05	6.95	7.15	65479700

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 11:58 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 11:58 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/11/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092943.D **Time Analyzed:** 11:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.061	8.954	9.154	46.430	50.000	-7.1
Endrin	6.579	6.474	6.674	43.850	50.000	-12.3
gamma-BHC (Lindane)	4.331	4.228	4.428	49.900	50.000	-0.2
Heptachlor	4.920	4.817	5.017	47.730	50.000	-4.5
Heptachlor epoxide	5.688	5.584	5.784	48.400	50.000	-3.2
Methoxychlor	7.504	7.399	7.599	44.210	50.000	-11.6
Tetrachloro-m-xylene	3.542	3.440	3.640	49.960	50.000	-0.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/11/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092943.D **Time Analyzed:** 11:58

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.919	7.816	8.016	46.770	50.000	-6.5
Endrin	5.643	5.541	5.741	50.950	50.000	1.9
gamma-BHC (Lindane)	3.611	3.511	3.711	52.560	50.000	5.1
Heptachlor	3.951	3.849	4.049	50.950	50.000	1.9
Heptachlor epoxide	4.733	4.632	4.832	52.470	50.000	4.9
Methoxychlor	6.617	6.515	6.715	46.930	50.000	-6.1
Tetrachloro-m-xylene	2.778	2.678	2.878	51.750	50.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 16:49 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Methoxychlor	7.51	7.50	7.40	7.60	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 16:49 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/11/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092960.D **Time Analyzed:** 16:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.064	8.954	9.154	45.750	50.000	-8.5
Endrin	6.580	6.474	6.674	43.680	50.000	-12.6
gamma-BHC (Lindane)	4.332	4.228	4.428	49.740	50.000	-0.5
Heptachlor	4.921	4.817	5.017	46.230	50.000	-7.5
Heptachlor epoxide	5.689	5.584	5.784	48.040	50.000	-3.9
Methoxychlor	7.506	7.399	7.599	41.600	50.000	-16.8
Tetrachloro-m-xylene	3.543	3.440	3.640	50.620	50.000	1.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/11/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092960.D **Time Analyzed:** 16:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.920	7.816	8.016	47.520	50.000	-5.0
Endrin	5.643	5.541	5.741	51.290	50.000	2.6
gamma-BHC (Lindane)	3.611	3.511	3.711	52.740	50.000	5.5
Heptachlor	3.950	3.849	4.049	49.830	50.000	-0.3
Heptachlor epoxide	4.733	4.632	4.832	52.930	50.000	5.9
Methoxychlor	6.617	6.515	6.715	45.570	50.000	-8.9
Tetrachloro-m-xylene	2.779	2.678	2.878	51.800	50.000	3.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 20:14 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Methoxychlor	7.51	7.50	7.40	7.60	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/11/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 20:14 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/11/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092973.D **Time Analyzed:** 20:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.063	8.954	9.154	43.000	50.000	-14.0
Endrin	6.579	6.474	6.674	43.010	50.000	-14.0
gamma-BHC (Lindane)	4.331	4.228	4.428	48.520	50.000	-3.0
Heptachlor	4.920	4.817	5.017	45.380	50.000	-9.2
Heptachlor epoxide	5.688	5.584	5.784	47.490	50.000	-5.0
Methoxychlor	7.505	7.399	7.599	42.350	50.000	-15.3
Tetrachloro-m-xylene	3.542	3.440	3.640	49.410	50.000	-1.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL03 **Date Analyzed:** 11/11/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092973.D **Time Analyzed:** 20:14

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.920	7.816	8.016	44.340	50.000	-11.3
Endrin	5.644	5.541	5.741	48.560	50.000	-2.9
gamma-BHC (Lindane)	3.612	3.511	3.711	50.790	50.000	1.6
Heptachlor	3.951	3.849	4.049	48.630	50.000	-2.7
Heptachlor epoxide	4.734	4.632	4.832	50.070	50.000	0.1
Methoxychlor	6.618	6.515	6.715	43.670	50.000	-12.7
Tetrachloro-m-xylene	2.779	2.678	2.878	50.370	50.000	0.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/12/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 01:06 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/12/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 01:06 **Initial Calibration Time(s):** 14:43 15:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/12/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092993.D **Time Analyzed:** 01:06

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.062	8.954	9.154	45.740	50.000	-8.5
Endrin	6.579	6.474	6.674	42.020	50.000	-16.0
gamma-BHC (Lindane)	4.331	4.228	4.428	49.360	50.000	-1.3
Heptachlor	4.919	4.817	5.017	45.840	50.000	-8.3
Heptachlor epoxide	5.686	5.584	5.784	47.100	50.000	-5.8
Methoxychlor	7.504	7.399	7.599	40.210	50.000	-19.6
Tetrachloro-m-xylene	3.542	3.440	3.640	50.220	50.000	0.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL04 **Date Analyzed:** 11/12/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092993.D **Time Analyzed:** 01:06

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.920	7.816	8.016	46.990	50.000	-6.0
Endrin	5.643	5.541	5.741	48.620	50.000	-2.8
gamma-BHC (Lindane)	3.611	3.511	3.711	52.480	50.000	5.0
Heptachlor	3.950	3.849	4.049	49.220	50.000	-1.6
Heptachlor epoxide	4.733	4.632	4.832	51.790	50.000	3.6
Methoxychlor	6.617	6.515	6.715	42.960	50.000	-14.1
Tetrachloro-m-xylene	2.778	2.678	2.878	51.720	50.000	3.4

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.059	8.960	9.160	19.970	20.000	-0.2
Tetrachloro-m-xylene	3.546	3.500	3.600	19.290	20.000	-3.6
alpha-BHC	4.001	3.950	4.050	9.920	10.000	-0.8
beta-BHC	4.531	4.480	4.580	10.060	10.000	0.6
gamma-BHC (Lindane)	4.334	4.280	4.380	9.660	10.000	-3.4
Endrin	6.580	6.510	6.650	41.060	50.000	-17.9
4,4'-DDT	7.030	6.960	7.100	88.060	100.000	-11.9
Methoxychlor	7.505	7.430	7.580	204.090	250.000	-18.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	19.080	20.000	-4.6
Tetrachloro-m-xylene	2.778	2.730	2.830	18.500	20.000	-7.5
alpha-BHC	3.281	3.230	3.330	8.630	10.000	-13.7
beta-BHC	3.911	3.860	3.960	9.760	10.000	-2.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.390	10.000	-16.1
Endrin	5.643	5.570	5.710	44.130	50.000	-11.7
4,4'-DDT	6.042	5.970	6.110	98.070	100.000	-1.9
Methoxychlor	6.616	6.550	6.690	225.800	250.000	-9.7

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092942.D **Date Analyzed:** 11/11/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.061	8.960	9.160	20.400	20.000	2.0
Tetrachloro-m-xylene	3.542	3.490	3.590	22.810	20.000	14.1
alpha-BHC	3.998	3.950	4.050	11.770	10.000	17.7
beta-BHC	4.529	4.480	4.580	12.130	10.000	21.3
gamma-BHC (Lindane)	4.331	4.280	4.380	11.570	10.000	15.7
Endrin	6.578	6.510	6.650	42.290	50.000	-15.4
4,4'-DDT	7.028	6.960	7.100	86.420	100.000	-13.6
Methoxychlor	7.504	7.430	7.570	198.890	250.000	-20.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092942.D **Date Analyzed:** 11/11/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:49

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	19.450	20.000	-2.8
Tetrachloro-m-xylene	2.778	2.730	2.830	22.330	20.000	11.7
alpha-BHC	3.280	3.230	3.330	10.690	10.000	6.9
beta-BHC	3.911	3.860	3.960	11.740	10.000	17.4
gamma-BHC (Lindane)	3.611	3.560	3.660	10.280	10.000	2.8
Endrin	5.643	5.570	5.710	50.510	50.000	1.0
4,4'-DDT	6.041	5.970	6.110	105.500	100.000	5.5
Methoxychlor	6.616	6.550	6.690	225.180	250.000	-9.9

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092972.D **Date Analyzed:** 11/11/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 20:00

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.062	8.960	9.160	20.460	20.000	2.3
Tetrachloro-m-xylene	3.542	3.490	3.590	22.530	20.000	12.7
alpha-BHC	3.998	3.950	4.050	11.450	10.000	14.5
beta-BHC	4.529	4.480	4.580	11.720	10.000	17.2
gamma-BHC (Lindane)	4.331	4.280	4.380	11.150	10.000	11.5
Endrin	6.579	6.510	6.650	41.830	50.000	-16.3
4,4'-DDT	7.029	6.960	7.100	82.830	100.000	-17.2
Methoxychlor	7.506	7.440	7.580	196.860	250.000	-21.3

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092972.D **Date Analyzed:** 11/11/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 20:00

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.920	7.820	8.020	19.420	20.000	-2.9
Tetrachloro-m-xylene	2.779	2.730	2.830	21.700	20.000	8.5
alpha-BHC	3.282	3.230	3.330	10.340	10.000	3.4
beta-BHC	3.912	3.860	3.960	11.670	10.000	16.7
gamma-BHC (Lindane)	3.612	3.560	3.660	9.880	10.000	-1.2
Endrin	5.644	5.570	5.710	48.440	50.000	-3.1
4,4'-DDT	6.042	5.970	6.110	95.830	100.000	-4.2
Methoxychlor	6.618	6.550	6.690	221.160	250.000	-11.5

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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	10/28/2024	13:55	PL092652.D	9.05	3.54
PEM	PEM	10/28/2024	14:16	PL092653.D	9.06	3.55
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	9.05	3.54
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	9.05	3.54
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	9.05	3.54
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	9.05	3.54
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	9.05	3.54
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	9.05	3.54
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	9.06	3.54
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	9.05	3.54
I.BLK	I.BLK	11/11/2024	09:35	PL092941.D	9.06	3.54
PEM	PEM	11/11/2024	09:49	PL092942.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/11/2024	11:58	PL092943.D	9.06	3.54
PB164849BL	PB164849BL	11/11/2024	12:12	PL092944.D	9.06	3.54
PB164849BS	PB164849BS	11/11/2024	12:26	PL092945.D	9.06	3.54
PB164694TB	PB164694TB	11/11/2024	12:40	PL092946.D	9.06	3.54
I.BLK	I.BLK	11/11/2024	16:35	PL092959.D	9.07	3.55
PSTDCCC050	PSTDCCC050	11/11/2024	16:49	PL092960.D	9.06	3.54
I.BLK	I.BLK	11/11/2024	19:46	PL092971.D	9.06	3.54
PEM	PEM	11/11/2024	20:00	PL092972.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/11/2024	20:14	PL092973.D	9.06	3.54
WB-307-SB02	P4718-03	11/11/2024	22:47	PL092983.D	9.06	3.54
WB-307-SB02MS	P4718-03MS	11/11/2024	23:01	PL092984.D	9.06	3.54
WB-307-SB02MSD	P4718-03MSD	11/11/2024	23:14	PL092985.D	9.06	3.54
I.BLK	I.BLK	11/12/2024	00:52	PL092992.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/12/2024	01:06	PL092993.D	9.06	3.54

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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	10/28/2024	13:55	PL092652.D	7.92	2.78
PEM	PEM	10/28/2024	14:16	PL092653.D	7.92	2.78
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	7.92	2.78
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	7.92	2.78
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	7.92	2.78
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	7.92	2.78
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	7.92	2.78
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	7.92	2.78
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	7.92	2.78
I.BLK	I.BLK	11/11/2024	09:35	PL092941.D	7.92	2.78
PEM	PEM	11/11/2024	09:49	PL092942.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/11/2024	11:58	PL092943.D	7.92	2.78
PB164849BL	PB164849BL	11/11/2024	12:12	PL092944.D	7.92	2.78
PB164849BS	PB164849BS	11/11/2024	12:26	PL092945.D	7.92	2.78
PB164694TB	PB164694TB	11/11/2024	12:40	PL092946.D	7.92	2.78
I.BLK	I.BLK	11/11/2024	16:35	PL092959.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/11/2024	16:49	PL092960.D	7.92	2.78
I.BLK	I.BLK	11/11/2024	19:46	PL092971.D	7.92	2.78
PEM	PEM	11/11/2024	20:00	PL092972.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/11/2024	20:14	PL092973.D	7.92	2.78
WB-307-SB02	P4718-03	11/11/2024	22:47	PL092983.D	7.92	2.78
WB-307-SB02MS	P4718-03MS	11/11/2024	23:01	PL092984.D	7.92	2.78
WB-307-SB02MSD	P4718-03MSD	11/11/2024	23:14	PL092985.D	7.92	2.78
I.BLK	I.BLK	11/12/2024	00:52	PL092992.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/12/2024	01:06	PL092993.D	7.92	2.78

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
PB164849BS

Contract: PORT06
Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718
Lab Sample ID: PB164849BS **Date(s) Analyzed:** 11/11/2024 11/11/2024
Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L
GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.51	7.46	7.56	0.46	8.6
	2	6.62	6.57	6.67	0.50	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.48	6
	2	3.61	3.56	3.66	0.51	
Heptachlor	1	4.92	4.87	4.97	0.49	7.5
	2	3.95	3.90	4.00	0.53	
Heptachlor epoxide	1	5.69	5.64	5.74	0.48	10.6
	2	4.73	4.68	4.78	0.53	
Endrin	1	6.58	6.53	6.63	0.44	18.6
	2	5.64	5.59	5.69	0.53	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
WB-307-SB02MS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Lab Sample ID: P4718-03MS **Date(s) Analyzed:** 11/11/2024 11/11/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin	1	6.58	6.53	6.63	4.40	16.7
	2	5.64	5.59	5.69	5.20	
Methoxychlor	1	7.51	7.46	7.56	4.50	6.5
	2	6.62	6.57	6.67	4.80	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	4.60	6.3
	2	3.61	3.56	3.66	4.90	
Heptachlor	1	4.92	4.87	4.97	5.00	7.7
	2	3.95	3.90	4.00	5.40	
Heptachlor epoxide	1	5.69	5.64	5.74	4.70	12
	2	4.73	4.68	4.78	5.30	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-307-SB02MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Lab Sample ID: P4718-03MSD **Date(s) Analyzed:** 11/11/2024 11/11/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	4.50	6.5
	2	6.62	6.57	6.67	4.80	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	4.60	6.3
	2	3.61	3.56	3.66	4.90	
Heptachlor	1	4.92	4.87	4.97	5.00	9.5
	2	3.95	3.90	4.00	5.50	
Heptachlor epoxide	1	5.69	5.64	5.74	4.80	9.9
	2	4.73	4.68	4.78	5.30	
Endrin	1	6.58	6.53	6.63	4.50	18.2
	2	5.64	5.59	5.69	5.40	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 22:47
Operator : AR\AJ
Sample : P4718-03
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-307-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 00:37:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.542	2.778	50433730	54798091	20.583	20.138
28)	SA Decachlor...	9.061	7.919	28120365	34581119	14.611	12.671
	Target Compounds						

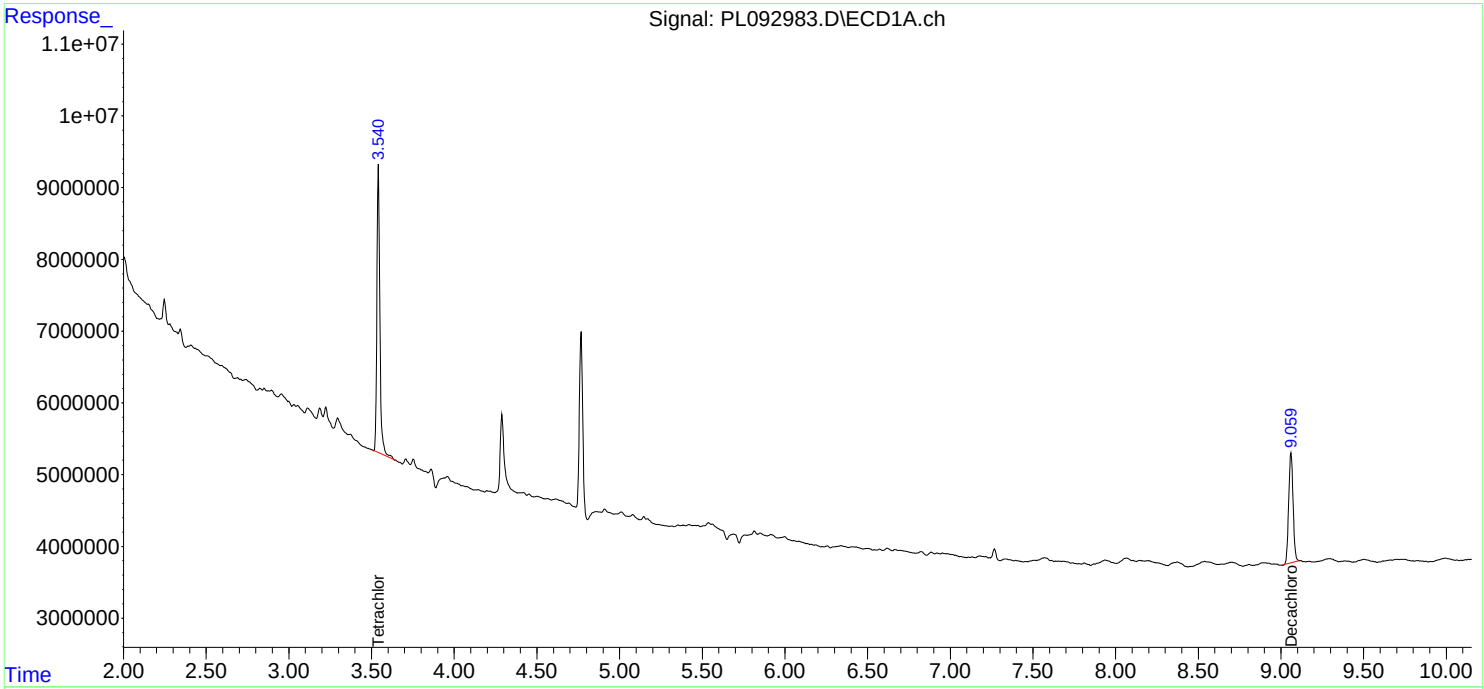
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

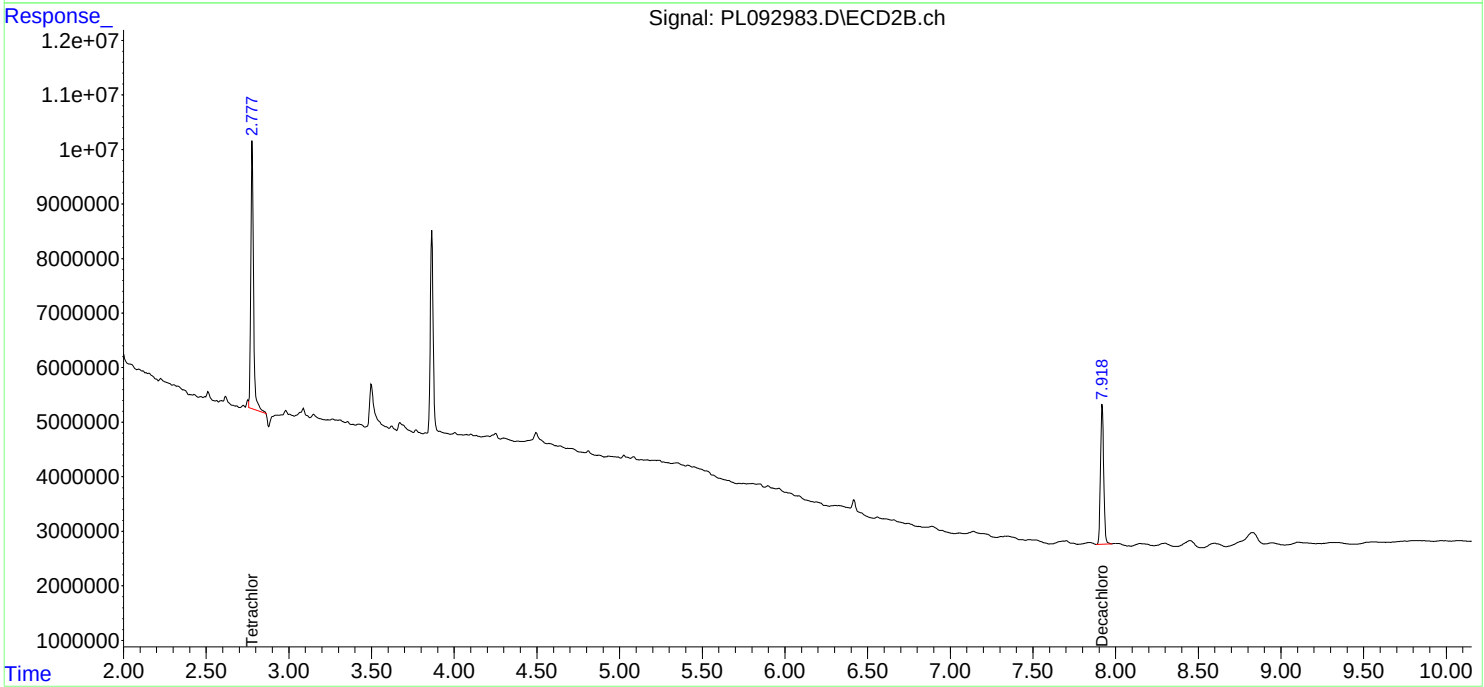
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092983.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 22:47
Operator : AR\AJ
Sample : P4718-03
Misc :
ALS Vial : 39 Sample Multiplier: 1

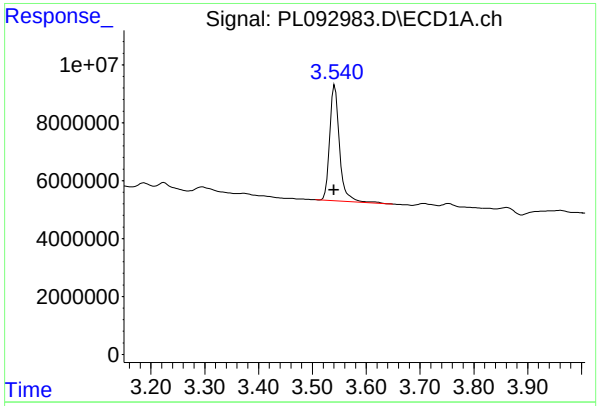
Instrument :
ECD_L
ClientSampleId :
WB-307-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 00:37:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



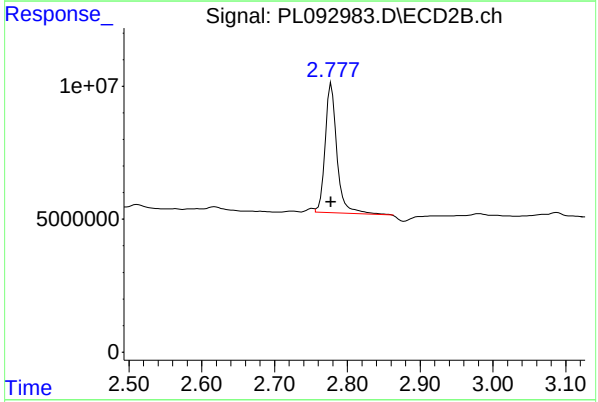




#1 Tetrachloro-m-xylene

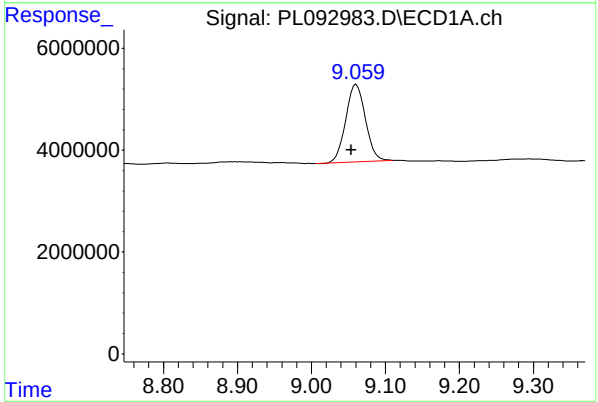
R.T.: 3.542 min
Delta R.T.: 0.002 min
Response: 50433730
Conc: 20.58 ng/ml

Instrument :
ECD_L
ClientSampleId :
WB-307-SB02



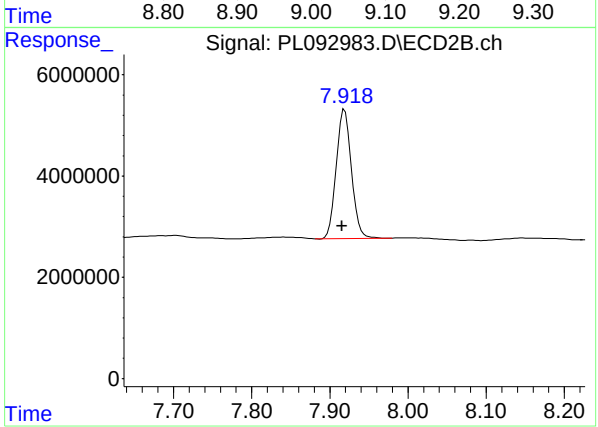
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 54798091
Conc: 20.14 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.007 min
Response: 28120365
Conc: 14.61 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.003 min
Response: 34581119
Conc: 12.67 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092946.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 12:40
Operator : AR\AJ
Sample : PB164694TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164694TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:48:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.542	2.779	50543817	54730479	20.628	20.113
28)	SA Decachlor...	9.062	7.919	40873416	56699558	21.238	20.775
	Target Compounds						

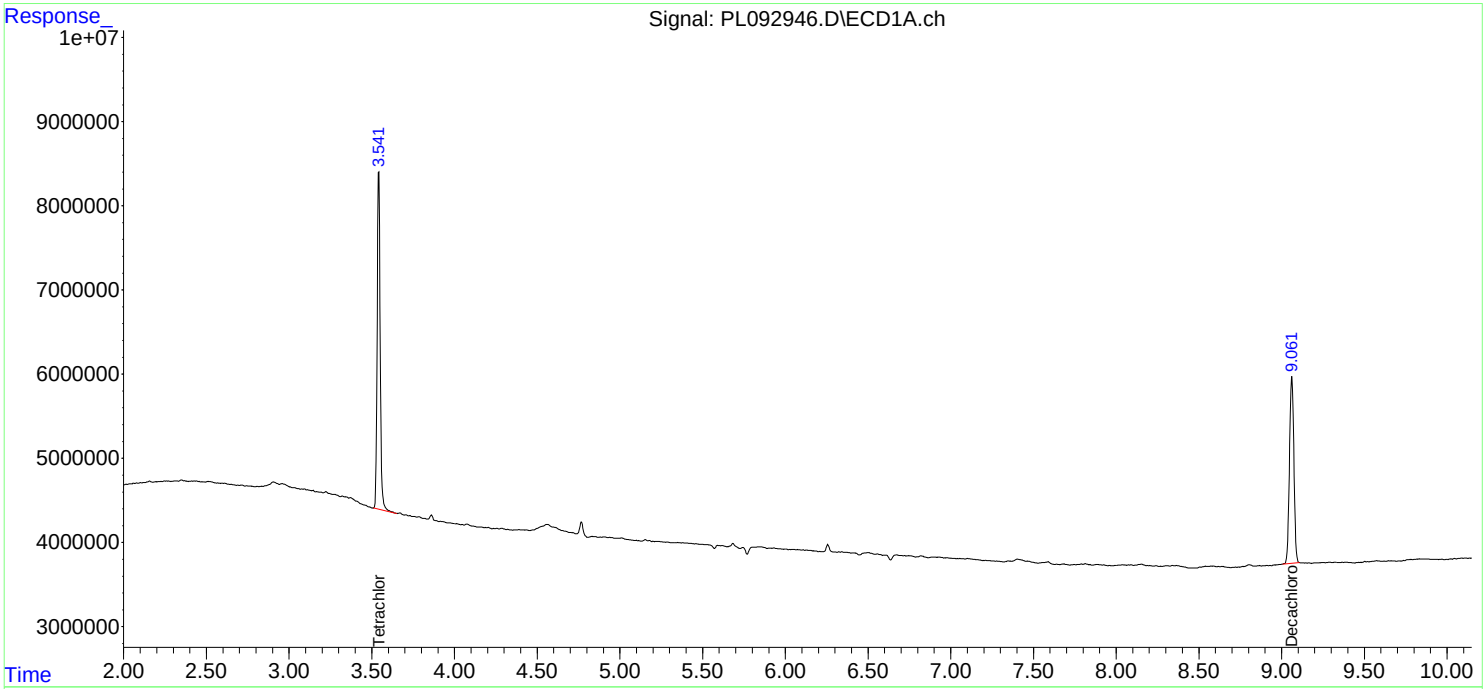
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

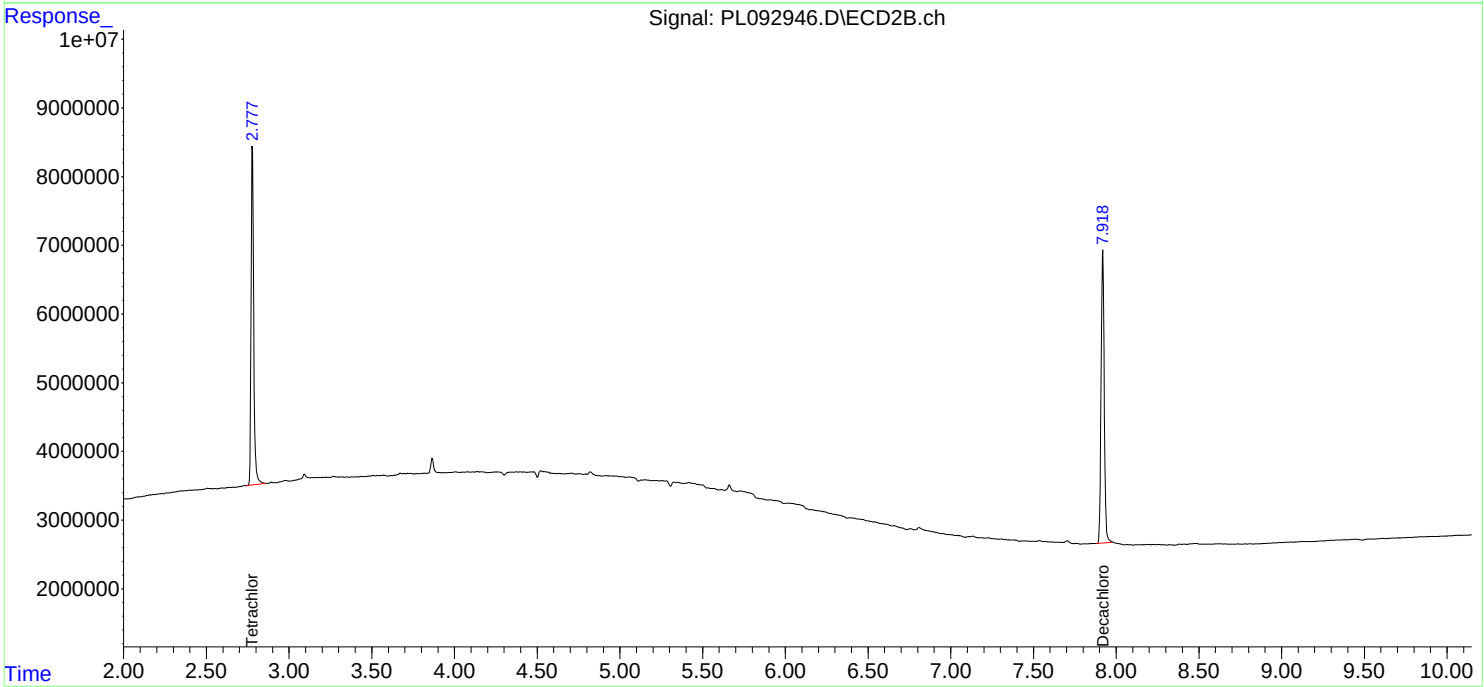
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092946.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 12:40
Operator : AR\AJ
Sample : PB164694TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

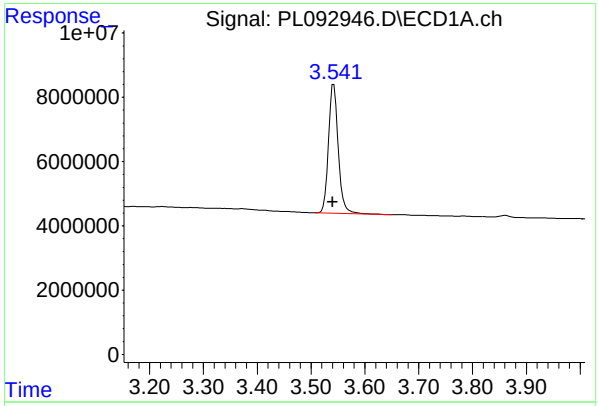
Instrument :
ECD_L
ClientSampleId :
PB164694TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:48:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



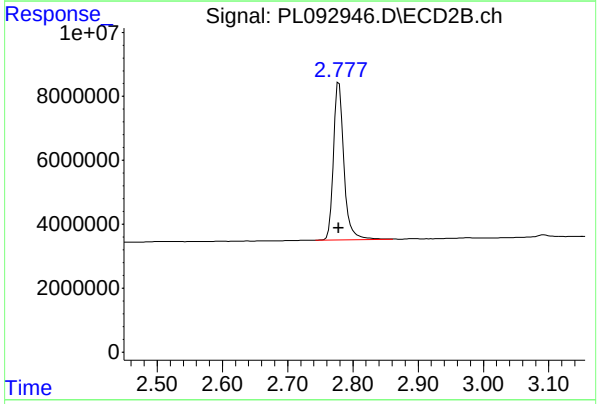




#1 Tetrachloro-m-xylene

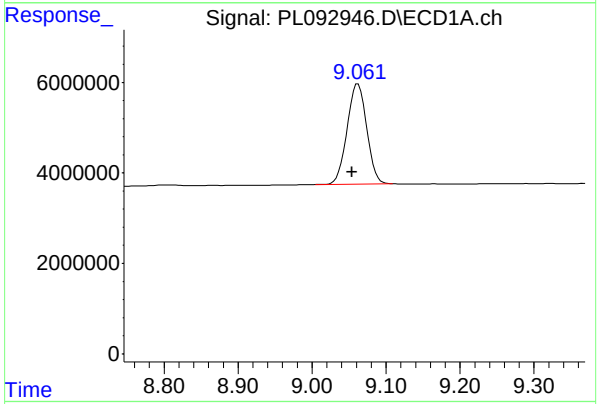
R.T.: 3.542 min
Delta R.T.: 0.002 min
Response: 50543817
Conc: 20.63 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB164694TB



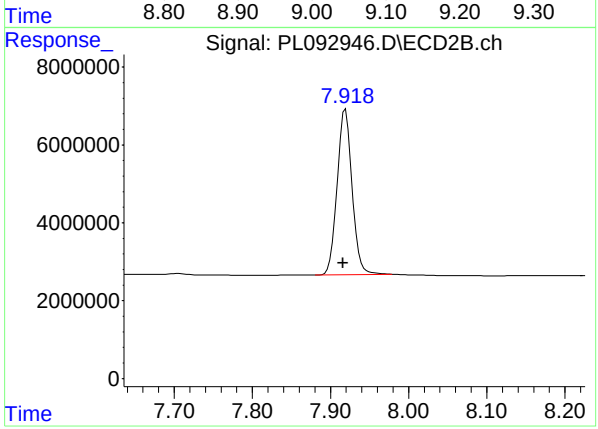
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 54730479
Conc: 20.11 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.062 min
Delta R.T.: 0.008 min
Response: 40873416
Conc: 21.24 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.003 min
Response: 56699558
Conc: 20.77 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092944.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 12:12
Operator : AR\AJ
Sample : PB164849BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164849BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:47:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.542	2.778	50726938	54774564	20.703	20.129
28)	SA Decachlor...	9.061	7.919	40520105	55953124	21.054	20.501
	Target Compounds						

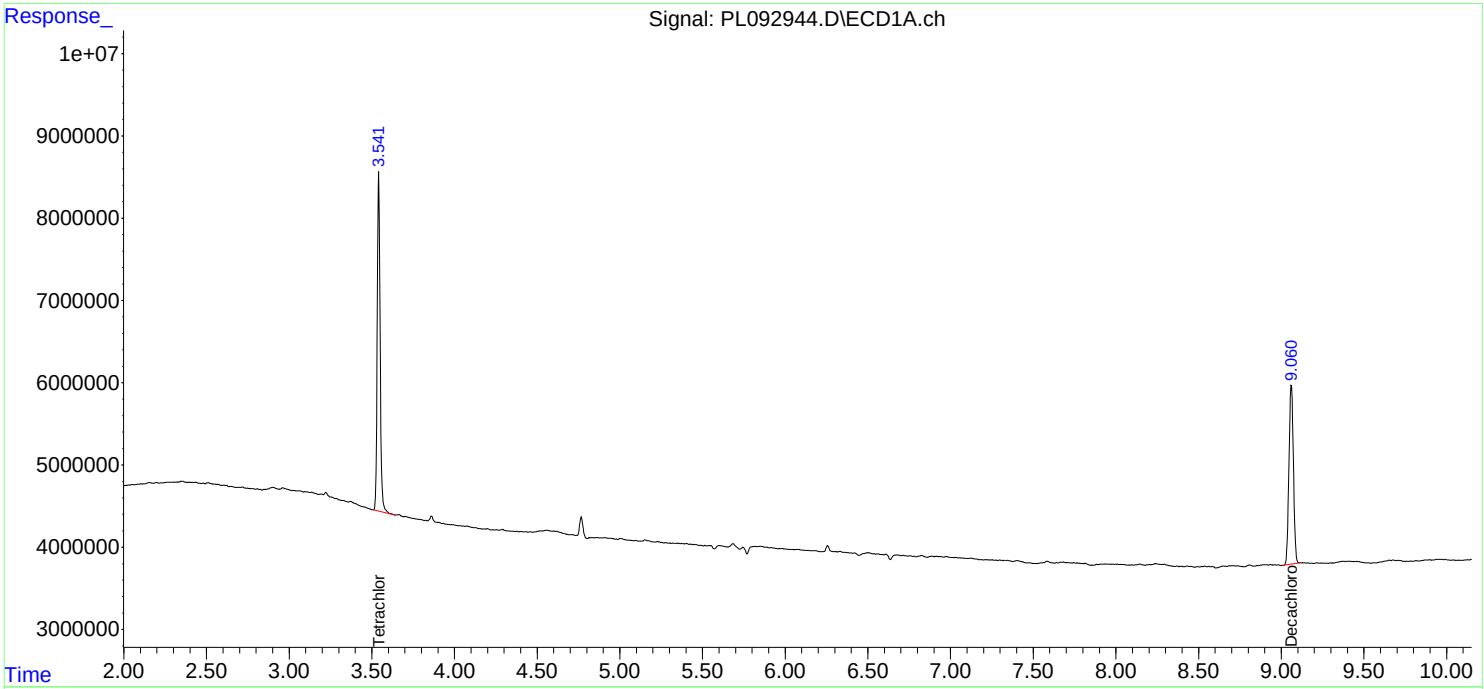
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

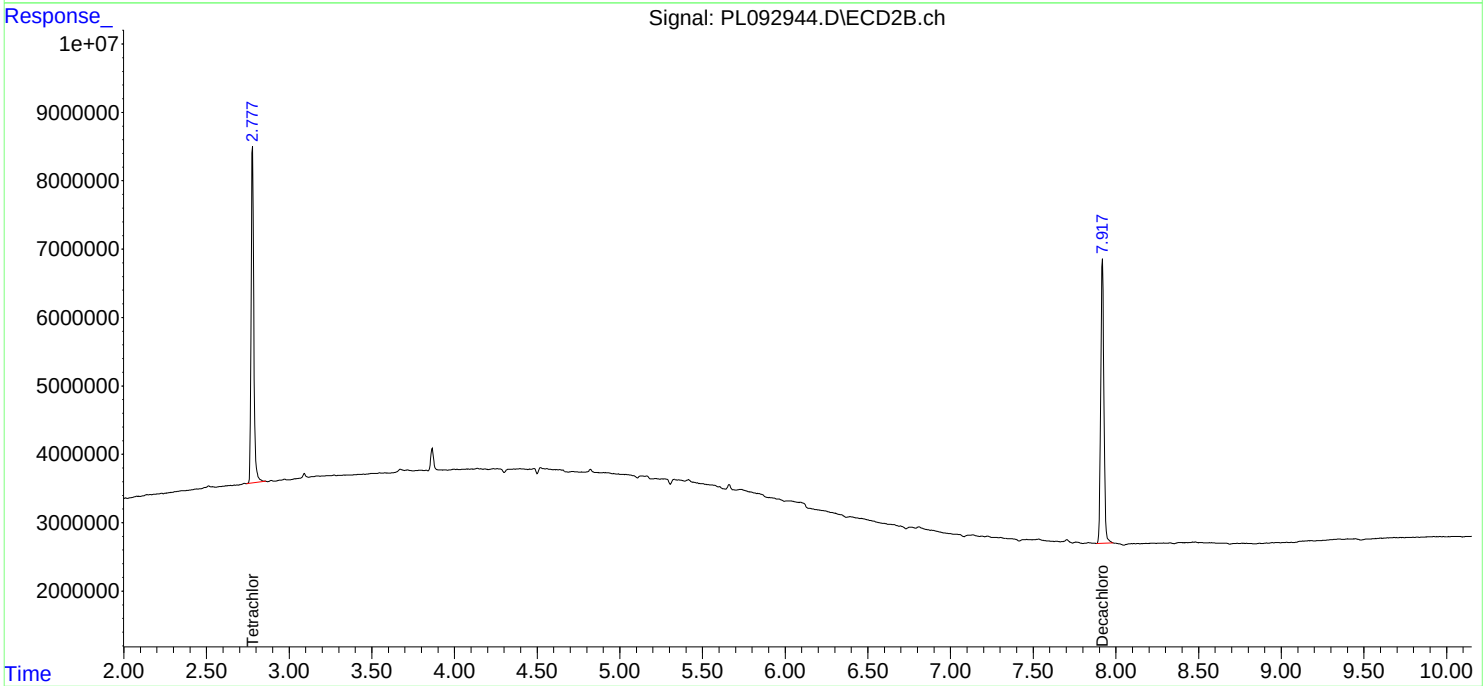
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092944.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 12:12
Operator : AR\AJ
Sample : PB164849BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164849BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:47:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

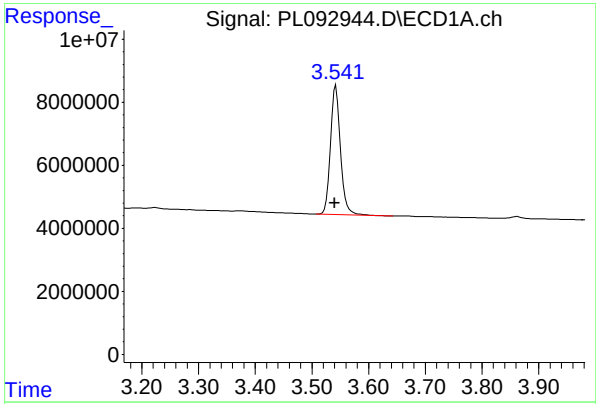
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





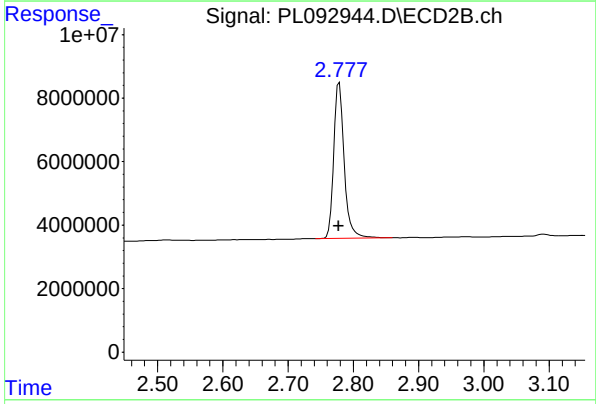
10

Instrument :
ECD_L
ClientSampleId :
PB164849BL



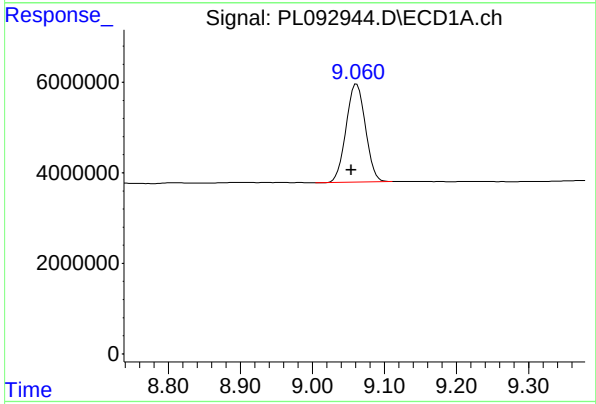
#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: 0.002 min
Response: 50726938
Conc: 20.70 ng/ml



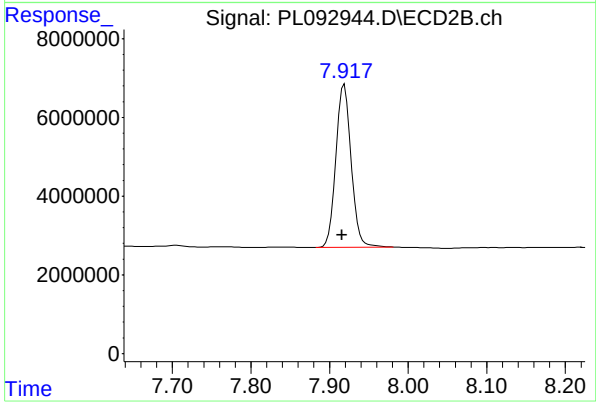
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 54774564
Conc: 20.13 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min
Delta R.T.: 0.007 min
Response: 40520105
Conc: 21.05 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.919 min
Delta R.T.: 0.003 min
Response: 55953124
Conc: 20.50 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092945.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 12:26
Operator : AR\AJ
Sample : PB164849BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164849BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:47:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.542	2.779	46784682	48717111	19.094	17.903
28)	SA	Decachlor...	9.061	7.919	37131410	51516098	19.294	18.876
		Target Compounds						
2)	A	alpha-BHC	3.998	3.282	165.0E6	204.8E6	48.649	51.335
3)	MA	gamma-BHC...	4.331	3.612	156.1E6	196.3E6	47.903	50.865
4)	MA	Heptachlor	4.920	3.951	147.1E6	199.4E6	48.999	52.837
5)	MB	Aldrin	5.262	4.230	141.7E6	189.4E6	47.217	51.742
6)	B	beta-BHC	4.529	3.911	71993709	86977955	49.807	52.834
7)	B	delta-BHC	4.776	4.140	137.6E6	174.6E6	43.977	45.430
8)	B	Heptachlo...	5.688	4.733	132.4E6	178.1E6	47.958	53.312
9)	A	Endosulfan I	6.074	5.103	122.4E6	165.1E6	48.913	54.084
10)	B	gamma-Chl...	5.944	4.984	132.5E6	185.1E6	49.818	55.076
11)	B	alpha-Chl...	6.023	5.047	131.0E6	182.2E6	49.478	54.768
12)	B	4,4'-DDE	6.196	5.236	118.2E6	178.1E6	49.871	55.276
13)	MA	Dieldrin	6.349	5.367	128.8E6	182.7E6	48.854	54.689
14)	MA	Endrin	6.579	5.643	100.0E6	153.2E6	43.930	52.939
15)	B	Endosulfa...	6.799	5.938	113.1E6	161.0E6	47.456	56.819
16)	A	4,4'-DDD	6.714	5.792	98938720	145.2E6	51.543	58.302
17)	MA	4,4'-DDT	7.028	6.042	100.6E6	142.9E6	48.627	53.294
18)	B	Endrin al...	6.929	6.118	90445453	123.6E6	48.161	53.587
19)	B	Endosulfa...	7.163	6.340	103.4E6	146.1E6	47.626	54.184
20)	A	Methoxychlor	7.505	6.617	52385600	71485421	45.952	50.059
21)	B	Endrin ke...	7.648	6.846	118.2E6	169.5E6	48.767	55.234
22)		Mirex	8.122	7.027	81987498	117.7E6	41.372	45.094

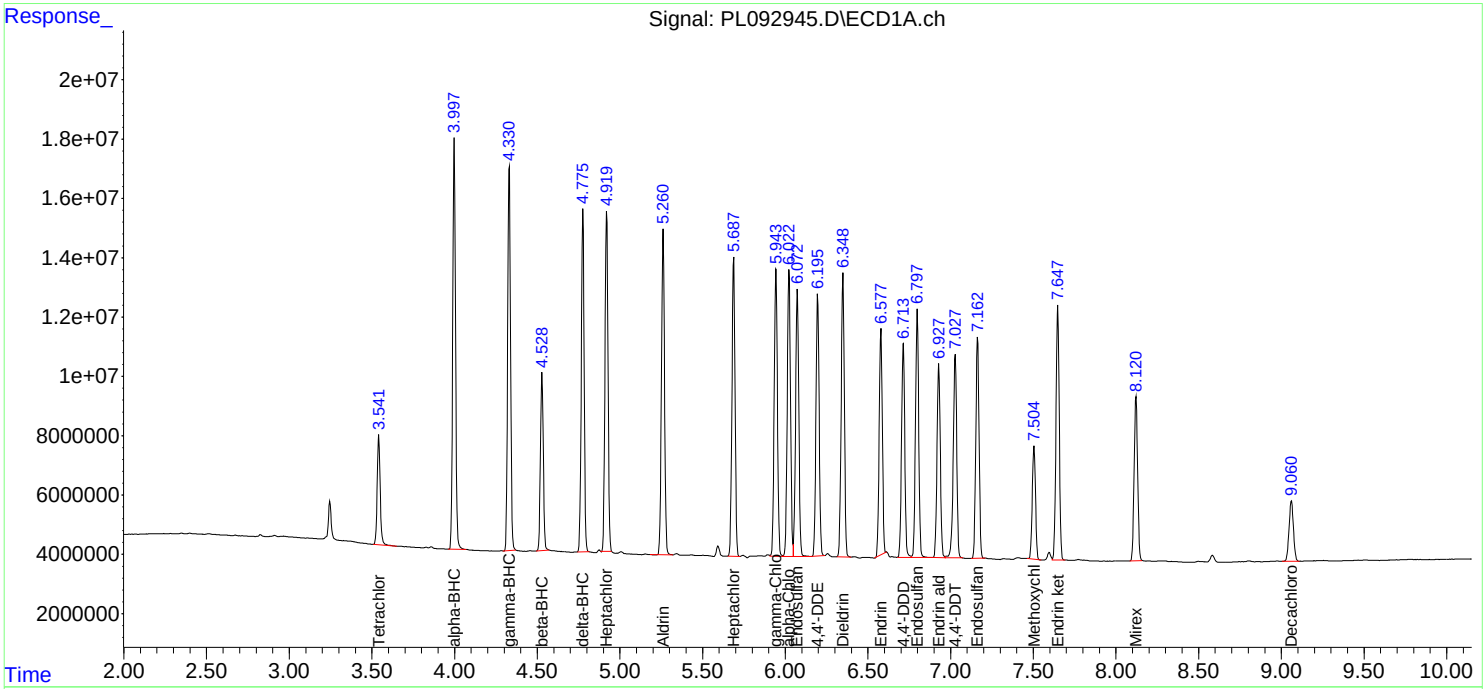
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

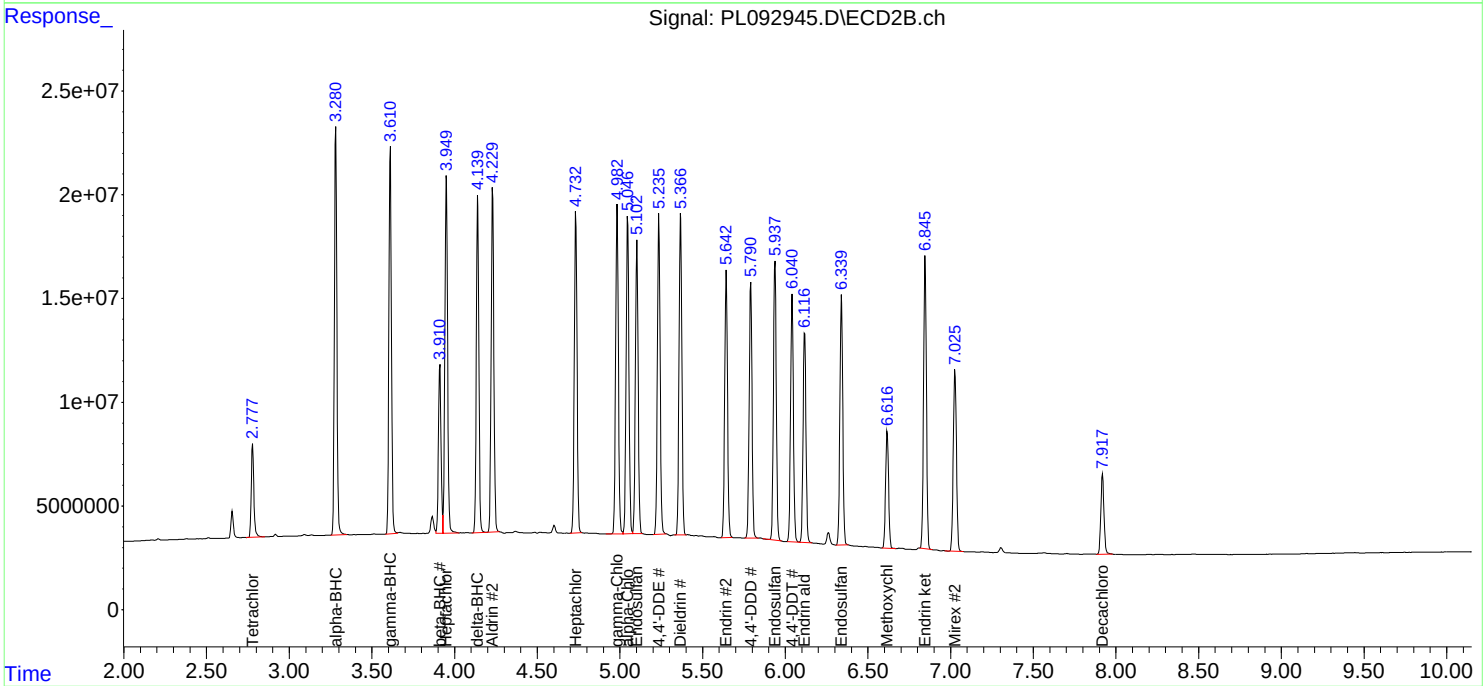
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092945.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 12:26
Operator : AR\AJ
Sample : PB164849BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164849BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:47:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 23:01
Operator : AR\AJ
Sample : P4718-03MS
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 00:38:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.541	2.778	60341989	52420795	24.627	19.264
28)	SA Decachlor...	9.061	7.919	27181880	35823783	14.124	13.126
	Target Compounds						
2)	A alpha-BHC	3.999	3.281	150.4E6	190.1E6	44.355	47.641
3)	MA gamma-BHC...	4.330	3.611	149.7E6	189.0E6	45.919m	48.961
4)	MA Heptachlor	4.920	3.950	150.3E6	204.2E6	50.050	54.106
5)	MB Aldrin	5.262	4.230	142.8E6	190.9E6	47.588	52.153
6)	B beta-BHC	4.529	3.911	73583080	90555823	50.906	55.007
7)	B delta-BHC	4.774	4.140	57772922	42056610	18.459	10.943 #
8)	B Heptachlo...	5.688	4.733	131.2E6	175.4E6	47.494	52.506
9)	A Endosulfan I	6.074	5.103	119.5E6	165.6E6	47.773	54.247
10)	B gamma-Chl...	5.944	4.983	130.4E6	185.4E6	49.024	55.148
11)	B alpha-Chl...	6.024	5.047	128.9E6	181.1E6	48.681	54.452
12)	B 4,4'-DDE	6.197	5.236	120.0E6	182.4E6	50.665	56.607
13)	MA Dieldrin	6.349	5.368	126.0E6	179.2E6	47.821	53.633
14)	MA Endrin	6.579	5.643	99816511	150.2E6	43.843	51.929
15)	B Endosulfa...	6.798	5.938	109.0E6	154.5E6	45.718	54.527
16)	A 4,4'-DDD	6.714	5.791	96626123	141.0E6	50.339	56.643
17)	MA 4,4'-DDT	7.028	6.042	96757553	132.7E6	46.748	49.463
18)	B Endrin al...	6.929	6.117	81159209	109.2E6	43.216	47.349
19)	B Endosulfa...	7.163	6.340	81644500	110.9E6	37.618	41.110
20)	A Methoxychlor	7.505	6.617	51002961	68150722	44.739	47.724
21)	B Endrin ke...	7.648	6.846	111.0E6	158.1E6	45.825	51.506
22)	Mirex	8.122	7.027	83867601	116.5E6	42.321	44.637

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

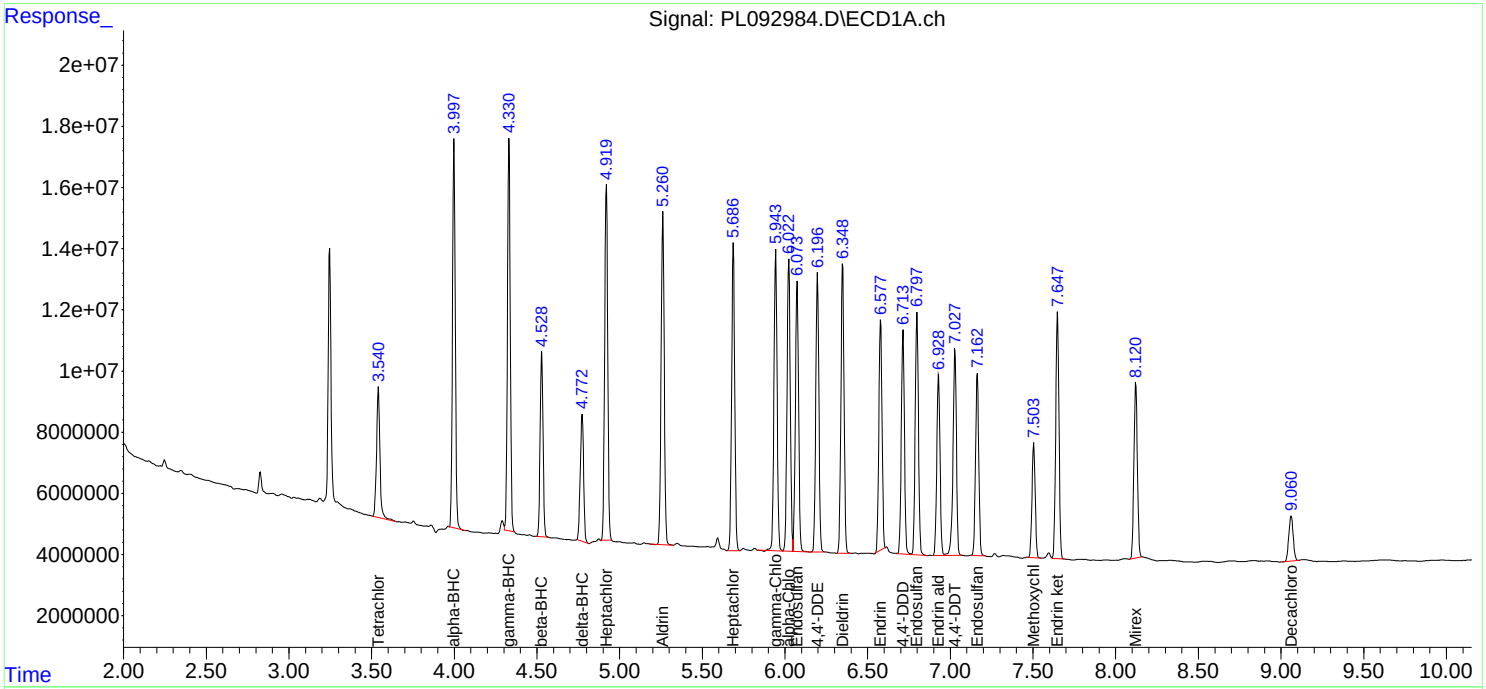
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092984.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 23:01
Operator : AR\AJ
Sample : P4718-03MS
Misc :
ALS Vial : 40 Sample Multiplier: 1

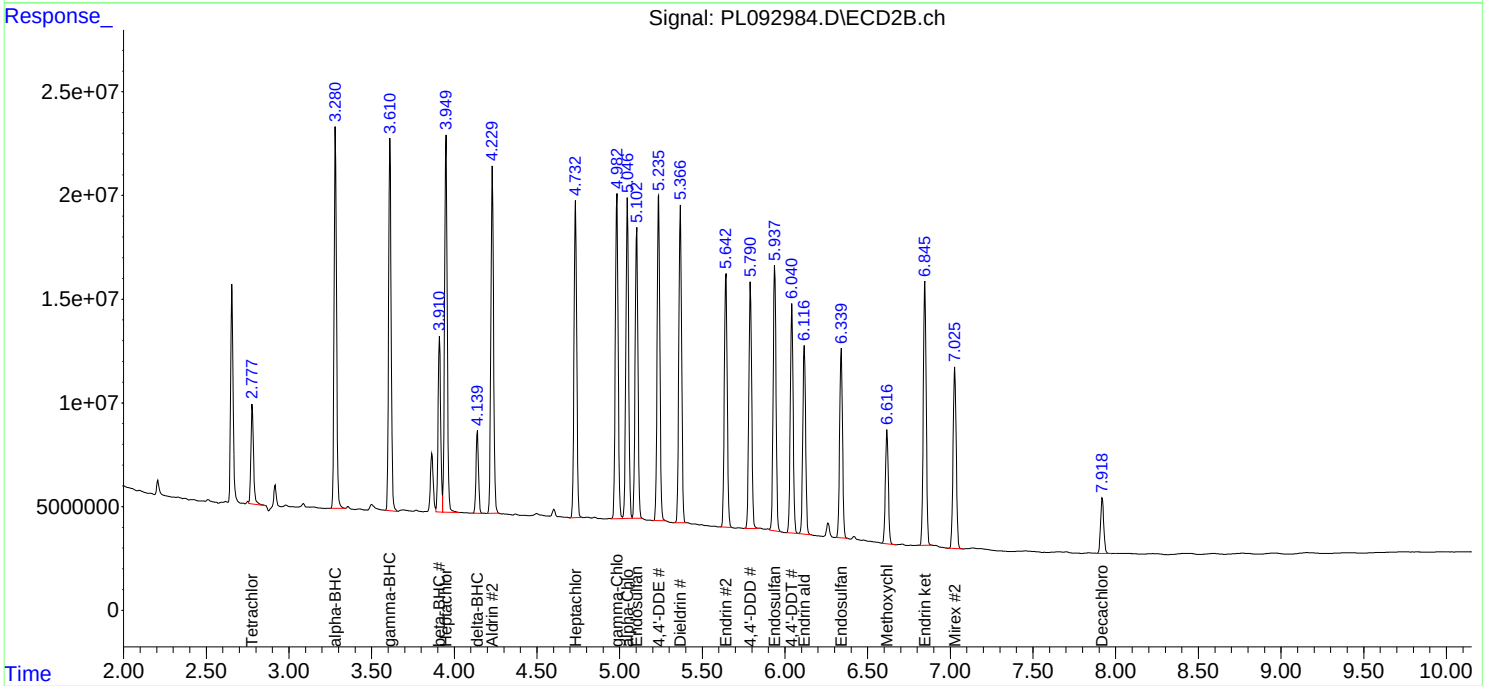
Instrument :
ECD_L
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 00:38:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092985.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 23:14
Operator : AR\AJ
Sample : P4718-03MSD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 00:39:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.542	2.779	60361310	52621776	24.635	19.338
28) SA	Decachlor...	9.062	7.919	27740748	36101437	14.414	13.228
	Target Compounds						
2) A	alpha-BHC	3.998	3.281	152.0E6	191.5E6	44.832	47.993
3) MA	gamma-BHC...	4.330	3.611	148.6E6	190.7E6	45.578m	49.407
4) MA	Heptachlor	4.920	3.950	150.3E6	206.7E6	50.042	54.763
5) MB	Aldrin	5.262	4.230	143.1E6	193.8E6	47.665	52.941
6) B	beta-BHC	4.529	3.911	73467707	91675632	50.826	55.688
7) B	delta-BHC	4.774	4.140	61680107	42879201	19.707	11.157 #
8) B	Heptachlo...	5.688	4.733	131.9E6	178.3E6	47.781	53.355
9) A	Endosulfan I	6.074	5.104	122.0E6	166.9E6	48.775	54.674
10) B	gamma-Chl...	5.944	4.983	135.2E6	188.1E6	50.821	55.958
11) B	alpha-Chl...	6.023	5.047	132.0E6	183.8E6	49.859	55.263
12) B	4,4'-DDE	6.197	5.236	120.2E6	184.1E6	50.728	57.158
13) MA	Dieldrin	6.349	5.368	128.3E6	183.6E6	48.681	54.956
14) MA	Endrin	6.578	5.643	101.6E6	155.0E6	44.637	53.570
15) B	Endosulfa...	6.798	5.938	111.4E6	154.8E6	46.742	54.651
16) A	4,4'-DDD	6.714	5.791	97012418	142.4E6	50.540	57.185
17) MA	4,4'-DDT	7.028	6.042	98554036	133.9E6	47.616	49.905
18) B	Endrin al...	6.928	6.117	83635456	112.5E6	44.535	48.769
19) B	Endosulfa...	7.163	6.340	82079944	114.5E6	37.819	42.451
20) A	Methoxychlor	7.504	6.617	51423006	68678723	45.108	48.093
21) B	Endrin ke...	7.648	6.846	112.7E6	163.3E6	46.532	53.223
22)	Mirex	8.122	7.027	85264905	120.5E6	43.026	46.204

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

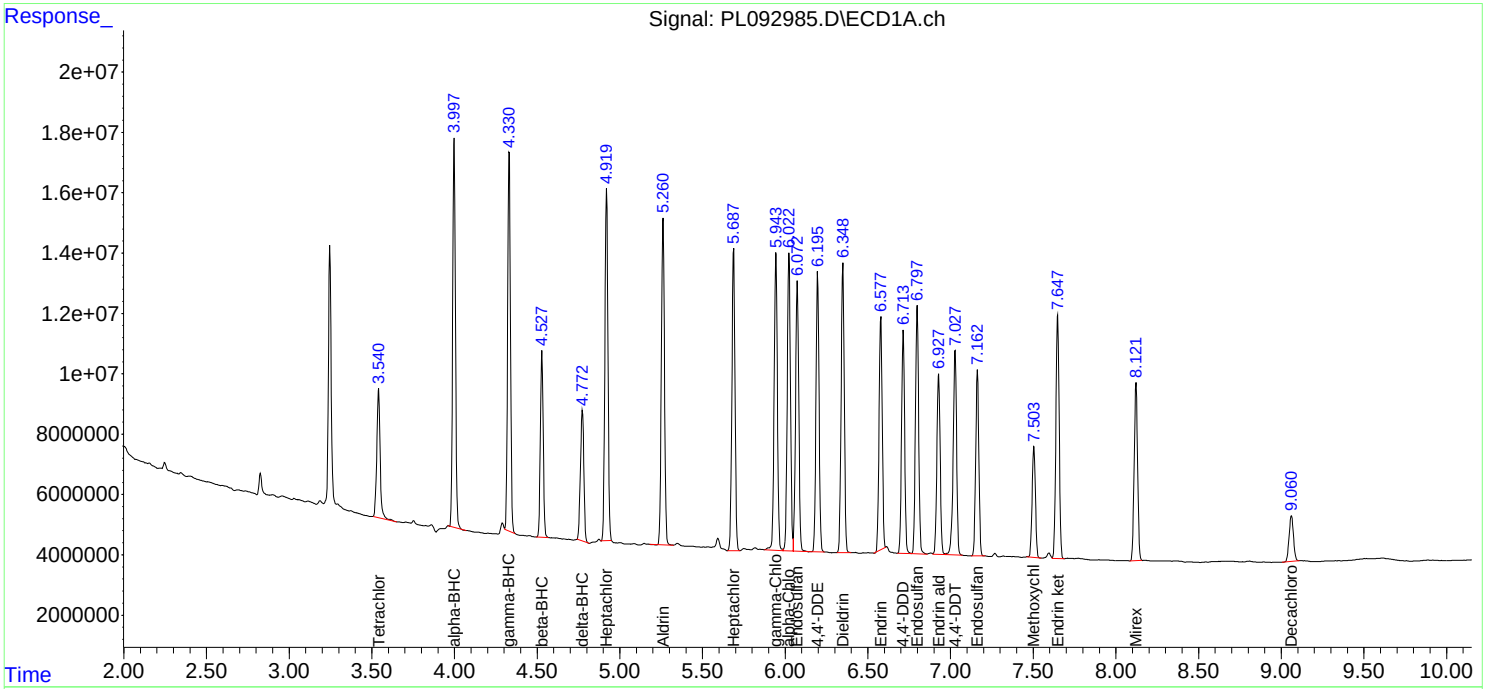
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL111124\
Data File : PL092985.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 23:14
Operator : AR\AJ
Sample : P4718-03MSD
Misc :
ALS Vial : 41 Sample Multiplier: 1

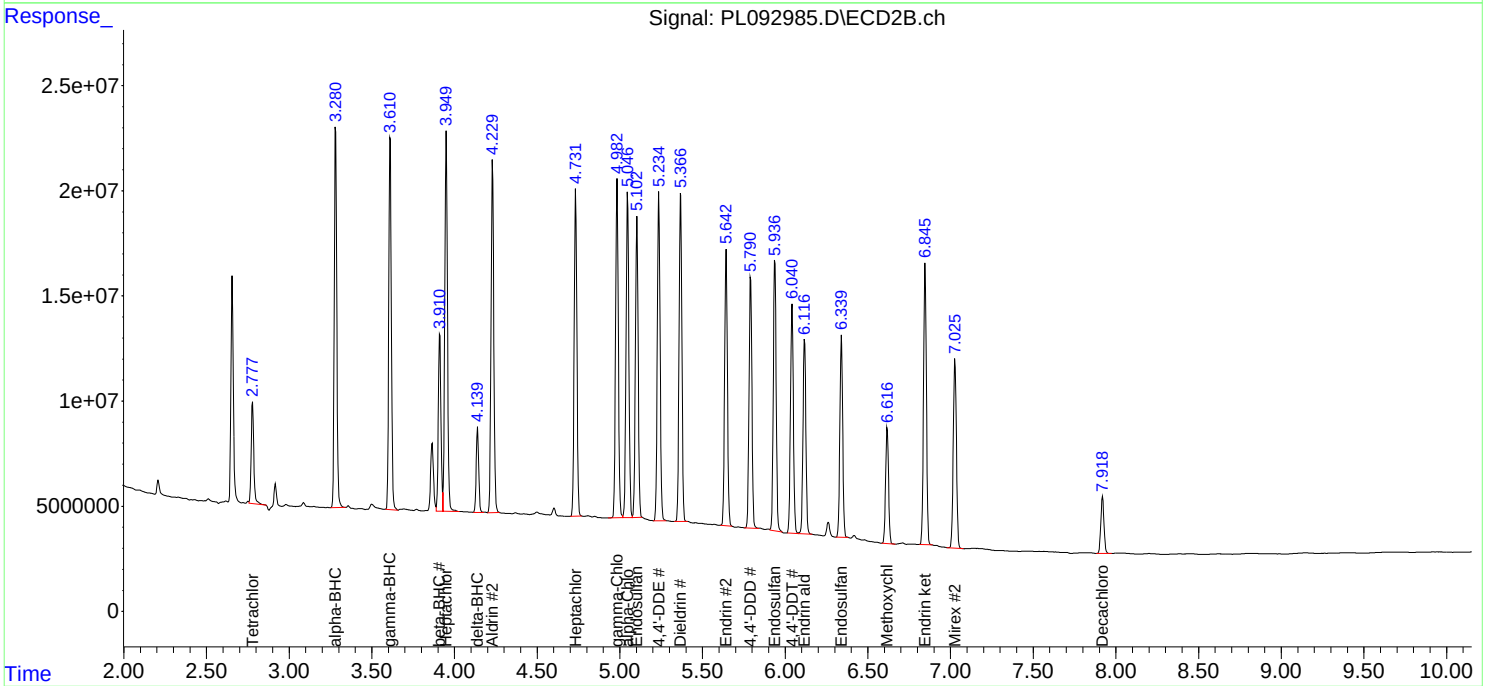
Instrument :
ECD_L
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 00:39:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





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

Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092653.D	4,4"-DDD	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PEM	PL092653.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PSTDICC005	PL092659.D	delta-BHC	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PSTDICC005	PL092659.D	Heptachlor epoxide	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	Endrin ketone #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PSTDCCC050	PL092675.D	Aldrin	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Dieldrin #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	gamma-BHC (Lindane)	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
I.BLK	PL092690.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:09:28 AM	Ankita	10/29/2024 10:02:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092691.D	Endosulfan II #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	gamma-Chlordane	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Heptachlor epoxide	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Mirex #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL111124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092942.D	4,4"-DDE	Abdul	11/12/2024 3:41:42 PM	Ankita	11/12/2024 4:01:16	Peak Integrated by Software
PEM	PL092942.D	4,4"-DDE #2	Abdul	11/12/2024 3:41:42 PM	Ankita	11/12/2024 4:01:16	Peak Integrated by Software
I.BLK	PL092959.D	Decachlorobiphenyl	Abdul	11/12/2024 3:43:06 PM	Ankita	11/12/2024 4:01:32	Peak Integrated by Software
PEM	PL092972.D	4,4"-DDE	Abdul	11/12/2024 3:42:37 PM	Ankita	11/12/2024 4:01:39	Peak Integrated by Software
PEM	PL092972.D	4,4"-DDE #2	Abdul	11/12/2024 3:42:37 PM	Ankita	11/12/2024 4:01:39	Peak Integrated by Software
P4718-03MS	PL092984.D	gamma-BHC (Lindane)	Abdul	11/12/2024 3:40:45 PM	Ankita	11/12/2024 4:01:51	Peak Integrated by Software
P4718-03MSD	PL092985.D	gamma-BHC (Lindane)	Abdul	11/12/2024 3:40:49 PM	Ankita	11/12/2024 4:01:53	Peak Integrated by Software
PSTDCCC050	PL092993.D	4,4"-DDT	Abdul	11/12/2024 3:40:57 PM	Ankita	11/12/2024 4:01:57	Peak Integrated by Software
PSTDCCC050	PL092993.D	Heptachlor epoxide	Abdul	11/12/2024 3:40:57 PM	Ankita	11/12/2024 4:01:57	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092651.D	28 Oct 2024 13:41	AR\AJ	Ok
2	I.BLK	PL092652.D	28 Oct 2024 13:55	AR\AJ	Ok
3	PEM	PL092653.D	28 Oct 2024 14:16	AR\AJ	Ok,M
4	RESCHK	PL092654.D	28 Oct 2024 14:29	AR\AJ	Ok
5	PSTDICC100	PL092655.D	28 Oct 2024 14:43	AR\AJ	Ok
6	PSTDICC075	PL092656.D	28 Oct 2024 14:56	AR\AJ	Ok
7	PSTDICC050	PL092657.D	28 Oct 2024 15:09	AR\AJ	Ok
8	PSTDICC025	PL092658.D	28 Oct 2024 15:23	AR\AJ	Ok
9	PSTDICC005	PL092659.D	28 Oct 2024 15:36	AR\AJ	Ok,M
10	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49	AR\AJ	Ok
11	PCHLORICC750	PL092661.D	28 Oct 2024 16:03	AR\AJ	Ok
12	PCHLORICC500	PL092662.D	28 Oct 2024 16:16	AR\AJ	Ok
13	PCHLORICC250	PL092663.D	28 Oct 2024 16:30	AR\AJ	Ok
14	PCHLORICC050	PL092664.D	28 Oct 2024 16:43	AR\AJ	Ok
15	PTOXICC1000	PL092665.D	28 Oct 2024 16:56	AR\AJ	Ok
16	PTOXICC750	PL092666.D	28 Oct 2024 17:10	AR\AJ	Ok
17	PTOXICC500	PL092667.D	28 Oct 2024 17:23	AR\AJ	Ok
18	PTOXICC250	PL092668.D	28 Oct 2024 17:37	AR\AJ	Ok
19	PTOXICC100	PL092669.D	28 Oct 2024 17:50	AR\AJ	Ok,M
20	PSTDICV050	PL092670.D	28 Oct 2024 18:03	AR\AJ	Ok
21	PCHLORICV500	PL092671.D	28 Oct 2024 18:30	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL092672.D	28 Oct 2024 18:57	AR\AJ	Ok
23	I.BLK	PL092673.D	28 Oct 2024 19:24	AR\AJ	Ok
24	PEM	PL092674.D	28 Oct 2024 19:37	AR\AJ	Ok,M
25	PSTDCCC050	PL092675.D	28 Oct 2024 19:51	AR\AJ	Ok,M
26	PB164460BL	PL092676.D	28 Oct 2024 20:04	AR\AJ	Ok,M
27	PB164460BS	PL092677.D	28 Oct 2024 20:17	AR\AJ	Ok,M
28	P4575-01	PL092678.D	28 Oct 2024 20:31	AR\AJ	Ok,M
29	P4566-01	PL092679.D	28 Oct 2024 20:44	AR\AJ	Ok,M
30	P4567-01	PL092680.D	28 Oct 2024 20:57	AR\AJ	Ok,M
31	P4567-05	PL092681.D	28 Oct 2024 21:11	AR\AJ	Ok
32	P4567-09	PL092682.D	28 Oct 2024 21:24	AR\AJ	Ok,M
33	P4574-01	PL092683.D	28 Oct 2024 21:38	AR\AJ	Ok,M
34	P4574-04	PL092684.D	28 Oct 2024 21:51	AR\AJ	Ok,M
35	P4577-01	PL092685.D	28 Oct 2024 22:04	AR\AJ	Ok,M
36	P4561-01	PL092686.D	28 Oct 2024 22:18	AR\AJ	Ok,M
37	P4561-01MS	PL092687.D	28 Oct 2024 22:31	AR\AJ	Ok,M
38	P4561-01MSD	PL092688.D	28 Oct 2024 22:44	AR\AJ	Ok,M
39	P4561-05	PL092689.D	28 Oct 2024 22:58	AR\AJ	Ok,M
40	I.BLK	PL092690.D	28 Oct 2024 23:11	AR\AJ	Ok,M
41	PSTDCCC050	PL092691.D	29 Oct 2024 00:32	AR\AJ	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL111124

Review By	Abdul	Review On	11/12/2024 3:43:42 PM		
Supervise By	Ankita	Supervise On	11/12/2024 4:02:24 PM		
SubDirectory	PL111124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092940.D	11 Nov 2024 09:21	AR\AJ	Ok
2	I.BLK	PL092941.D	11 Nov 2024 09:35	AR\AJ	Ok
3	PEM	PL092942.D	11 Nov 2024 09:49	AR\AJ	Ok,M
4	PSTDCCC050	PL092943.D	11 Nov 2024 11:58	AR\AJ	Ok
5	PB164849BL	PL092944.D	11 Nov 2024 12:12	AR\AJ	Ok
6	PB164849BS	PL092945.D	11 Nov 2024 12:26	AR\AJ	Ok
7	PB164694TB	PL092946.D	11 Nov 2024 12:40	AR\AJ	Ok
8	PB164793TB	PL092947.D	11 Nov 2024 12:54	AR\AJ	Ok
9	P4660-03MS	PL092948.D	11 Nov 2024 13:08	AR\AJ	Ok,M
10	P4660-03MSD	PL092949.D	11 Nov 2024 13:26	AR\AJ	Ok,M
11	P4738-02	PL092950.D	11 Nov 2024 13:40	AR\AJ	Ok
12	PB164859BL	PL092951.D	11 Nov 2024 13:53	AR\AJ	Ok
13	PB164859BS	PL092952.D	11 Nov 2024 14:07	AR\AJ	Ok
14	P4793-01	PL092953.D	11 Nov 2024 14:21	AR\AJ	Not Ok
15	P4795-01	PL092954.D	11 Nov 2024 14:35	AR\AJ	Ok,M
16	P4796-01	PL092955.D	11 Nov 2024 14:49	AR\AJ	Ok,M
17	P4796-03	PL092956.D	11 Nov 2024 15:03	AR\AJ	Ok,M
18	P4796-05	PL092957.D	11 Nov 2024 15:16	AR\AJ	Ok,M
19	P4796-07	PL092958.D	11 Nov 2024 15:30	AR\AJ	Ok,M
20	I.BLK	PL092959.D	11 Nov 2024 16:35	AR\AJ	Ok,M
21	PSTDCCC050	PL092960.D	11 Nov 2024 16:49	AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL111124

Review By	Abdul	Review On	11/12/2024 3:43:42 PM		
Supervise By	Ankita	Supervise On	11/12/2024 4:02:24 PM		
SubDirectory	PL111124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB164862BL	PL092961.D	11 Nov 2024 17:28	AR\AJ	Ok
23	PB164862BS	PL092962.D	11 Nov 2024 17:42	AR\AJ	Ok
24	PB164862BSD	PL092963.D	11 Nov 2024 17:55	AR\AJ	Ok
25	P4791-02	PL092964.D	11 Nov 2024 18:09	AR\AJ	Not Ok
26	P4792-04	PL092965.D	11 Nov 2024 18:23	AR\AJ	Not Ok
27	P4796-07MS	PL092966.D	11 Nov 2024 18:37	AR\AJ	Ok,M
28	P4796-07MSD	PL092967.D	11 Nov 2024 18:51	AR\AJ	Ok,M
29	PB164885BL	PL092968.D	11 Nov 2024 19:05	AR\AJ	Ok
30	PB164885BS	PL092969.D	11 Nov 2024 19:19	AR\AJ	Ok
31	PB164885TB	PL092970.D	11 Nov 2024 19:33	AR\AJ	Ok
32	I.BLK	PL092971.D	11 Nov 2024 19:46	AR\AJ	Ok
33	PEM	PL092972.D	11 Nov 2024 20:00	AR\AJ	Ok,M
34	PSTDCCC050	PL092973.D	11 Nov 2024 20:14	AR\AJ	Ok
35	P4722-05	PL092974.D	11 Nov 2024 20:42	AR\AJ	Ok
36	P4722-10	PL092975.D	11 Nov 2024 20:56	AR\AJ	Ok
37	P4722-15	PL092976.D	11 Nov 2024 21:10	AR\AJ	Ok
38	P4722-15MS	PL092977.D	11 Nov 2024 21:24	AR\AJ	Ok,M
39	P4722-15MSD	PL092978.D	11 Nov 2024 21:37	AR\AJ	Ok,M
40	P4788-01	PL092979.D	11 Nov 2024 21:51	AR\AJ	Ok,M
41	P4789-01	PL092980.D	11 Nov 2024 22:05	AR\AJ	Ok,M
42	P4792-03	PL092981.D	11 Nov 2024 22:19	AR\AJ	Ok,M
43	P4798-01	PL092982.D	11 Nov 2024 22:33	AR\AJ	Not Ok
44	P4718-03	PL092983.D	11 Nov 2024 22:47	AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL111124

Review By	Abdul	Review On	11/12/2024 3:43:42 PM		
Supervise By	Ankita	Supervise On	11/12/2024 4:02:24 PM		
SubDirectory	PL111124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P4718-03MS	PL092984.D	11 Nov 2024 23:01	AR\AJ	Ok,M
46	P4718-03MSD	PL092985.D	11 Nov 2024 23:14	AR\AJ	Ok,M
47	P4722-04	PL092986.D	11 Nov 2024 23:28	AR\AJ	Ok
48	P4722-09	PL092987.D	11 Nov 2024 23:42	AR\AJ	Ok
49	P4722-14	PL092988.D	11 Nov 2024 23:56	AR\AJ	Ok
50	P4732-02	PL092989.D	12 Nov 2024 00:10	AR\AJ	Ok
51	P4771-06	PL092990.D	12 Nov 2024 00:24	AR\AJ	Ok,M
52	P4771-08	PL092991.D	12 Nov 2024 00:38	AR\AJ	Ok
53	I.BLK	PL092992.D	12 Nov 2024 00:52	AR\AJ	Ok
54	PSTDCCC050	PL092993.D	12 Nov 2024 01:06	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092651.D	28 Oct 2024 13:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL092652.D	28 Oct 2024 13:55		AR\AJ	Ok
3	PEM	PEM	PL092653.D	28 Oct 2024 14:16		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL092654.D	28 Oct 2024 14:29		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL092655.D	28 Oct 2024 14:43		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL092656.D	28 Oct 2024 14:56		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL092657.D	28 Oct 2024 15:09		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL092658.D	28 Oct 2024 15:23		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL092659.D	28 Oct 2024 15:36		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL092661.D	28 Oct 2024 16:03		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL092662.D	28 Oct 2024 16:16		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL092663.D	28 Oct 2024 16:30		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL092664.D	28 Oct 2024 16:43		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL092665.D	28 Oct 2024 16:56		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL092666.D	28 Oct 2024 17:10		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL092667.D	28 Oct 2024 17:23		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL092668.D	28 Oct 2024 17:37		AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL092669.D	28 Oct 2024 17:50		AR\AJ	Ok,M
20	PSTDICV050	ICVPL102824	PL092670.D	28 Oct 2024 18:03		AR\AJ	Ok
21	PCHLORICV500	ICVPL102824CHLOR	PL092671.D	28 Oct 2024 18:30		AR\AJ	Ok
22	PTOXICV500	ICVPL102824TOX	PL092672.D	28 Oct 2024 18:57		AR\AJ	Ok
23	I.BLK	I.BLK	PL092673.D	28 Oct 2024 19:24		AR\AJ	Ok
24	PEM	PEM	PL092674.D	28 Oct 2024 19:37		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL092675.D	28 Oct 2024 19:51		AR\AJ	Ok,M
26	PB164460BL	PB164460BL	PL092676.D	28 Oct 2024 20:04		AR\AJ	Ok,M
27	PB164460BS	PB164460BS	PL092677.D	28 Oct 2024 20:17		AR\AJ	Ok,M
28	P4575-01	PL-02-102424	PL092678.D	28 Oct 2024 20:31		AR\AJ	Ok,M
29	P4566-01	HD-01-102524	PL092679.D	28 Oct 2024 20:44		AR\AJ	Ok,M
30	P4567-01	WC-1	PL092680.D	28 Oct 2024 20:57		AR\AJ	Ok,M
31	P4567-05	WC-2	PL092681.D	28 Oct 2024 21:11		AR\AJ	Ok
32	P4567-09	WC-3	PL092682.D	28 Oct 2024 21:24		AR\AJ	Ok,M
33	P4574-01	GRAVEL-1	PL092683.D	28 Oct 2024 21:38		AR\AJ	Ok,M
34	P4574-04	GRAVEL-2	PL092684.D	28 Oct 2024 21:51		AR\AJ	Ok,M
35	P4577-01	TR-05-102524	PL092685.D	28 Oct 2024 22:04		AR\AJ	Ok,M
36	P4561-01	BP-F-19	PL092686.D	28 Oct 2024 22:18		AR\AJ	Ok,M
37	P4561-01MS	BP-F-19MS	PL092687.D	28 Oct 2024 22:31		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4561-01MSD	BP-F-19MSD	PL092688.D	28 Oct 2024 22:44		AR\AJ	Ok,M
39	P4561-05	BP-F-18	PL092689.D	28 Oct 2024 22:58		AR\AJ	Ok,M
40	I.BLK	I.BLK	PL092690.D	28 Oct 2024 23:11		AR\AJ	Ok,M
41	PSTDCCC050	PSTDCCC050	PL092691.D	29 Oct 2024 00:32		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL111124

Review By	Abdul	Review On	11/12/2024 3:43:42 PM		
Supervise By	Ankita	Supervise On	11/12/2024 4:02:24 PM		
SubDirectory	PL111124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092940.D	11 Nov 2024 09:21		AR\AJ	Ok
2	I.BLK	I.BLK	PL092941.D	11 Nov 2024 09:35		AR\AJ	Ok
3	PEM	PEM	PL092942.D	11 Nov 2024 09:49		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL092943.D	11 Nov 2024 11:58		AR\AJ	Ok
5	PB164849BL	PB164849BL	PL092944.D	11 Nov 2024 12:12		AR\AJ	Ok
6	PB164849BS	PB164849BS	PL092945.D	11 Nov 2024 12:26		AR\AJ	Ok
7	PB164694TB	PB164694TB	PL092946.D	11 Nov 2024 12:40		AR\AJ	Ok
8	PB164793TB	PB164793TB	PL092947.D	11 Nov 2024 12:54		AR\AJ	Ok
9	P4660-03MS	WC-TA2-01-CMS	PL092948.D	11 Nov 2024 13:08		AR\AJ	Ok,M
10	P4660-03MSD	WC-TA2-01-CMSD	PL092949.D	11 Nov 2024 13:26		AR\AJ	Ok,M
11	P4738-02	72-12018	PL092950.D	11 Nov 2024 13:40		AR\AJ	Ok
12	PB164859BL	PB164859BL	PL092951.D	11 Nov 2024 13:53		AR\AJ	Ok
13	PB164859BS	PB164859BS	PL092952.D	11 Nov 2024 14:07		AR\AJ	Ok
14	P4793-01	M00-24-00345	PL092953.D	11 Nov 2024 14:21	F flag is coming in surrogate	AR\AJ	Not Ok
15	P4795-01	LAW-23-00189	PL092954.D	11 Nov 2024 14:35		AR\AJ	Ok,M
16	P4796-01	TP-1	PL092955.D	11 Nov 2024 14:49		AR\AJ	Ok,M
17	P4796-03	TP-2	PL092956.D	11 Nov 2024 15:03		AR\AJ	Ok,M
18	P4796-05	TP-3	PL092957.D	11 Nov 2024 15:16		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL111124

Review By	Abdul	Review On	11/12/2024 3:43:42 PM		
Supervise By	Ankita	Supervise On	11/12/2024 4:02:24 PM		
SubDirectory	PL111124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4796-07	TP-4	PL092958.D	11 Nov 2024 15:30		AR\AJ	Ok,M
20	I.BLK	I.BLK	PL092959.D	11 Nov 2024 16:35		AR\AJ	Ok,M
21	PSTDCCC050	PSTDCCC050	PL092960.D	11 Nov 2024 16:49		AR\AJ	Ok
22	PB164862BL	PB164862BL	PL092961.D	11 Nov 2024 17:28		AR\AJ	Ok
23	PB164862BS	PB164862BS	PL092962.D	11 Nov 2024 17:42		AR\AJ	Ok
24	PB164862BSD	PB164862BSD	PL092963.D	11 Nov 2024 17:55		AR\AJ	Ok
25	P4791-02	HINCHMAN-OILY-WAT	PL092964.D	11 Nov 2024 18:09	Surrogate Fail in both column	AR\AJ	Not Ok
26	P4792-04	MANHOLE-WASTE-DR	PL092965.D	11 Nov 2024 18:23	Surrogate Fail in both column	AR\AJ	Not Ok
27	P4796-07MS	TP-4MS	PL092966.D	11 Nov 2024 18:37		AR\AJ	Ok,M
28	P4796-07MSD	TP-4MSD	PL092967.D	11 Nov 2024 18:51	RPD Fail in some compound	AR\AJ	Ok,M
29	PB164885BL	PB164885BL	PL092968.D	11 Nov 2024 19:05		AR\AJ	Ok
30	PB164885BS	PB164885BS	PL092969.D	11 Nov 2024 19:19		AR\AJ	Ok
31	PB164885TB	PB164885TB	PL092970.D	11 Nov 2024 19:33		AR\AJ	Ok
32	I.BLK	I.BLK	PL092971.D	11 Nov 2024 19:46		AR\AJ	Ok
33	PEM	PEM	PL092972.D	11 Nov 2024 20:00		AR\AJ	Ok,M
34	PSTDCCC050	PSTDCCC050	PL092973.D	11 Nov 2024 20:14		AR\AJ	Ok
35	P4722-05	WC-1(0-6)	PL092974.D	11 Nov 2024 20:42		AR\AJ	Ok
36	P4722-10	WC-2(0-6)	PL092975.D	11 Nov 2024 20:56		AR\AJ	Ok
37	P4722-15	WC-3(0-6)	PL092976.D	11 Nov 2024 21:10		AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL111124

Review By	Abdul	Review On	11/12/2024 3:43:42 PM		
Supervise By	Ankita	Supervise On	11/12/2024 4:02:24 PM		
SubDirectory	PL111124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4722-15MS	WC-3(0-6)MS	PL092977.D	11 Nov 2024 21:24		AR\AJ	Ok,M
39	P4722-15MSD	WC-3(0-6)MSD	PL092978.D	11 Nov 2024 21:37		AR\AJ	Ok,M
40	P4788-01	BP-G3	PL092979.D	11 Nov 2024 21:51		AR\AJ	Ok,M
41	P4789-01	BP-F21	PL092980.D	11 Nov 2024 22:05		AR\AJ	Ok,M
42	P4792-03	OILY-STONE-DRUM	PL092981.D	11 Nov 2024 22:19		AR\AJ	Ok,M
43	P4798-01	MH-6	PL092982.D	11 Nov 2024 22:33	F flag is coming in surrogate, Already run	AR\AJ	Not Ok
44	P4718-03	WB-307-SB02	PL092983.D	11 Nov 2024 22:47		AR\AJ	Ok
45	P4718-03MS	WB-307-SB02MS	PL092984.D	11 Nov 2024 23:01		AR\AJ	Ok,M
46	P4718-03MSD	WB-307-SB02MSD	PL092985.D	11 Nov 2024 23:14		AR\AJ	Ok,M
47	P4722-04	WC-1(0-6)	PL092986.D	11 Nov 2024 23:28		AR\AJ	Ok
48	P4722-09	WC-2(0-6)	PL092987.D	11 Nov 2024 23:42		AR\AJ	Ok
49	P4722-14	WC-3(0-6)	PL092988.D	11 Nov 2024 23:56		AR\AJ	Ok
50	P4732-02	PPE-COMP	PL092989.D	12 Nov 2024 00:10		AR\AJ	Ok
51	P4771-06	P-1	PL092990.D	12 Nov 2024 00:24		AR\AJ	Ok,M
52	P4771-08	P-2	PL092991.D	12 Nov 2024 00:38		AR\AJ	Ok
53	I.BLK	I.BLK	PL092992.D	12 Nov 2024 00:52		AR\AJ	Ok
54	PSTDCCC050	PSTDCCC050	PL092993.D	12 Nov 2024 01:06		AR\AJ	Ok,M

M : Manual Integration

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TCLP EXTRACTION LOGPAGE

PB164694

SOP ID :	M1311-TCLP-15		
SDG No :	N/A	**Start Prep Date :** 11/06/2024	**Time :** 16:45
Weigh By :	JP	**End Prep Date :** 11/07/2024	**Time :** 09:35
Balance ID :	WC SC-4	**Combination Ratio :**	20
pH Meter ID :	WC PH METER-1	**ZHE Cleaning Batch :**	N/A
Extraction By :	JP	**Initial Room Temperature:**	24 °C
Filter By :	JP	**Final Room Temperature:**	23 °C
Pippete ID :	WC	**TCLP Technician Signature :**	JP
Tumbler ID :	T-1 / T-2	**Supervisor By :**	SJ
TCLP Filter ID :	114771		

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	JP / Cold Room	JP / Metals
	Preparation Group	Analysis Group / ICP

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TCLP EXTRACTION LOGPAGE

PB164694

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-04	WC-1(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-09	WC-2(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-14	WC-3(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4732-02	PPE-COMP	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164694TB	LEB694	N/A	N/A	N/A	N/A	N/A	N/A

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TCLP Fluid Determination

PB164694

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4718-03	WB-307-SB02	5.02	96.5	8.4	3.0	#1	4.94
P4719-03	BAYAVE-STOCKPILE	5.01	96.5	8.4	3.0	#1	4.94
P4720-05	JC-701-COMP-01	5.02	96.5	6.0	2.0	#1	4.94
P4722-04	WC-1(0-6)	5.03	96.5	9.4	4.0	#1	4.94
P4722-09	WC-2(0-6)	5.02	96.5	9.0	3.5	#1	4.94
P4722-14	WC-3(0-6)	5.01	96.5	8.6	3.5	#1	4.94
P4732-02	PPE-COMP	5.00	96.5	8.4	3.0	#1	4.94
P4738-02	72-12018	5.02	96.5	7.0	2.5	#1	4.94
P4739-04	TP-14	5.03	96.5	7.2	2.5	#1	4.94
P4739-08	BP-G2	5.04	96.5	8.0	3.0	#1	4.94
P4739-12	BP-B2	5.02	96.5	7.6	2.5	#1	4.94
P4739-16	TP-11	5.01	96.5	10.0	4.0	#1	4.94
PB164694TB	LEB694	N/A	N/A	N/A	N/A	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4719 **WorkList ID :** 185149 **Department :** TCLP Extraction **Date :** 11-06-2024 07:55:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-03	WB-307-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L21	11/04/2024	1311
P4719-03	BAYAVE-STOCKPILE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K21	11/05/2024	1311
P4720-05	JC-701-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K31	11/05/2024	1311
P4722-04	WC-1(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4722-09	WC-2(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4722-14	WC-3(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4732-02	PPE-COMP	Solid	TCLP Extraction	Cool 4 deg C	FURI01	L11	11/06/2024	1311
P4738-02	72-12018	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L23	11/06/2024	1311
P4739-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-08	BP-G2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-12	BP-B2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-16	TP-11	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311

Date/Time 11/06/24 16:10

Raw Sample Received by:

Raw Sample Relinquished by: SM

Date/Time 11/06/24 18:00

Raw Sample Received by: SM

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164849

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: N/A

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 11/10/2024

Extraction Start Time : 08:44

Extraction End Date : 11/10/2024

Extraction End Time : 13:40

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23928
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
Methylene Chloride	N/A	E3828
Baked Na2SO4	N/A	EP2556
Hexane	N/A	E3826
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/11/24	RP (Ext Lab)	R Pest/PCB Lab
9:15	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164849

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/10/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164694TB	PB164694TB	TCLP Pesticide	100	6	RUPESH	rajesh	10			SEP-01
PB164793TB	PB164793TB	TCLP Pesticide	100	6	RUPESH	rajesh	10			2
PB164849BL	PBLK849	TCLP Pesticide	1000	6	RUPESH	rajesh	10			3
PB164849BS	PLCS849	TCLP Pesticide	1000	6	RUPESH	rajesh	10			4
P4718-03	WB-307-SB02	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		5
P4718-03MS	WB-307-SB02MS	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		6
P4718-03MSD	WB-307-SB02MSD	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		7
P4722-04	WC-1(0-6)	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		8
P4722-09	WC-2(0-6)	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		9
P4722-14	WC-3(0-6)	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		10
P4732-02	PPE-COMP	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		11
P4738-02	72-12018	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		12
P4771-06	P-1	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		13
P4771-08	P-2	TCLP Pesticide	100	6	RUPESH	rajesh	10	A		14

* **Extracts relinguished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164793

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Pos
P4756-04	BP-B4	01	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-1
P4771-06	P-1	02	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4771-08	P-2	03	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4788-04	BP-G3	04	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4789-04	BP-F21	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4792-01	DIESLE-DRUM	06	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4792-06	OILY-STONE-DRUM	07	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4793-02	M00-24-00345	08	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
P4795-02	LAW-23-00189	09	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4798-04	MH-6	10	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
PB164793TB	LEB793	11	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1

11/09/2024

11:30

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB164792

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4722-05	WC-1(0-6)	11	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
P4722-10	WC-2(0-6)	12	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-2
P4722-15	WC-3(0-6)	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
PB164792TB	LEB792	14	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-2

11/04/2024

11:30

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/08/24	11/08/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/08/24	11/08/24	
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP Herbicide	8151A		11/10/24	11/12/24	
			TCLP Pesticide	8081B		11/10/24	11/11/24	
P4718-04	**WB-307-SW**	**WATER**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/09/24	11/11/24	

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Hit Summary Sheet
SW-846

SDG No.: P4718 **Order ID:** P4718

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
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028456.D	1	11/10/24 09:45	11/12/24 15:38	PB164850

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	386		70 (39) - 130 (175)	77%	SPK: 500

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:	11/10/24
Client Sample ID:	PB164694TB	SDG No.:	P4718
Lab Sample ID:	PB164694TB	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028454.D	1	11/10/24 09:45	11/12/24 14:49	PB164850

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	4.90	U	4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	4.50	U	4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	351		70 (39) - 130 (175)	70%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PS028355.D	PIBLK-PS028355.D	2,4-DCAA	1	500	501	100		70 (39)	130 (175)
		2,4-DCAA	2	500	503	101		70 (39)	130 (175)
I.BLK-PS028450.D	PIBLK-PS028450.D	2,4-DCAA	1	500	503	101		70 (39)	130 (175)
		2,4-DCAA	2	500	446	89		70 (39)	130 (175)
PB164850BL	PB164850BL	2,4-DCAA	1	500	484	97		70 (39)	130 (175)
		2,4-DCAA	2	500	408	82		70 (39)	130 (175)
PB164850BS	PB164850BS	2,4-DCAA	1	500	534	107		70 (39)	130 (175)
		2,4-DCAA	2	500	468	94		70 (39)	130 (175)
PB164694TB	PB164694TB	2,4-DCAA	1	500	351	70		70 (39)	130 (175)
		2,4-DCAA	2	500	283	57	*	70 (39)	130 (175)
P4718-03	WB-307-SB02	2,4-DCAA	1	500	386	77		70 (39)	130 (175)
		2,4-DCAA	2	500	314	63	*	70 (39)	130 (175)
P4718-03MS	WB-307-SB02MS	2,4-DCAA	1	500	363	73		70 (39)	130 (175)
		2,4-DCAA	2	500	282	56	*	70 (39)	130 (175)
P4718-03MSD	WB-307-SB02MSD	2,4-DCAA	1	500	366	73		70 (39)	130 (175)
		2,4-DCAA	2	500	282	56	*	70 (39)	130 (175)
I.BLK-PS028462.D	PIBLK-PS028462.D	2,4-DCAA	1	500	497	99		70 (39)	130 (175)
		2,4-DCAA	2	500	444	89		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028457.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WB-307-SB02MS**											
P4718-03MS	2,4-D	50	0	47.6	ug/L	95				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	56.9	ug/L	114				70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS028458.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:	**WB-307-SB02MSD**											
P4718-03MSD	2,4-D	50	0	47.8	ug/L	96		1		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	58.6	ug/L	117		3		70 (62)	130 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4718

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS028453.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164850BS	2,4-D	5	5.00	ug/L	100				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.20	ug/L	104				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164850BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Lab Sample ID: PB164850BL Lab File ID: PS028452.D

Matrix: (soil/water) water Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 11/10/2024

Date Analyzed (1): 11/12/2024 Date Analyzed (2): 11/12/2024

Time Analyzed (1): 13:53 Time Analyzed (2): 13:53

Instrument ID (1): ECD_S Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm) GC Column (2): RTX-CLP2 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
PB164850BS	PB164850BS	PS028453.D	11/12/2024	11/12/2024
PB164694TB	PB164694TB	PS028454.D	11/12/2024	11/12/2024
WB-307-SB02	P4718-03	PS028456.D	11/12/2024	11/12/2024
WB-307-SB02MS	P4718-03MS	PS028457.D	11/12/2024	11/12/2024
WB-307-SB02MSD	P4718-03MSD	PS028458.D	11/12/2024	11/12/2024

COMMENTS:

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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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:	PB164850BL	SDG No.:	P4718
Lab Sample ID:	PB164850BL	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028452.D	1	11/10/24 09:45	11/12/24 13:53	PB164850

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	484		70 (39) - 130 (175)	97%	SPK: 500

Comments:

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() = Laboratory InHouse Limit

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/08/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/08/24
Client Sample ID:	PIBLK-PS028355.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PS028355.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028355.D	1		11/08/24	PS110924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	503		70 (39) - 130 (175)	101%	SPK: 500

Comments:

U = Not Detected
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() = Laboratory InHouse Limit

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:	11/12/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/12/24
Client Sample ID:	PIBLK-PS028450.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PS028450.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028450.D	1		11/12/24	PS111224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	503		70 (39) - 130 (175)	101%	SPK: 500

Comments:

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LOQ = Limit of Quantitation
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/12/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/12/24
Client Sample ID:	PIBLK-PS028462.D	SDG No.:	P4718
Lab Sample ID:	I.BLK-PS028462.D	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028462.D	1		11/12/24	PS111224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	497		70 (39) - 130 (175)	99%	SPK: 500

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:	PB164850BS	SDG No.:	P4718
Lab Sample ID:	PB164850BS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028453.D	1	11/10/24 09:45	11/12/24 14:17	PB164850

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.00		0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.20		0.45	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	534		70 (39) - 130 (175)	107%	SPK: 500

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MS	SDG No.:	P4718
Lab Sample ID:	P4718-03MS	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028457.D	1	11/10/24 09:45	11/12/24 16:03	PB164850

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	47.6		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	56.9		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	363		70 (39) - 130 (175)	73%	SPK: 500

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02MSD	SDG No.:	P4718
Lab Sample ID:	P4718-03MSD	Matrix:	TCLP
Analytical Method:	SW8151A	% Solid:	0 Decanted:
Sample Wt/Vol:	100 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	TCLP Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS028458.D	1	11/10/24 09:45	11/12/24 16:27	PB164850

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	47.8		4.90	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	58.6		4.50	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	366		70 (39) - 130 (175)	73%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.26	9.26	9.26	9.26	9.26	9.26	9.16	9.36
2,4-D	8.38	8.38	8.38	8.38	8.38	8.38	8.28	8.48
2,4-DCAA	7.25	7.25	7.25	7.25	7.25	7.25	7.15	7.35

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS028356.D RT 500 = PS028357.D

RT 750 = PS028358.D RT 1000 = PS028359.D RT 1500 = PS028360.D

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW FROM	RT WINDOW TO
2,4,5-TP(Silvex)	9.91	9.91	9.91	9.91	9.91	9.91	9.81	10.01
2,4-D	9.01	9.00	9.01	9.01	9.01	9.00	8.90	9.10
2,4-DCAA	7.76	7.75	7.76	7.76	7.76	7.75	7.65	7.85

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028356.D **CF 500 =** PS028357.D

CF 750 = PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	21008200000	18982300000	19068100000	18267500000	17318700000	18929000000	7
2,4-D	3997770000	3571450000	3468690000	3334460000	3198650000	3514210000	9
2,4-DCAA	3196830000	2740430000	2735520000	2619650000	2511350000	2760750000	9

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024

Calibration Times: 15:13 16:58

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS028356.D **CF 500 =** PS028357.D

CF 750 = PS028358.D **CF 1000 =** PS028359.D **CF 1500 =** PS028360.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	10970300000	10612300000	10768700000	10478800000	10130800000	10592200000	3
2,4-D	2051780000	1901200000	1935300000	1900220000	1880580000	1933820000	4
2,4-DCAA	1694540000	1575990000	1595150000	1561040000	1540400000	1593420000	4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 13:25 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.24	7.25	7.15	7.35	0.01
2,4-D	8.37	8.38	8.28	8.48	0.01
2,4,5-TP(Silvex)	9.25	9.26	9.16	9.36	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 13:25 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.75	7.76	7.66	7.86	0.01
2,4-D	9.00	9.01	8.91	9.11	0.02
2,4,5-TP(Silvex)	9.90	9.91	9.81	10.01	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/12/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028451.D **Time Analyzed:** 13:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.254	9.160	9.360	735.550	712.500	3.2
2,4-D	8.374	8.279	8.479	712.300	705.000	1.0
2,4-DCAA	7.244	7.150	7.350	740.980	750.000	-1.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/12/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028451.D **Time Analyzed:** 13:25

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.902	9.811	10.011	664.220	712.500	-6.8
2,4-D	8.995	8.905	9.105	639.620	705.000	-9.3
2,4-DCAA	7.747	7.655	7.855	681.430	750.000	-9.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 18:29 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.24	7.25	7.15	7.35	0.01
2,4-D	8.37	8.38	8.28	8.48	0.01
2,4,5-TP(Silvex)	9.25	9.26	9.16	9.36	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Continuing Calib Date: 11/12/2024 **Initial Calibration Date(s):** 11/08/2024 11/08/2024

Continuing Calib Time: 18:29 **Initial Calibration Time(s):** 15:13 16:58

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.75	7.76	7.66	7.86	0.01
2,4-D	8.99	9.01	8.91	9.11	0.02
2,4,5-TP(Silvex)	9.90	9.91	9.81	10.01	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/12/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028463.D **Time Analyzed:** 18:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.253	9.160	9.360	730.330	712.500	2.5
2,4-D	8.372	8.279	8.479	706.140	705.000	0.2
2,4-DCAA	7.243	7.150	7.350	746.010	750.000	-0.5

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/08/2024 11/08/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/12/2024

Lab Sample No.: HSTDCCC750 **Data File :** PS028463.D **Time Analyzed:** 18:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.901	9.811	10.011	663.190	712.500	-6.9
2,4-D	8.994	8.905	9.105	643.750	705.000	-8.7
2,4-DCAA	7.746	7.655	7.855	675.910	750.000	-9.9

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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	DCAA RT #	RT #
I.BLK	I.BLK	11/08/2024	14:25	PS028355.D	7.25	0.00
HSTDICC200	HSTDICC200	11/08/2024	15:13	PS028356.D	7.25	0.00
HSTDICC500	HSTDICC500	11/08/2024	15:46	PS028357.D	7.25	0.00
HSTDICC750	HSTDICC750	11/08/2024	16:10	PS028358.D	7.25	0.00
HSTDICC1000	HSTDICC1000	11/08/2024	16:34	PS028359.D	7.25	0.00
HSTDICC1500	HSTDICC1500	11/08/2024	16:58	PS028360.D	7.25	0.00
I.BLK	I.BLK	11/12/2024	13:00	PS028450.D	7.24	0.00
HSTDCCC750	HSTDCCC750	11/12/2024	13:25	PS028451.D	7.24	0.00
PB164850BL	PB164850BL	11/12/2024	13:53	PS028452.D	7.25	0.00
PB164850BS	PB164850BS	11/12/2024	14:17	PS028453.D	7.24	0.00
PB164694TB	PB164694TB	11/12/2024	14:49	PS028454.D	7.25	0.00
WB-307-SB02	P4718-03	11/12/2024	15:38	PS028456.D	7.24	0.00
WB-307-SB02MS	P4718-03MS	11/12/2024	16:03	PS028457.D	7.24	0.00
WB-307-SB02MSD	P4718-03MSD	11/12/2024	16:27	PS028458.D	7.24	0.00
I.BLK	I.BLK	11/12/2024	18:04	PS028462.D	7.24	0.00
HSTDCCC750	HSTDCCC750	11/12/2024	18:29	PS028463.D	7.24	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Project: Amtrak Sawtooth Bridges 2024 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/08/2024 11/08/2024

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	DCAA RT #	RT #
I.BLK	I.BLK	11/08/2024	14:25	PS028355.D	7.76	0.00
HSTDICC200	HSTDICC200	11/08/2024	15:13	PS028356.D	7.76	0.00
HSTDICC500	HSTDICC500	11/08/2024	15:46	PS028357.D	7.75	0.00
HSTDICC750	HSTDICC750	11/08/2024	16:10	PS028358.D	7.76	0.00
HSTDICC1000	HSTDICC1000	11/08/2024	16:34	PS028359.D	7.76	0.00
HSTDICC1500	HSTDICC1500	11/08/2024	16:58	PS028360.D	7.76	0.00
I.BLK	I.BLK	11/12/2024	13:00	PS028450.D	7.75	0.00
HSTDCCC750	HSTDCCC750	11/12/2024	13:25	PS028451.D	7.75	0.00
PB164850BL	PB164850BL	11/12/2024	13:53	PS028452.D	7.75	0.00
PB164850BS	PB164850BS	11/12/2024	14:17	PS028453.D	7.75	0.00
PB164694TB	PB164694TB	11/12/2024	14:49	PS028454.D	7.75	0.00
WB-307-SB02	P4718-03	11/12/2024	15:38	PS028456.D	7.75	0.00
WB-307-SB02MS	P4718-03MS	11/12/2024	16:03	PS028457.D	7.75	0.00
WB-307-SB02MSD	P4718-03MSD	11/12/2024	16:27	PS028458.D	7.75	0.00
I.BLK	I.BLK	11/12/2024	18:04	PS028462.D	7.75	0.00
HSTDCCC750	HSTDCCC750	11/12/2024	18:29	PS028463.D	7.75	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164850BS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Lab Sample ID: PB164850BS **Date(s) Analyzed:** 11/12/2024 11/12/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.37	8.32	8.42	5.00	12.8
	2	9.00	8.95	9.05	4.40	
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	5.20	12.2
	2	9.90	9.85	9.95	4.60	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-307-SB02MS

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Lab Sample ID: P4718-03MS **Date(s) Analyzed:** 11/12/2024 11/12/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	46.0	21.2
	2	9.90	9.85	9.95	56.9	
2,4-D	1	8.37	8.32	8.42	47.6	14.4
	2	8.99	8.94	9.04	41.2	

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

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WB-307-SB02MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** P4718 **SAS No.:** P4718 **SDG NO.:** P4718

Lab Sample ID: P4718-03MSD **Date(s) Analyzed:** 11/12/2024 11/12/2024

Instrument ID (1): ECD_S **Instrument ID (2):** ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm) **GC Column:(2):** RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
2,4-D	1	8.37	8.32	8.42	47.8	11.3
	2	8.99	8.94	9.04	42.7	
2,4,5-TP(Silvex)	1	9.25	9.20	9.30	46.2	23.7
	2	9.91	9.86	9.96	58.6	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028456.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 15:38
Operator : AR\AJ
Sample : P4718-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-307-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:52:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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						
4) S	2,4-DCAA	7.244	7.746	1066.4E6	499.6E6	386.260	313.540
	Target Compounds						

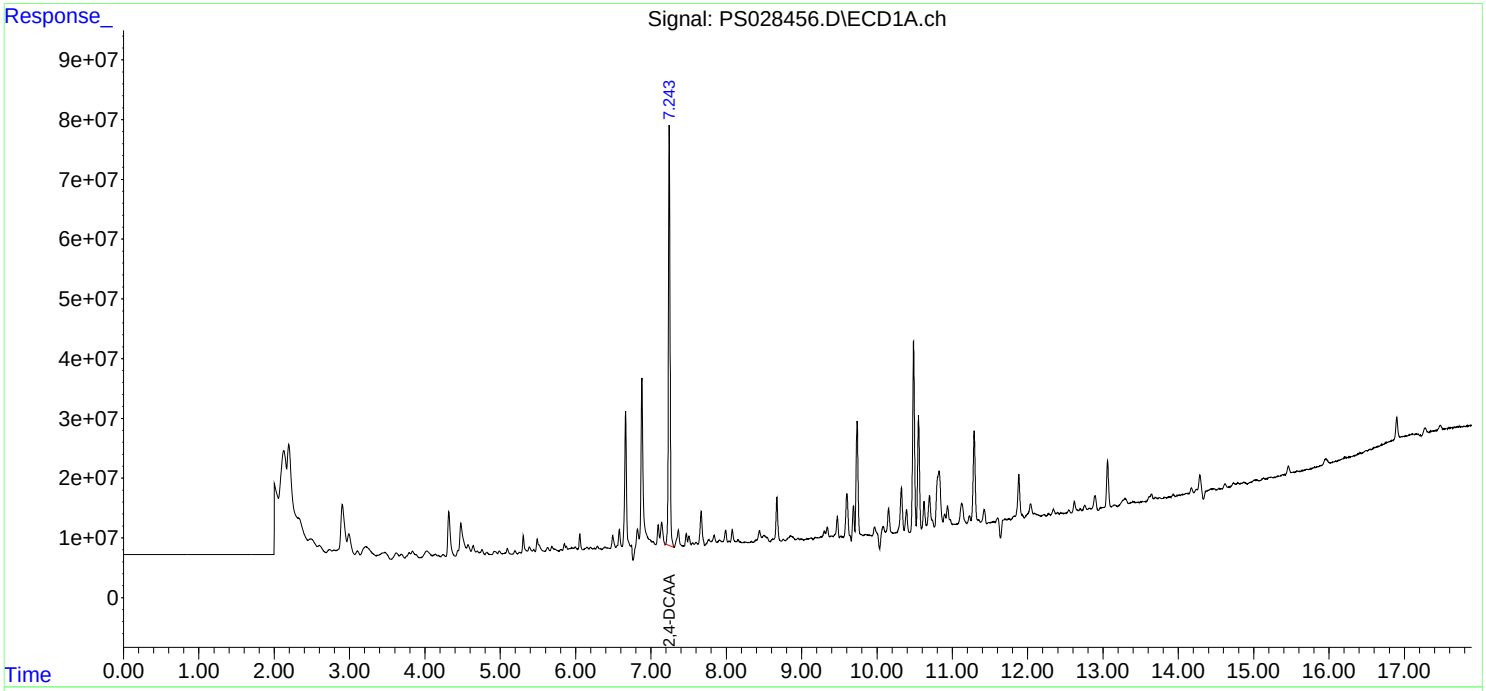
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

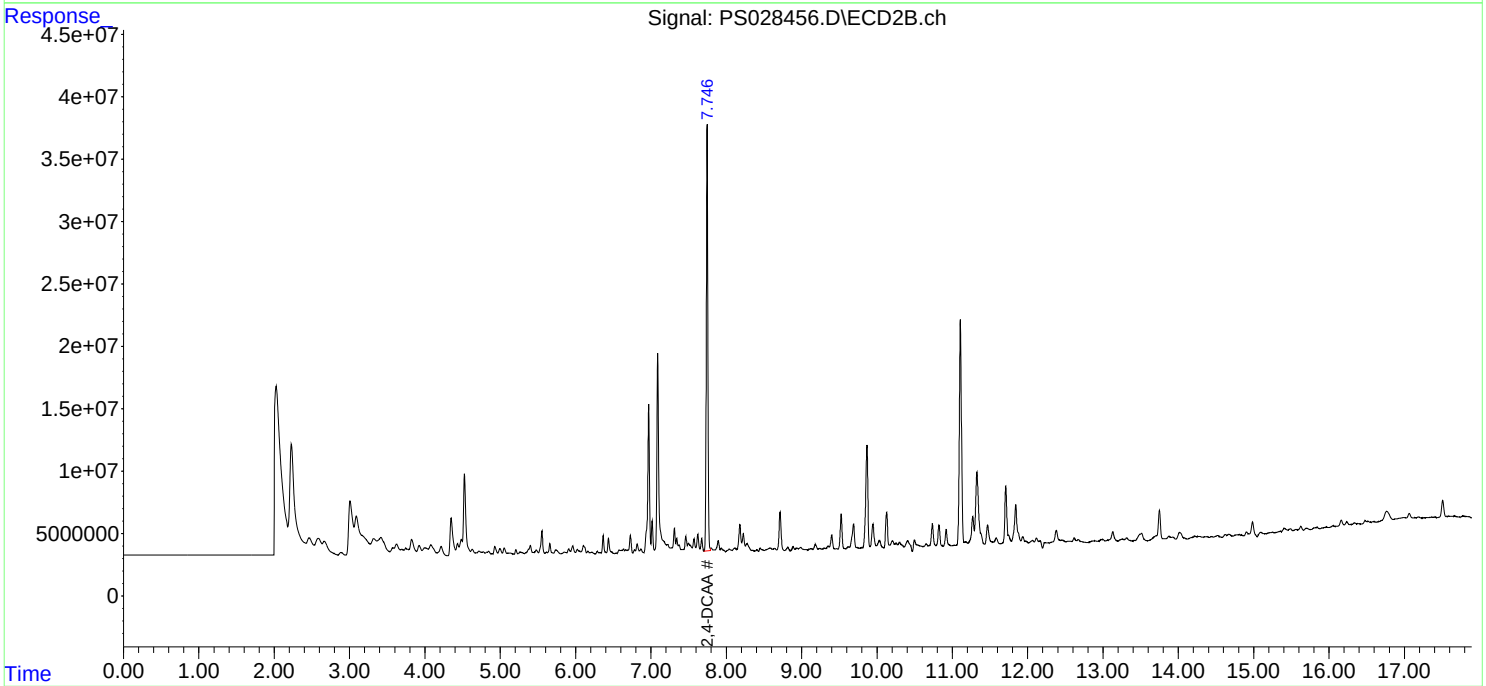
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028456.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 15:38
Operator : AR\AJ
Sample : P4718-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

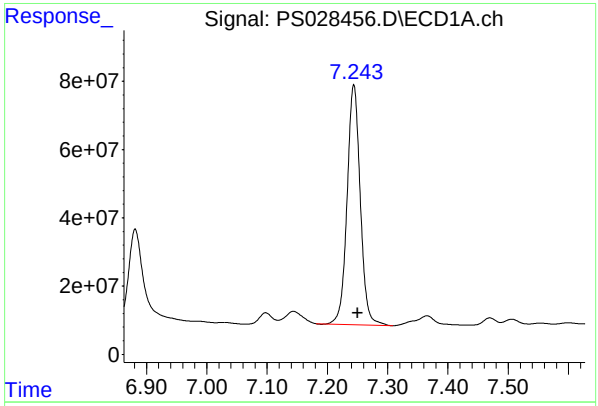
Instrument :
ECD_S
ClientSampleId :
WB-307-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:52:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



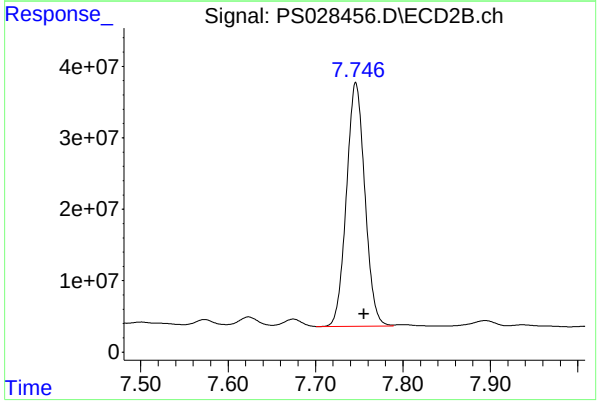




#4 2,4-DCAA

R.T.: 7.244 min
Delta R.T.: -0.006 min
Response: 1066368198
Conc: 386.26 ng/ml

Instrument :
ECD_S
ClientSampleId :
WB-307-SB02



#4 2,4-DCAA

R.T.: 7.746 min
Delta R.T.: -0.009 min
Response: 499601746
Conc: 313.54 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028454.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 14:49
Operator : AR\AJ
Sample : PB164694TB
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164694TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:50:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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						
4) S	2,4-DCAA	7.247	7.746	969.4E6	451.4E6	351.121	283.276
	Target Compounds						

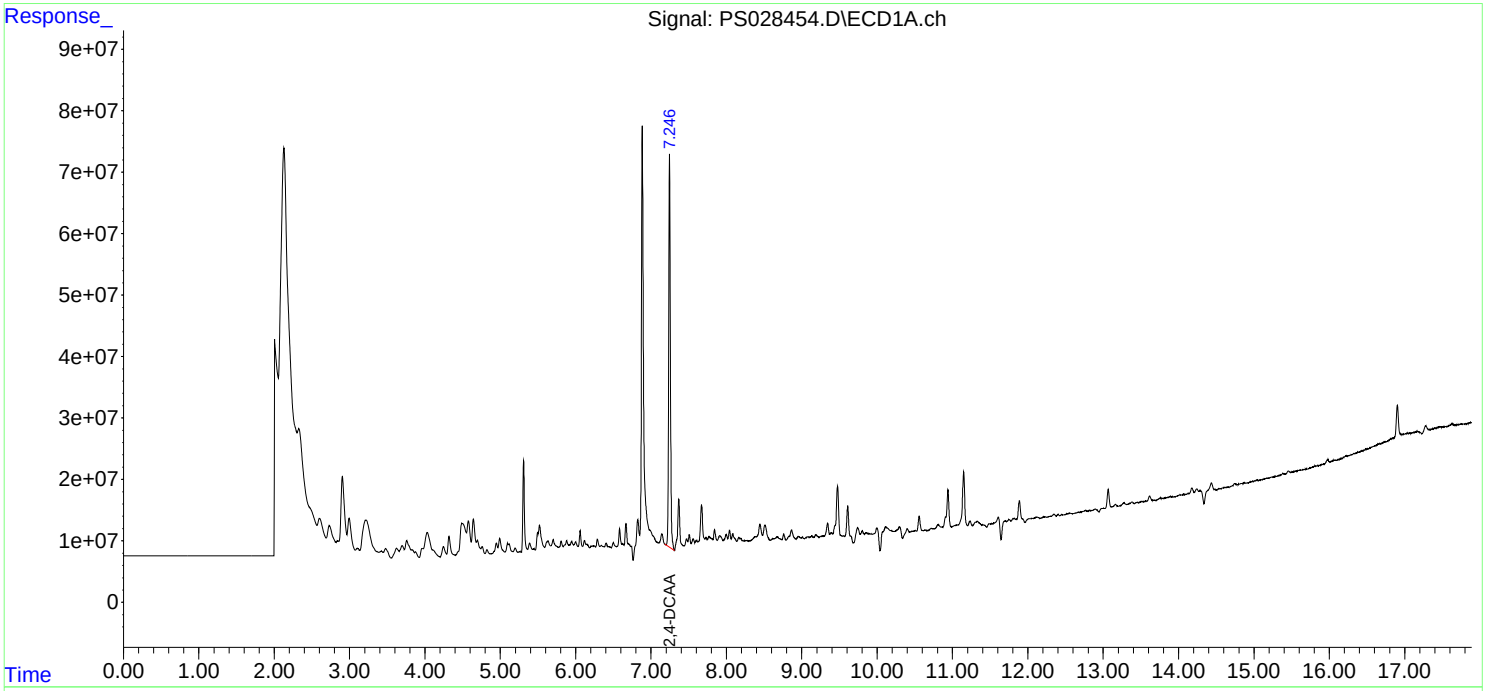
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

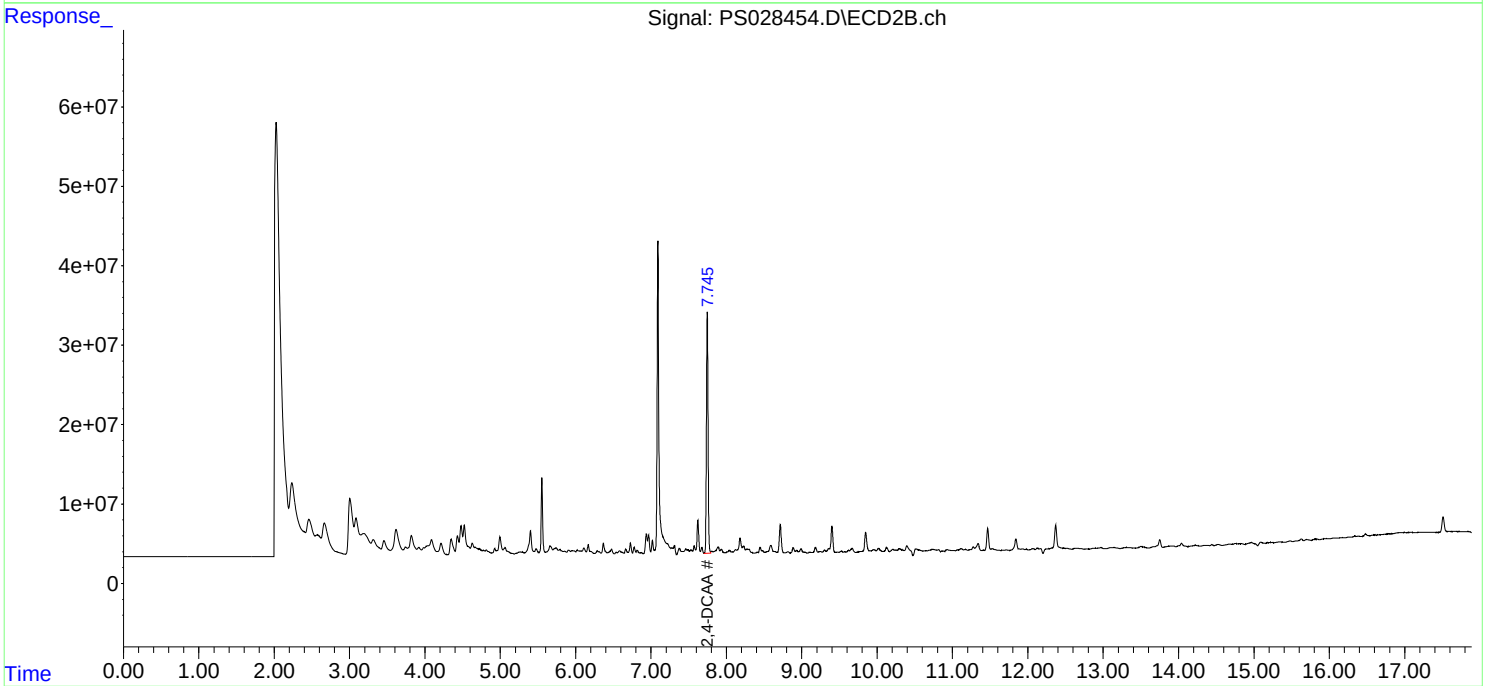
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028454.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 14:49
Operator : AR\AJ
Sample : PB164694TB
Misc :
ALS Vial : 6 Sample Multiplier: 1

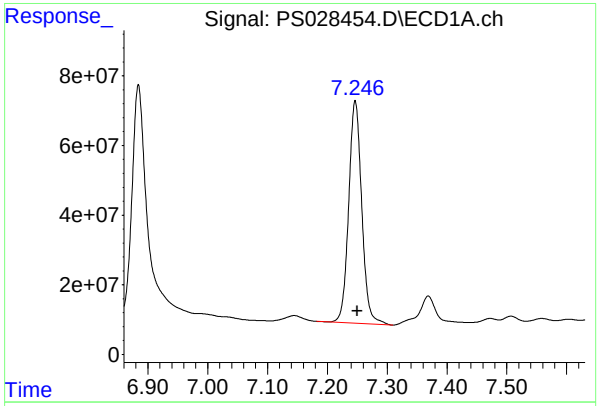
Instrument :
ECD_S
ClientSampleId :
PB164694TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:50:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



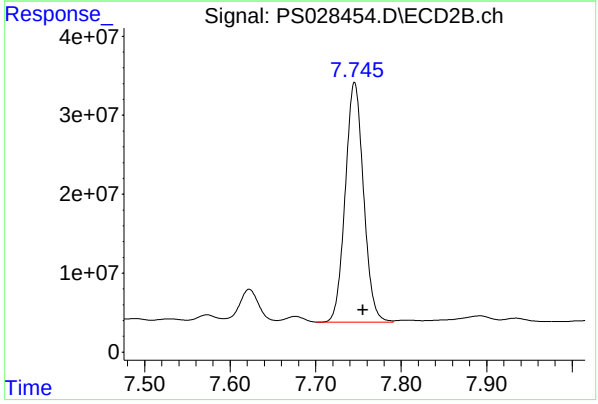




#4 2,4-DCAA

R.T.: 7.247 min
Delta R.T.: -0.003 min
Response: 969358443
Conc: 351.12 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164694TB



#4 2,4-DCAA

R.T.: 7.746 min
Delta R.T.: -0.010 min
Response: 451378108
Conc: 283.28 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028452.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 13:53
Operator : AR\AJ
Sample : PB164850BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164850BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:48:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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						
4) S	2,4-DCAA	7.246	7.746	1336.7E6	649.5E6	484.173	407.586
	Target Compounds						

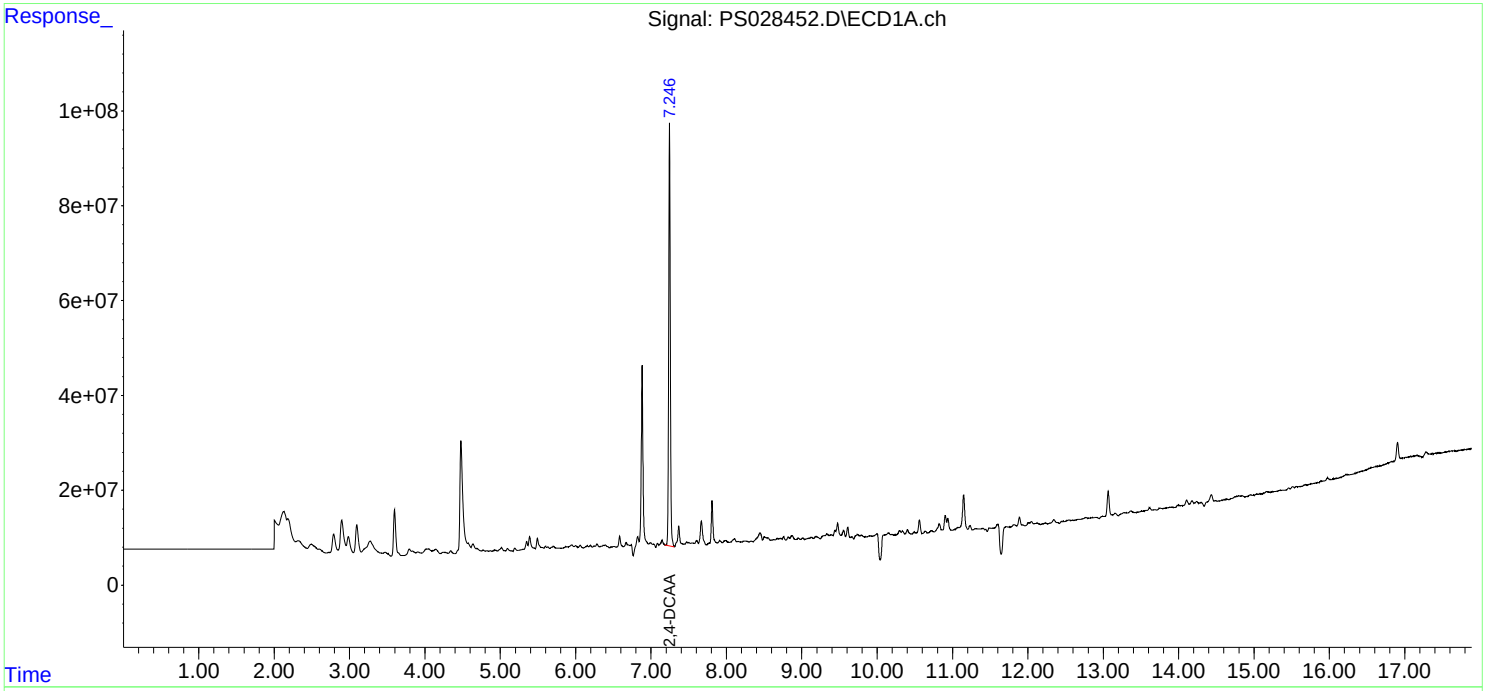
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

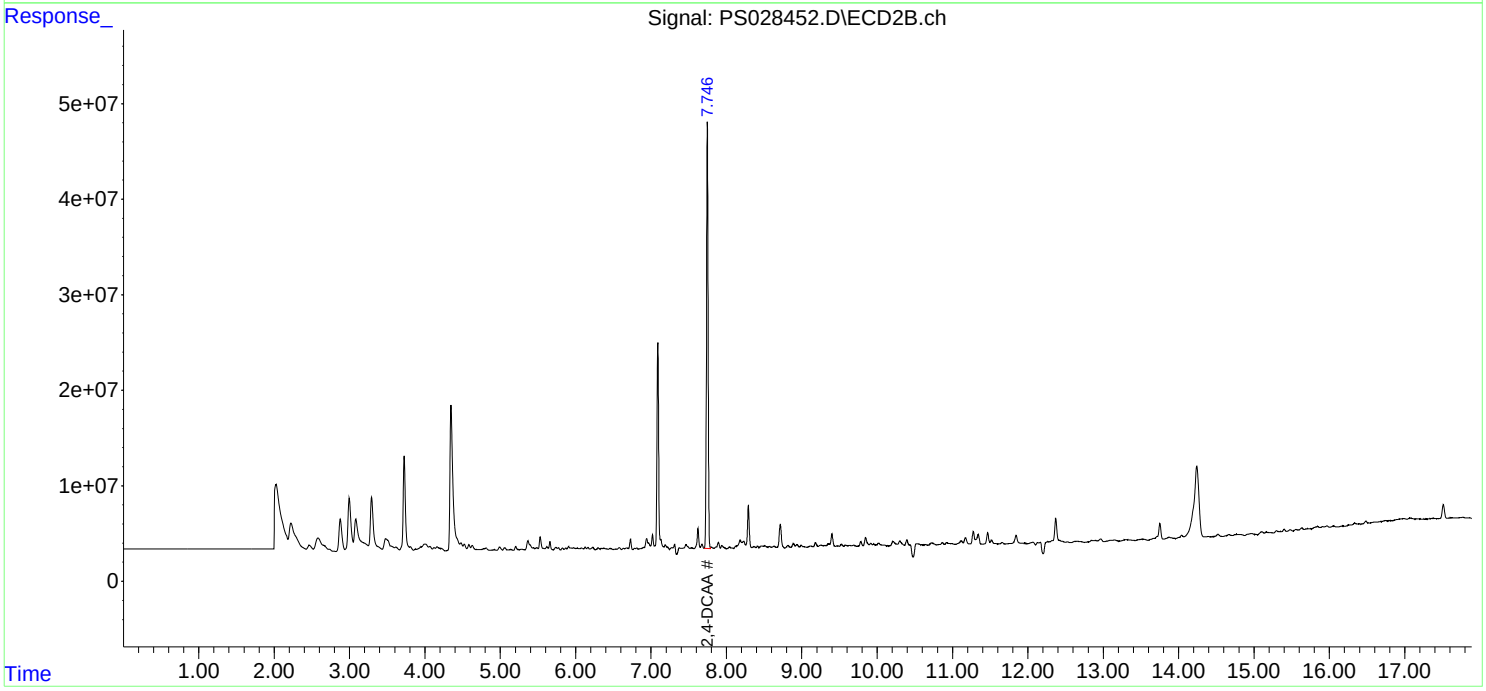
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028452.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 13:53
Operator : AR\AJ
Sample : PB164850BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

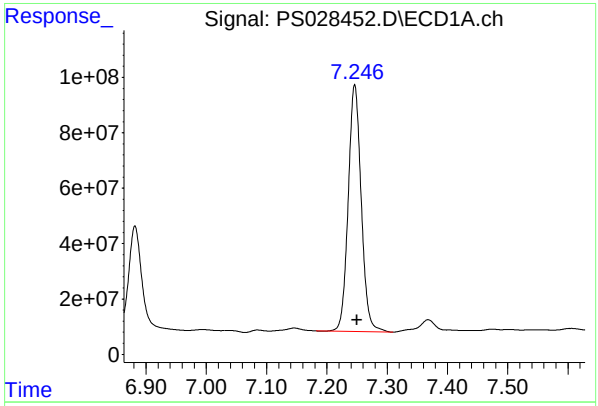
Instrument :
ECD_S
ClientSampleId :
PB164850BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:48:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



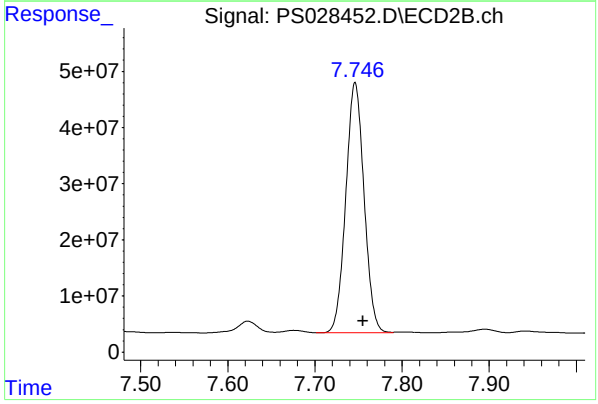




#4 2,4-DCAA

R.T.: 7.246 min
Delta R.T.: -0.004 min
Response: 1336682250
Conc: 484.17 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164850BL



#4 2,4-DCAA

R.T.: 7.746 min
Delta R.T.: -0.009 min
Response: 649456249
Conc: 407.59 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028453.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 14:17
Operator : AR\AJ
Sample : PB164850BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164850BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/13/2024
Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:49:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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						
4) S	2,4-DCAA	7.244	7.747	1473.7E6	745.8E6	533.813	468.074
	Target Compounds						
1) T	Dalapon	2.642	2.702	1603.3E6	1144.6E6	449.334	403.640
2) T	3,5-DICHL...	6.413	6.699	1978.3E6	1034.0E6	494.396	436.449
3) T	4-Nitroph...	7.043	7.273	851.3E6	434.3E6	459.111	410.058
5) T	DICAMBA	7.432	7.948	6083.4E6	3177.8E6	505.234	443.241
6) T	MCPP	7.614	8.048	386.0E6	250.1E6	47.198	42.572
7) T	MCPA	7.764	8.294	541.4E6	337.7E6	48.284	42.171
8) T	DICHLORPROP	8.142	8.665	1568.1E6	772.0E6	505.896	433.386
9) T	2,4-D	8.373	8.995	1768.2E6	858.0E6	503.150	443.669m
10) T	Pentachlo...	8.673	9.525	24641.0E6	11621.2E6	547.067	466.398
11) T	2,4,5-TP ...	9.253	9.902	9787.9E6	4837.3E6	517.087	456.686
12) T	2,4,5-T	9.547	10.323	10003.4E6	4763.8E6	516.142	459.114
13) T	2,4-DB	10.123	10.890	1514.4E6	569.9E6	489.947	429.989
14) T	DINOSEB	11.339	11.270	8131.3E6	3199.9E6	501.519	445.836
15) T	Picloram	11.144	12.368	15318.2E6	6261.2E6	487.747	435.033
16) T	DCPA	11.631	12.316	13760.1E6	5123.5E6	514.851	457.042

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

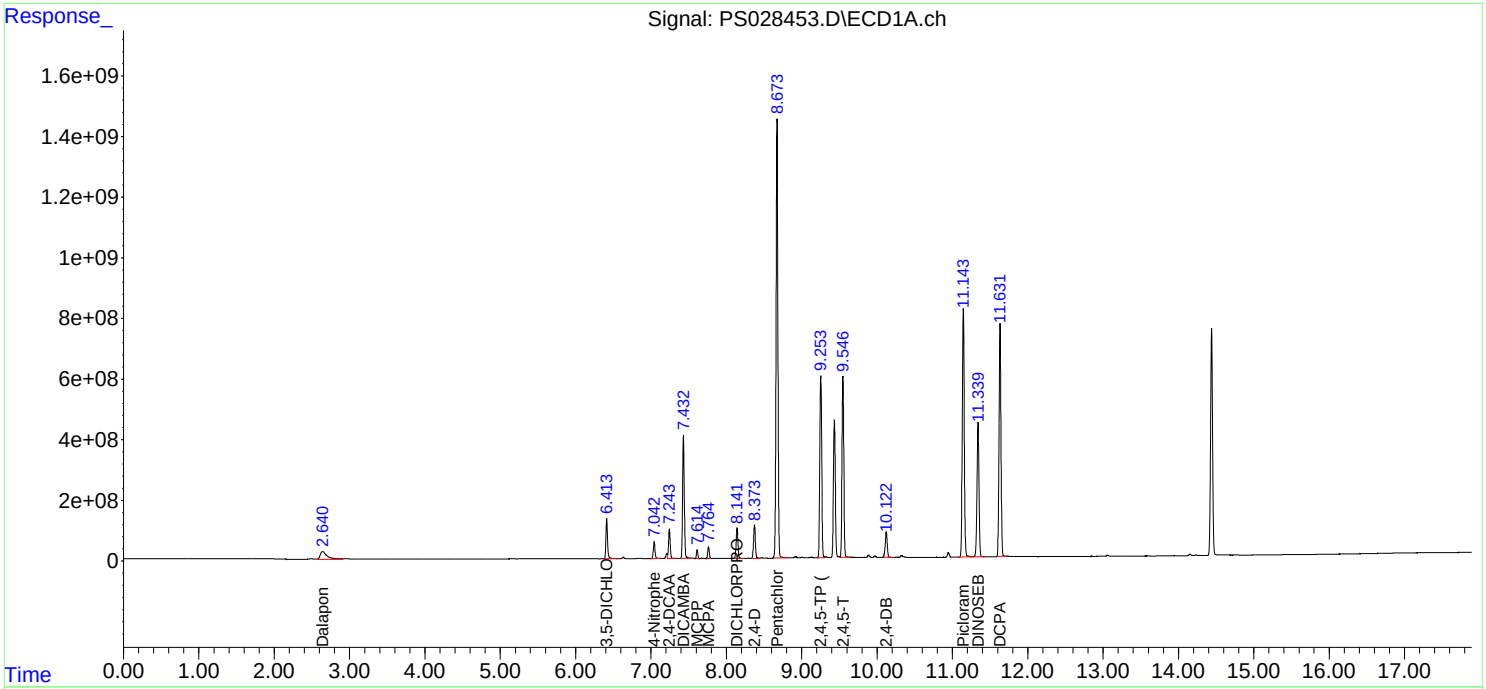
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028453.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 14:17
Operator : AR\AJ
Sample : PB164850BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

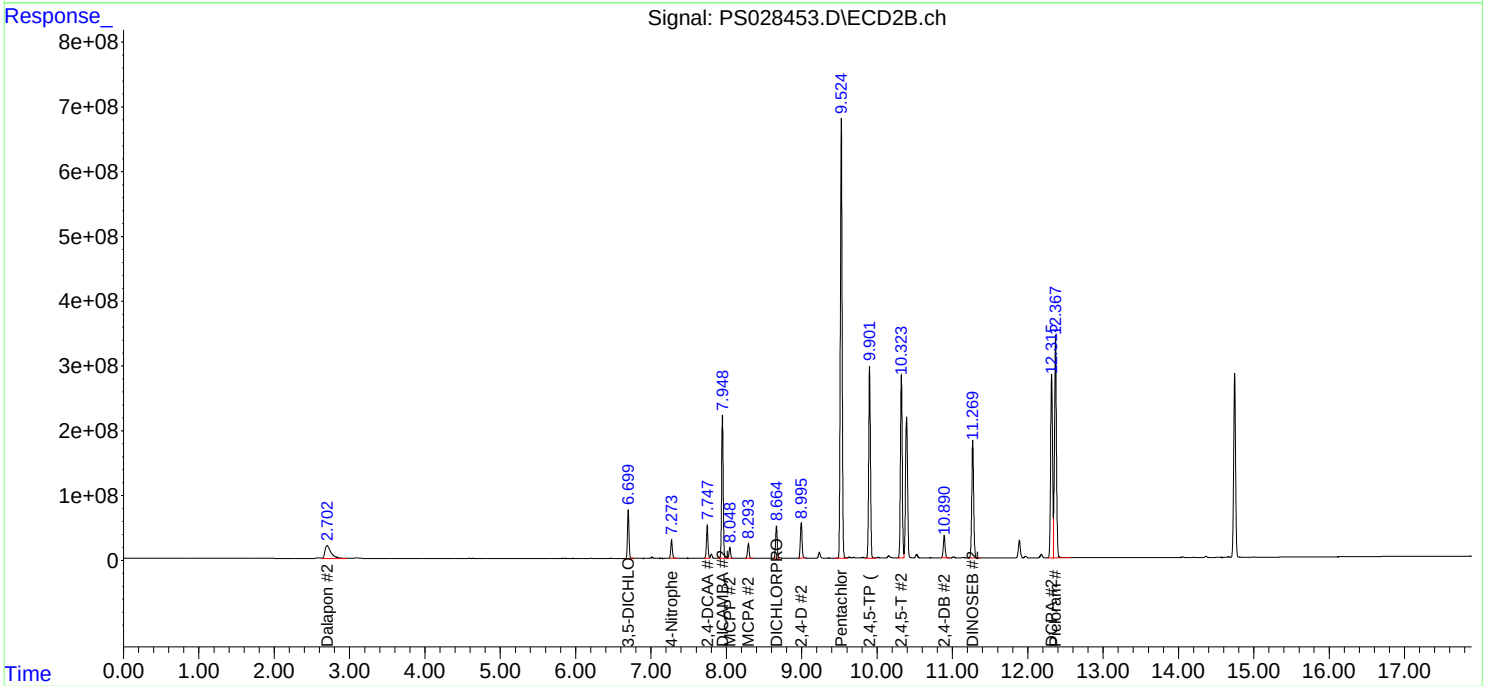
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:49:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
PB164850BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/13/2024
Supervised By :Ankita Jodhani 11/13/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028457.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 16:03
Operator : AR\AJ
Sample : P4718-03MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/13/2024
Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:52:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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						
4) S	2,4-DCAA	7.243	7.746	1003.4E6	448.7E6	363.454	281.603
	Target Compounds						
1) T	Dalapon	2.648	2.708	1090.1E6	853.3E6	305.511	300.912m
2) T	3,5-DICHL...	6.413	6.700	1633.6E6	896.5E6	408.261	378.435
5) T	DICAMBA	7.431	7.947	4729.6E6	2513.9E6	392.802	350.642
6) T	MCPP	7.613	8.048	268.6E6	196.6E6	32.837	33.460
7) T	MCPA	7.763	8.292	443.1E6	311.0E6	39.517	38.841
8) T	DICHLORPROP	8.142	8.663	1323.2E6	654.4E6	426.886	367.387
9) T	2,4-D	8.372	8.994	1674.4E6	796.6E6	476.468	411.947m
10) T	Pentachlo...	8.672	9.524	16151.6E6	7477.8E6	358.590	300.109
11) T	2,4,5-TP ...	9.253	9.904	8712.7E6	6026.7E6	460.286	568.973
12) T	2,4,5-T	9.546	10.323	8500.8E6	4004.4E6	438.614	385.924
13) T	2,4-DB	10.123	10.890	1026.4E6	423.2E6	332.078	319.341m
14) T	DINOSEB	11.337	11.270	3981.6E6	1556.1E6	245.578m	216.807
15) T	Picloram	11.143	12.367	11550.6E6	4685.2E6	367.784	325.532
16) T	DCPA	11.629	12.316	11377.0E6	4781.3E6	425.682	426.518

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

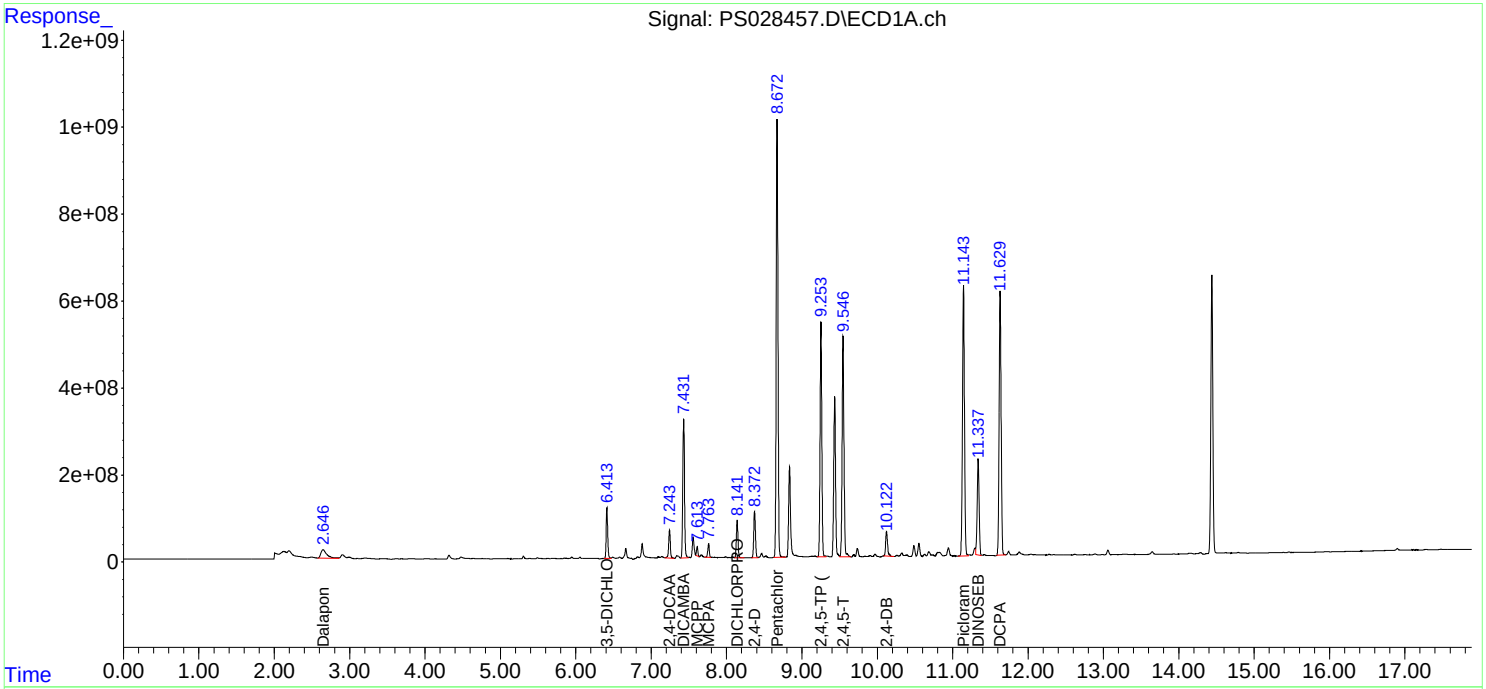
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028457.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 16:03
Operator : AR\AJ
Sample : P4718-03MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

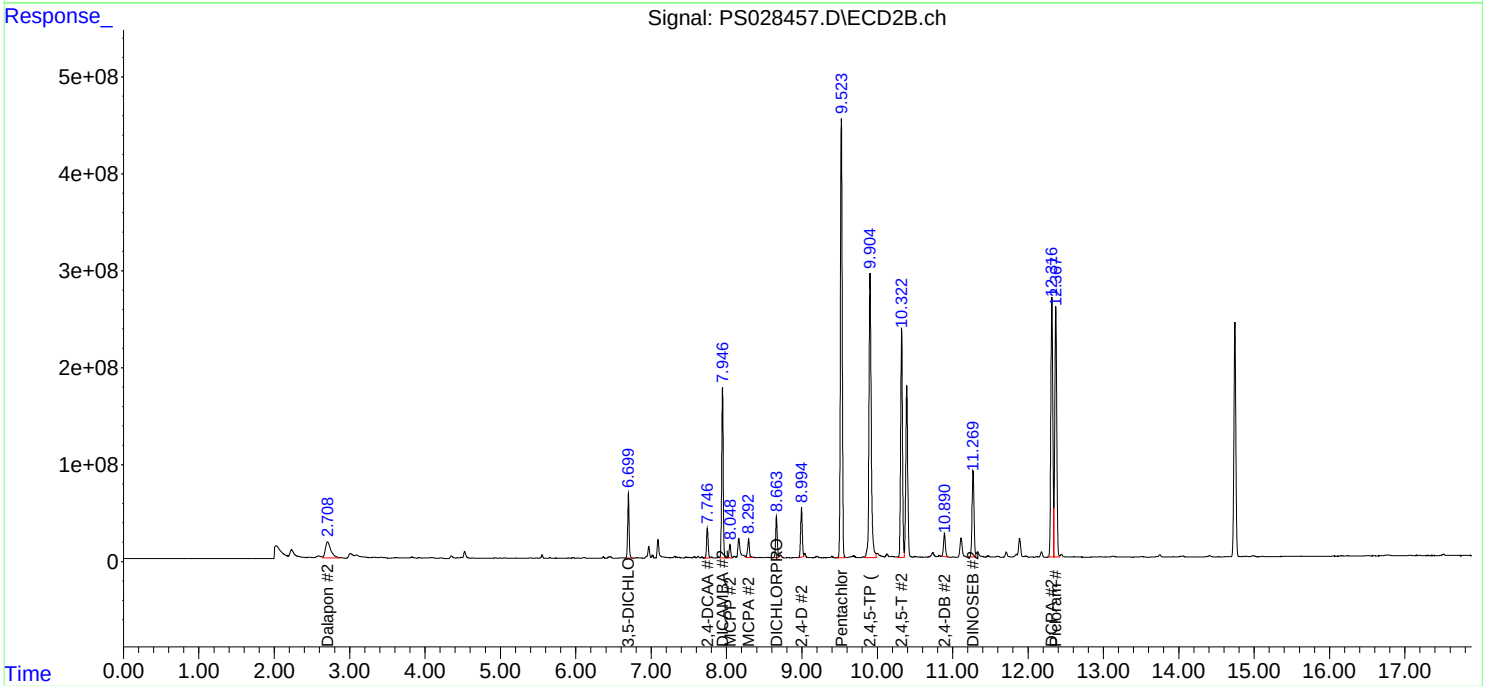
Instrument :
ECD_S
ClientSampleId :
WB-307-SB02MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/13/2024
Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:52:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028458.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 16:27
Operator : AR\AJ
Sample : P4718-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/13/2024
Supervised By :Ankita Jodhani 11/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:53:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 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						
4)	S	2,4-DCAA	7.242	7.746	1010.9E6	449.7E6	366.165	282.219
		Target Compounds						
1)	T	Dalapon	2.645	2.707	1085.7E6	883.8E6	304.269	311.686m
2)	T	3,5-DICHL...	6.413	6.699	1637.7E6	909.6E6	409.275	383.951m
5)	T	DICAMBA	7.431	7.947	4745.0E6	2525.0E6	394.077	352.182
6)	T	MCPP	7.612	8.048	268.8E6	197.0E6	32.870	33.531
7)	T	MCPA	7.762	8.292	447.0E6	315.8E6	39.871	39.434
8)	T	DICHLORPROP	8.141	8.664	1329.8E6	658.3E6	429.020	369.584
9)	T	2,4-D	8.372	8.994	1679.5E6	824.8E6	477.904	426.508m
10)	T	Pentachlo...	8.671	9.524	16218.0E6	7515.5E6	360.063	301.622
11)	T	2,4,5-TP ...	9.253	9.905	8739.5E6	6210.7E6	461.699	586.342 #
12)	T	2,4,5-T	9.546	10.323	8504.4E6	4019.3E6	438.799	387.361
13)	T	2,4-DB	10.123	10.890	1029.9E6	419.1E6	333.195	316.242m
14)	T	DINOSEB	11.337	11.269	4050.7E6	1558.4E6	249.839	217.126
15)	T	Picloram	11.142	12.367	11606.3E6	4702.5E6	369.556	326.732
16)	T	DCPA	11.629	12.315	11355.7E6	4797.6E6	424.885	427.974

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

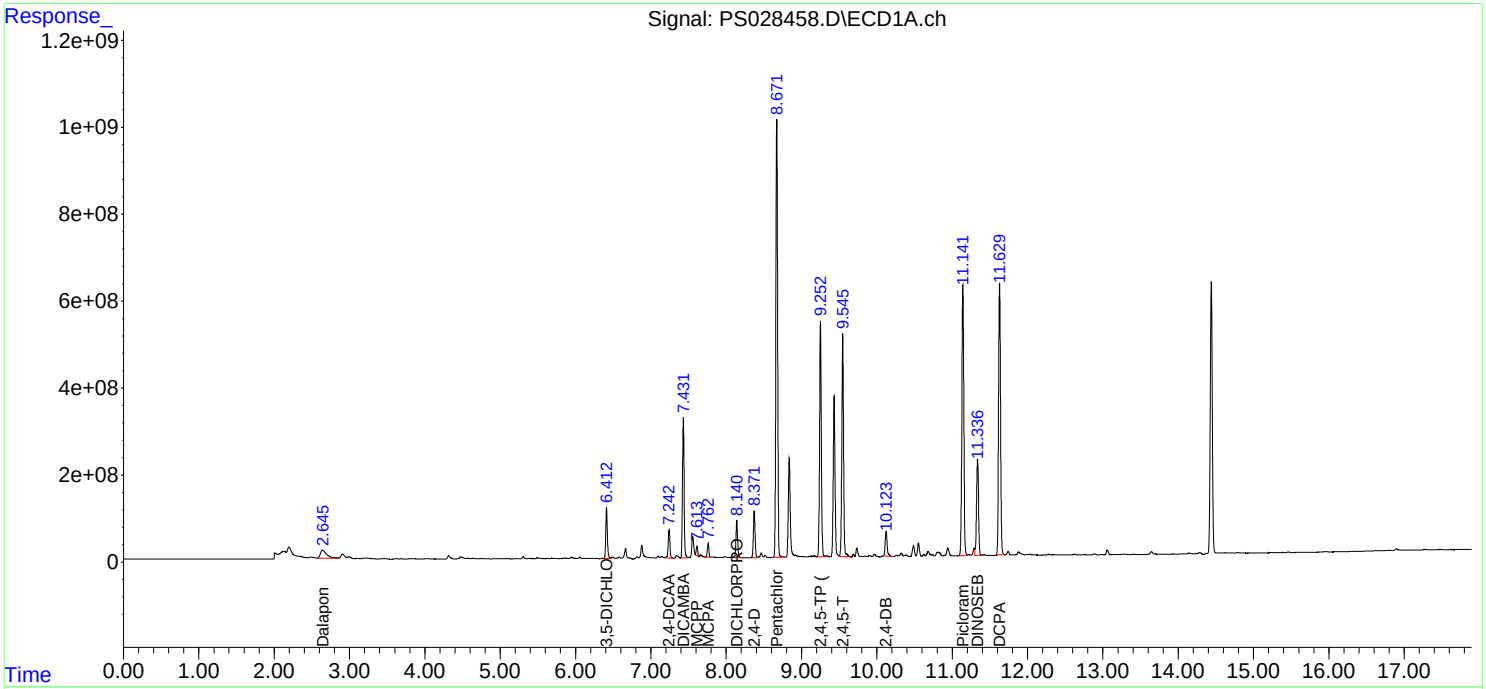
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111224\
Data File : PS028458.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Nov 2024 16:27
Operator : AR\AJ
Sample : P4718-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

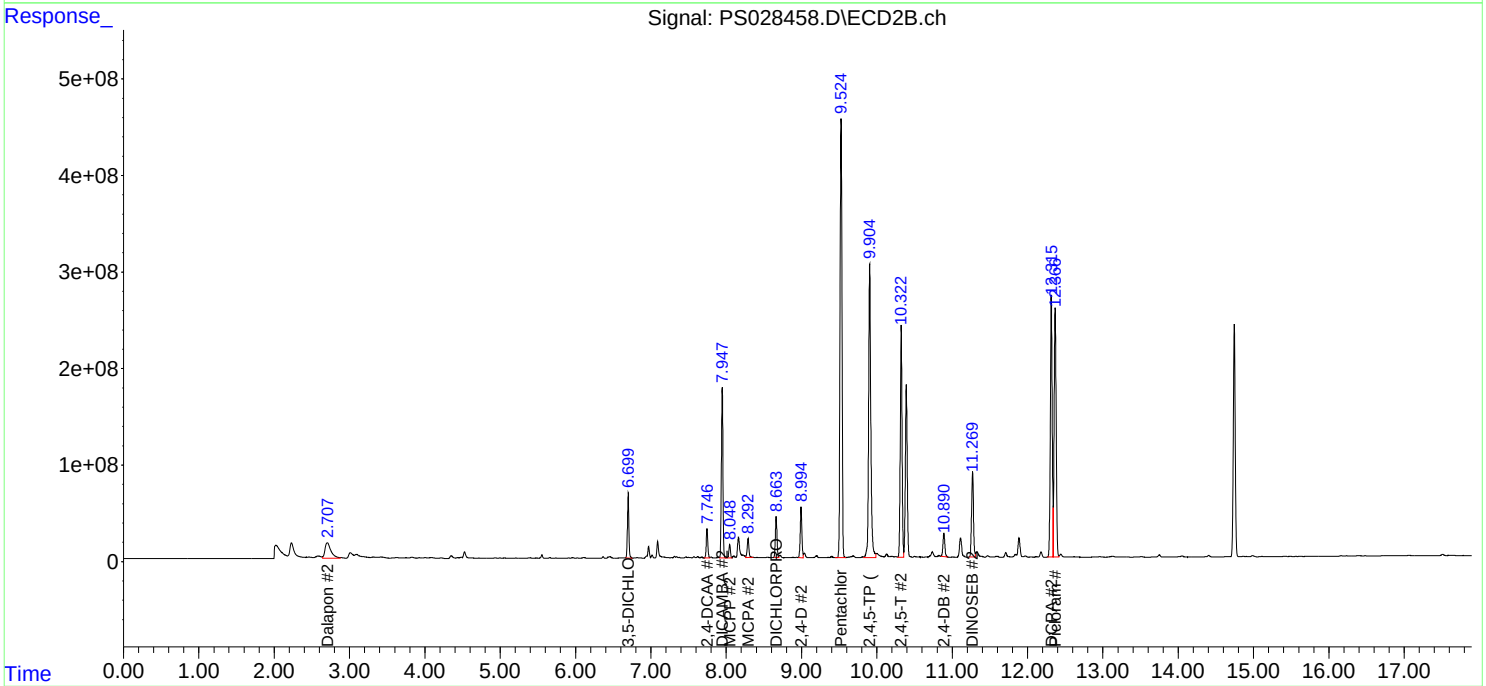
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 12 23:53:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Instrument :
ECD_S
ClientSampleId :
WB-307-SB02MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/13/2024
Supervised By :Ankita Jodhani 11/13/2024





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

Manual Integration Report

Sequence:	PS110924	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC500	PS028357.D	2,4-DCAA	Abdul	11/11/2024 5:06:04 PM	Ankita	11/12/2024 8:58:43	Peak Integrated by Software
I.BLK	PS028362.D	2,4-DCAA	Abdul	11/11/2024 5:06:07 PM	Ankita	11/12/2024 8:58:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS111224	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028450.D	2,4-DCAA	Abdul	11/13/2024 9:36:22 AM	Ankita	11/13/2024 10:38:17	Peak Integrated by Software
HSTDCCC750	PS028451.D	2,4-D #2	Abdul	11/13/2024 9:36:28 AM	Ankita	11/13/2024 10:38:19	Peak Integrated by Software
HSTDCCC750	PS028451.D	2,4-DCAA	Abdul	11/13/2024 9:36:28 AM	Ankita	11/13/2024 10:38:19	Peak Integrated by Software
PB164850BS	PS028453.D	2,4-D #2	Abdul	11/13/2024 9:33:59 AM	Ankita	11/13/2024 10:38:21	Peak Integrated by Software
P4718-03MS	PS028457.D	2,4-D #2	yogesh	11/13/2024 2:53:12 PM	Ankita	11/13/2024 2:53:22	Peak Integrated by Software
P4718-03MS	PS028457.D	2,4-DB #2	yogesh	11/13/2024 2:53:12 PM	Ankita	11/13/2024 2:53:22	Peak Integrated by Software
P4718-03MS	PS028457.D	Dalapon #2	yogesh	11/13/2024 2:53:12 PM	Ankita	11/13/2024 2:53:22	Peak Integrated by Software
P4718-03MS	PS028457.D	DINOSEB	yogesh	11/13/2024 2:53:12 PM	Ankita	11/13/2024 2:53:22	Peak Integrated by Software
P4718-03MSD	PS028458.D	2,4-D #2	yogesh	11/13/2024 2:53:14 PM	Ankita	11/13/2024 2:53:24	Peak Integrated by Software
P4718-03MSD	PS028458.D	2,4-DB #2	yogesh	11/13/2024 2:53:14 PM	Ankita	11/13/2024 2:53:24	Peak Integrated by Software
P4718-03MSD	PS028458.D	3,5-DICHLOROBENZOIC ACID #2	yogesh	11/13/2024 2:53:14 PM	Ankita	11/13/2024 2:53:24	Peak Integrated by Software
P4718-03MSD	PS028458.D	Dalapon #2	yogesh	11/13/2024 2:53:14 PM	Ankita	11/13/2024 2:53:24	Peak Integrated by Software
HSTDCCC750	PS028463.D	2,4-D #2	Abdul	11/13/2024 9:34:26 AM	Ankita	11/13/2024 10:38:28	Peak Integrated by Software

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Manual Integration Report

Sequence:	PS111224	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS028472.D	2,4-DCAA	Abdul	11/13/2024 9:34:40 AM	Ankita	11/13/2024 10:38:33	Peak Integrated by Software
HSTDCCC750	PS028473.D	2,4-D #2	Abdul	11/13/2024 9:34:45 AM	Ankita	11/13/2024 10:38:35	Peak Integrated by Software
HSTDCCC750	PS028473.D	4-Nitrophenol #2	Abdul	11/13/2024 9:34:45 AM	Ankita	11/13/2024 10:38:35	Peak Integrated by Software
HSTDCCC750	PS028483.D	2,4-D #2	Abdul	11/13/2024 9:35:13 AM	Ankita	11/13/2024 10:38:47	Peak Integrated by Software
HSTDCCC750	PS028483.D	2,4-DB #2	Abdul	11/13/2024 9:35:13 AM	Ankita	11/13/2024 10:38:47	Peak Integrated by Software
HSTDCCC750	PS028483.D	3,5-DICHLOROBENZOIC ACID #2	Abdul	11/13/2024 9:35:13 AM	Ankita	11/13/2024 10:38:47	Peak Integrated by Software
HSTDCCC750	PS028483.D	DICHLORPROP #2	Abdul	11/13/2024 9:35:13 AM	Ankita	11/13/2024 10:38:47	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028354.D	08 Nov 2024 14:00	AR\AJ	Ok
2	I.BLK	PS028355.D	08 Nov 2024 14:25	AR\AJ	Ok
3	HSTDICC200	PS028356.D	08 Nov 2024 15:13	AR\AJ	Ok
4	HSTDICC500	PS028357.D	08 Nov 2024 15:46	AR\AJ	Ok,M
5	HSTDICC750	PS028358.D	08 Nov 2024 16:10	AR\AJ	Ok
6	HSTDICC1000	PS028359.D	08 Nov 2024 16:34	AR\AJ	Ok
7	HSTDICC1500	PS028360.D	08 Nov 2024 16:58	AR\AJ	Ok
8	HSTDICV750	PS028361.D	08 Nov 2024 17:22	AR\AJ	Ok
9	I.BLK	PS028362.D	08 Nov 2024 17:46	AR\AJ	Ok,M
10	HSTDCCC750	PS028363.D	08 Nov 2024 18:10	AR\AJ	Ok
11	P4700-01	PS028364.D	08 Nov 2024 18:34	AR\AJ	Ok,M
12	P4701-01	PS028365.D	08 Nov 2024 18:58	AR\AJ	Ok,M
13	P4701-05	PS028366.D	08 Nov 2024 19:22	AR\AJ	Ok
14	PB164754BL	PS028367.D	08 Nov 2024 19:46	AR\AJ	Ok
15	PB164754BS	PS028368.D	08 Nov 2024 20:10	AR\AJ	Ok,M
16	P4722-03	PS028369.D	08 Nov 2024 20:34	AR\AJ	Not Ok
17	P4722-08	PS028370.D	08 Nov 2024 20:58	AR\AJ	Ok,M
18	P4722-13	PS028371.D	08 Nov 2024 21:22	AR\AJ	Not Ok
19	P4739-01	PS028372.D	08 Nov 2024 21:46	AR\AJ	Ok,M
20	P4739-01MS	PS028373.D	08 Nov 2024 22:10	AR\AJ	Ok,M
21	P4739-01MSD	PS028374.D	08 Nov 2024 22:34	AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4739-05	PS028375.D	08 Nov 2024 22:58	AR\AJ	Ok
23	P4739-09	PS028376.D	08 Nov 2024 23:22	AR\AJ	Ok,M
24	P4739-13	PS028377.D	08 Nov 2024 23:46	AR\AJ	Ok,M
25	I.BLK	PS028378.D	09 Nov 2024 00:10	AR\AJ	Ok
26	HSTDCCC750	PS028379.D	09 Nov 2024 00:34	AR\AJ	Ok
27	P4601-24RE	PS028380.D	09 Nov 2024 00:58	AR\AJ	Not Ok
28	P4601-25RE	PS028381.D	09 Nov 2024 01:22	AR\AJ	Not Ok
29	P4601-26RE	PS028382.D	09 Nov 2024 01:46	AR\AJ	Not Ok
30	P4602-43	PS028383.D	09 Nov 2024 02:10	AR\AJ	Not Ok
31	P4602-44MS	PS028384.D	09 Nov 2024 02:34	AR\AJ	Not Ok
32	P4602-45MSD	PS028385.D	09 Nov 2024 02:58	AR\AJ	Not Ok
33	P4602-40	PS028386.D	09 Nov 2024 03:22	AR\AJ	Not Ok
34	P4602-41MS	PS028387.D	09 Nov 2024 03:46	AR\AJ	Not Ok
35	P4602-42MSD	PS028388.D	09 Nov 2024 04:10	AR\AJ	Not Ok
36	PB164393TB	PS028389.D	09 Nov 2024 04:34	AR\AJ	Not Ok
37	I.BLK	PS028390.D	09 Nov 2024 04:58	AR\AJ	Not Ok
38	HSTDCCC750	PS028391.D	09 Nov 2024 05:22	AR\AJ	Not Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111224

Review By	Abdul	Review On	11/13/2024 9:35:41 AM		
Supervise By	Ankita	Supervise On	11/13/2024 10:39:11 AM		
SubDirectory	PS111224	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS028449.D	12 Nov 2024 12:36	AR\AJ	Ok
2	I.BLK	PS028450.D	12 Nov 2024 13:00	AR\AJ	Ok,M
3	HSTDCCC750	PS028451.D	12 Nov 2024 13:25	AR\AJ	Ok,M
4	PB164850BL	PS028452.D	12 Nov 2024 13:53	AR\AJ	Ok
5	PB164850BS	PS028453.D	12 Nov 2024 14:17	AR\AJ	Ok,M
6	PB164694TB	PS028454.D	12 Nov 2024 14:49	AR\AJ	Ok
7	PB164793TB	PS028455.D	12 Nov 2024 15:14	AR\AJ	Ok
8	P4718-03	PS028456.D	12 Nov 2024 15:38	AR\AJ	Ok
9	P4718-03MS	PS028457.D	12 Nov 2024 16:03	AR\AJ	Ok,M
10	P4718-03MSD	PS028458.D	12 Nov 2024 16:27	AR\AJ	Ok,M
11	P4722-04	PS028459.D	12 Nov 2024 16:51	AR\AJ	Ok,M
12	P4722-09	PS028460.D	12 Nov 2024 17:16	AR\AJ	Ok
13	P4722-14	PS028461.D	12 Nov 2024 17:41	AR\AJ	Ok,M
14	I.BLK	PS028462.D	12 Nov 2024 18:04	AR\AJ	Ok
15	HSTDCCC750	PS028463.D	12 Nov 2024 18:29	AR\AJ	Ok,M
16	P4732-02	PS028464.D	12 Nov 2024 19:18	AR\AJ	Ok
17	P4771-06	PS028465.D	12 Nov 2024 19:43	AR\AJ	Ok
18	P4771-08	PS028466.D	12 Nov 2024 20:08	AR\AJ	Ok,M
19	PB164908BL	PS028467.D	12 Nov 2024 20:32	AR\AJ	Ok
20	PB164908BS	PS028468.D	12 Nov 2024 20:56	AR\AJ	Ok,M
21	PB164904TB	PS028469.D	12 Nov 2024 21:21	AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111224

Review By	Abdul	Review On	11/13/2024 9:35:41 AM		
Supervise By	Ankita	Supervise On	11/13/2024 10:39:11 AM		
SubDirectory	PS111224	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4722-05	PS028470.D	12 Nov 2024 21:45	AR\AJ	Ok
23	P4722-10	PS028471.D	12 Nov 2024 22:09	AR\AJ	Ok
24	I.BLK	PS028472.D	12 Nov 2024 22:34	AR\AJ	Ok,M
25	HSTDCCC750	PS028473.D	12 Nov 2024 22:57	AR\AJ	Ok,M
26	P4722-15	PS028474.D	12 Nov 2024 23:46	AR\AJ	Ok
27	P4722-10MS	PS028475.D	13 Nov 2024 00:10	AR\AJ	Ok,M
28	P4722-10MSD	PS028476.D	13 Nov 2024 00:34	AR\AJ	Ok,M
29	PB164910BL	PS028477.D	13 Nov 2024 00:59	AR\AJ	Ok
30	PB164910BS	PS028478.D	13 Nov 2024 01:23	AR\AJ	Ok,M
31	PB164910BSD	PS028479.D	13 Nov 2024 01:48	AR\AJ	Ok,M
32	P4791-02	PS028480.D	13 Nov 2024 02:12	AR\AJ	Ok
33	P4792-04	PS028481.D	13 Nov 2024 02:36	AR\AJ	Ok,M
34	I.BLK	PS028482.D	13 Nov 2024 03:01	AR\AJ	Ok
35	HSTDCCC750	PS028483.D	13 Nov 2024 04:14	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028354.D	08 Nov 2024 14:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028355.D	08 Nov 2024 14:25		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028356.D	08 Nov 2024 15:13		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS028357.D	08 Nov 2024 15:46		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028358.D	08 Nov 2024 16:10		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028359.D	08 Nov 2024 16:34		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS028360.D	08 Nov 2024 16:58		AR\AJ	Ok
8	HSTDICV750	ICVPS110924	PS028361.D	08 Nov 2024 17:22		AR\AJ	Ok
9	I.BLK	I.BLK	PS028362.D	08 Nov 2024 17:46		AR\AJ	Ok,M
10	HSTDCCC750	HSTDCCC750	PS028363.D	08 Nov 2024 18:10		AR\AJ	Ok
11	P4700-01	MH-8	PS028364.D	08 Nov 2024 18:34		AR\AJ	Ok,M
12	P4701-01	BP-F3	PS028365.D	08 Nov 2024 18:58		AR\AJ	Ok,M
13	P4701-05	BP-F4	PS028366.D	08 Nov 2024 19:22		AR\AJ	Ok
14	PB164754BL	PB164754BL	PS028367.D	08 Nov 2024 19:46		AR\AJ	Ok
15	PB164754BS	PB164754BS	PS028368.D	08 Nov 2024 20:10		AR\AJ	Ok,M
16	P4722-03	WC-1(0-6)	PS028369.D	08 Nov 2024 20:34	2,4-DCAA low in both column	AR\AJ	Not Ok
17	P4722-08	WC-2(0-6)	PS028370.D	08 Nov 2024 20:58		AR\AJ	Ok,M
18	P4722-13	WC-3(0-6)	PS028371.D	08 Nov 2024 21:22	2,4-DCAA Low in both column	AR\AJ	Not Ok

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4739-01	TP-14	PS028372.D	08 Nov 2024 21:46		AR\AJ	Ok,M
20	P4739-01MS	TP-14MS	PS028373.D	08 Nov 2024 22:10	Some compound recovery fail	AR\AJ	Ok,M
21	P4739-01MSD	TP-14MSD	PS028374.D	08 Nov 2024 22:34	Some compound recovery fail	AR\AJ	Ok,M
22	P4739-05	BP-G2	PS028375.D	08 Nov 2024 22:58		AR\AJ	Ok
23	P4739-09	BP-B2	PS028376.D	08 Nov 2024 23:22		AR\AJ	Ok,M
24	P4739-13	TP-11	PS028377.D	08 Nov 2024 23:46		AR\AJ	Ok,M
25	I.BLK	I.BLK	PS028378.D	09 Nov 2024 00:10		AR\AJ	Ok
26	HSTDCCC750	HSTDCCC750	PS028379.D	09 Nov 2024 00:34		AR\AJ	Ok
27	P4601-24RE	CC0P1RE	PS028380.D	09 Nov 2024 00:58	Closing CCC fail,	AR\AJ	Not Ok
28	P4601-25RE	CC0P3RE	PS028381.D	09 Nov 2024 01:22	Closing CCC fail,	AR\AJ	Not Ok
29	P4601-26RE	CC0P5RE	PS028382.D	09 Nov 2024 01:46	Closing CCC fail,	AR\AJ	Not Ok
30	P4602-43	CC0R8	PS028383.D	09 Nov 2024 02:10	, Closing CCC fail	AR\AJ	Not Ok
31	P4602-44MS	CC0R8MS	PS028384.D	09 Nov 2024 02:34	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
32	P4602-45MSD	CC0R8MSD	PS028385.D	09 Nov 2024 02:58	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
33	P4602-40	CC0R6	PS028386.D	09 Nov 2024 03:22	Closing CCC fail	AR\AJ	Not Ok
34	P4602-41MS	CC0R6MS	PS028387.D	09 Nov 2024 03:46	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
35	P4602-42MSD	CC0R6MSD	PS028388.D	09 Nov 2024 04:10	Some compound recovery fail, RPD fail, Closing CCC fail	AR\AJ	Not Ok
36	PB164393TB	PB164393TB	PS028389.D	09 Nov 2024 04:34	Closing CCC fail	AR\AJ	Not Ok

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM		
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM		
SubDirectory	PS110924	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	I.BLK	I.BLK	PS028390.D	09 Nov 2024 04:58	Closing CCC fail	AR\AJ	Not Ok
38	HSTDCCC750	HSTDCCC750	PS028391.D	09 Nov 2024 05:22	CCC fail	AR\AJ	Not Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111224

Review By	Abdul	Review On	11/13/2024 9:35:41 AM		
Supervise By	Ankita	Supervise On	11/13/2024 10:39:11 AM		
SubDirectory	PS111224	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS028449.D	12 Nov 2024 12:36		AR\AJ	Ok
2	I.BLK	I.BLK	PS028450.D	12 Nov 2024 13:00		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS028451.D	12 Nov 2024 13:25		AR\AJ	Ok,M
4	PB164850BL	PB164850BL	PS028452.D	12 Nov 2024 13:53		AR\AJ	Ok
5	PB164850BS	PB164850BS	PS028453.D	12 Nov 2024 14:17		AR\AJ	Ok,M
6	PB164694TB	PB164694TB	PS028454.D	12 Nov 2024 14:49		AR\AJ	Ok
7	PB164793TB	PB164793TB	PS028455.D	12 Nov 2024 15:14		AR\AJ	Ok
8	P4718-03	WB-307-SB02	PS028456.D	12 Nov 2024 15:38		AR\AJ	Ok
9	P4718-03MS	WB-307-SB02MS	PS028457.D	12 Nov 2024 16:03	Some compound recovery fail	AR\AJ	Ok,M
10	P4718-03MSD	WB-307-SB02MSD	PS028458.D	12 Nov 2024 16:27	Some compound recovery fail	AR\AJ	Ok,M
11	P4722-04	WC-1(0-6)	PS028459.D	12 Nov 2024 16:51		AR\AJ	Ok,M
12	P4722-09	WC-2(0-6)	PS028460.D	12 Nov 2024 17:16		AR\AJ	Ok
13	P4722-14	WC-3(0-6)	PS028461.D	12 Nov 2024 17:41		AR\AJ	Ok,M
14	I.BLK	I.BLK	PS028462.D	12 Nov 2024 18:04		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS028463.D	12 Nov 2024 18:29		AR\AJ	Ok,M
16	P4732-02	PPE-COMP	PS028464.D	12 Nov 2024 19:18		AR\AJ	Ok
17	P4771-06	P-1	PS028465.D	12 Nov 2024 19:43		AR\AJ	Ok
18	P4771-08	P-2	PS028466.D	12 Nov 2024 20:08		AR\AJ	Ok,M

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS111224

Review By	Abdul	Review On	11/13/2024 9:35:41 AM		
Supervise By	Ankita	Supervise On	11/13/2024 10:39:11 AM		
SubDirectory	PS111224	HP Acquire Method		HP Processing Method	ps110924 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB164908BL	PB164908BL	PS028467.D	12 Nov 2024 20:32		AR\AJ	Ok
20	PB164908BS	PB164908BS	PS028468.D	12 Nov 2024 20:56		AR\AJ	Ok,M
21	PB164904TB	PB164904TB	PS028469.D	12 Nov 2024 21:21		AR\AJ	Ok
22	P4722-05	WC-1(0-6)	PS028470.D	12 Nov 2024 21:45		AR\AJ	Ok
23	P4722-10	WC-2(0-6)	PS028471.D	12 Nov 2024 22:09		AR\AJ	Ok
24	I.BLK	I.BLK	PS028472.D	12 Nov 2024 22:34		AR\AJ	Ok,M
25	HSTDCCC750	HSTDCCC750	PS028473.D	12 Nov 2024 22:57		AR\AJ	Ok,M
26	P4722-15	WC-3(0-6)	PS028474.D	12 Nov 2024 23:46		AR\AJ	Ok
27	P4722-10MS	WC-2(0-6)MS	PS028475.D	13 Nov 2024 00:10		AR\AJ	Ok,M
28	P4722-10MSD	WC-2(0-6)MSD	PS028476.D	13 Nov 2024 00:34		AR\AJ	Ok,M
29	PB164910BL	PB164910BL	PS028477.D	13 Nov 2024 00:59		AR\AJ	Ok
30	PB164910BS	PB164910BS	PS028478.D	13 Nov 2024 01:23		AR\AJ	Ok,M
31	PB164910BSD	PB164910BSD	PS028479.D	13 Nov 2024 01:48		AR\AJ	Ok,M
32	P4791-02	HINCHMAN-OILY-WAT	PS028480.D	13 Nov 2024 02:12		AR\AJ	Ok
33	P4792-04	MANHOLE-WASTE-DR	PS028481.D	13 Nov 2024 02:36		AR\AJ	Ok,M
34	I.BLK	I.BLK	PS028482.D	13 Nov 2024 03:01		AR\AJ	Ok
35	HSTDCCC750	HSTDCCC750	PS028483.D	13 Nov 2024 04:14		AR\AJ	Ok,M

M : Manual Integration

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TCLP EXTRACTION LOGPAGE

PB164694

SOP ID :	M1311-TCLP-15		
SDG No :	N/A	**Start Prep Date :** 11/06/2024	**Time :** 16:45
Weigh By :	JP	**End Prep Date :** 11/07/2024	**Time :** 09:35
Balance ID :	WC SC-4	**Combination Ratio :**	20
pH Meter ID :	WC PH METER-1	**ZHE Cleaning Batch :**	N/A
Extraction By :	JP	**Initial Room Temperature:**	24 °C
Filter By :	JP	**Final Room Temperature:**	23 °C
Pippete ID :	WC	**TCLP Technician Signature :**	JP
Tumbler ID :	T-1 / T-2	**Supervisor By :**	SJ
TCLP Filter ID :	114771		

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	JP / Cold Room	JP / Metals
	Preparation Group	Analysis Group / ICP

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-04	WC-1(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-09	WC-2(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-14	WC-3(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4732-02	PPE-COMP	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164694TB	LEB694	N/A	N/A	N/A	N/A	N/A	N/A

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TCLP Fluid Determination

PB164694

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4718-03	WB-307-SB02	5.02	96.5	8.4	3.0	#1	4.94
P4719-03	BAYAVE-STOCKPILE	5.01	96.5	8.4	3.0	#1	4.94
P4720-05	JC-701-COMP-01	5.02	96.5	6.0	2.0	#1	4.94
P4722-04	WC-1(0-6)	5.03	96.5	9.4	4.0	#1	4.94
P4722-09	WC-2(0-6)	5.02	96.5	9.0	3.5	#1	4.94
P4722-14	WC-3(0-6)	5.01	96.5	8.6	3.5	#1	4.94
P4732-02	PPE-COMP	5.00	96.5	8.4	3.0	#1	4.94
P4738-02	72-12018	5.02	96.5	7.0	2.5	#1	4.94
P4739-04	TP-14	5.03	96.5	7.2	2.5	#1	4.94
P4739-08	BP-G2	5.04	96.5	8.0	3.0	#1	4.94
P4739-12	BP-B2	5.02	96.5	7.6	2.5	#1	4.94
P4739-16	TP-11	5.01	96.5	10.0	4.0	#1	4.94
PB164694TB	LEB694	N/A	N/A	N/A	N/A	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4719 **WorkList ID :** 185149 **Department :** TCLP Extraction **Date :** 11-06-2024 07:55:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-03	WB-307-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L21	11/04/2024	1311
P4719-03	BAYAVE-STOCKPILE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K21	11/05/2024	1311
P4720-05	JC-701-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K31	11/05/2024	1311
P4722-04	WC-1(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4722-09	WC-2(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4722-14	WC-3(0-6)	Solid	TCLP Extraction	Cool 4 deg C	WALS01	L23	11/05/2024	1311
P4732-02	PPE-COMP	Solid	TCLP Extraction	Cool 4 deg C	FURI01	L11	11/06/2024	1311
P4738-02	72-12018	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L23	11/06/2024	1311
P4739-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-08	BP-G2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-12	BP-B2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311
P4739-16	TP-11	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L21	11/06/2024	1311

Date/Time 11/06/24 16:10

Raw Sample Received by:

Raw Sample Relinquished by: SM

Date/Time 11/06/24 18:00

Raw Sample Received by: SM

Raw Sample Relinquished by:

L K J I H G F E D C B A 11

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164850

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/10/2024
Matrix :	Water			**Extraction Start Time :**	09:45
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/10/2024
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	N/A	**Hood ID:**	4,7	**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	5/500 PPM	PP23930
Surrogate	1.0ML	5000 PPB	PP23907
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
Ether	N/A	E3370
Acidified Na2SO4	N/A	EP2503
NAOH 6N	N/A	EP2553
1:3 SULPHURIC ACID	N/A	EP2528
NACL	N/A	M4459
METHANOL	N/A	V14150
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP3529
Hexane	N/A	E3826
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:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze,40ML 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
11/11/24	RP (Ext. Lab)	Post-PCB Lab
9:05	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164850

Analytical Method: M8151A-Herbicide-22

Concentration Date: 11/10/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164694TB	PB164694TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			SEP-01
PB164793TB	PB164793TB	TCLP Herbicide	100	6	RUPESH	ritesh	10			2
PB164850BL	HBLK850	TCLP Herbicide	1000	6	RUPESH	ritesh	10			3
PB164850BS	HLCS850	TCLP Herbicide	1000	6	RUPESH	ritesh	10			4
P4718-03	WB-307-SB02	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		5
P4718-03MS	WB-307-SB02MS	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		6
P4718-03MSD	WB-307-SB02MSD	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		7
P4722-04	WC-1(0-6)	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		8
P4722-09	WC-2(0-6)	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		9
P4722-14	WC-3(0-6)	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		10
P4732-02	PPE-COMP	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		11
P4738-02	72-12018	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		12
P4771-06	P-1	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		13
P4771-08	P-2	TCLP Herbicide	100	6	RUPESH	ritesh	10	A		14

* **Extracts relinquished on the same date as received.**

11/10/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164793

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Pos
P4756-04	BP-B4	01	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-1
P4771-06	P-1	02	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
P4771-08	P-2	03	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4788-04	BP-G3	04	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4789-04	BP-F21	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4792-01	DIESLE-DRUM	06	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4792-06	OILY-STONE-DRUM	07	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4793-02	M00-24-00345	08	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
P4795-02	LAW-23-00189	09	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4798-04	MH-6	10	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
PB164793TB	LEB793	11	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1

11/09/2024
11:30

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB164792

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4722-05	WC-1(0-6)	11	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
P4722-10	WC-2(0-6)	12	100.04	2000	N/A	N/A	N/A	7.0	1.0	T-2
P4722-15	WC-3(0-6)	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
PB164792TB	LEB792	14	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-2

11/04/2024
11:30

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/08/24	11/08/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/08/24	11/08/24	
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP Herbicide	8151A		11/10/24	11/12/24	
P4718-04	**WB-307-SW**	**WATER**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/09/24	11/11/24	

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
11/08/24 08:47	11/08/24 18:08	PB164790

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.83	J	1	0.49	1.28	mg/kg	FC067673.D
Aliphatic C12-C16	Aliphatic C12-C16	17.0		1	0.31	0.85	mg/kg	FC067673.D
Aliphatic C16-C21	Aliphatic C16-C21	0.48	J	1	0.38	1.28	mg/kg	FC067673.D
Aliphatic C21-C28	Aliphatic C21-C28	1.02	U	1	1.02	1.71	mg/kg	FC067673.D
Aliphatic C28-C40	Aliphatic C28-C40	3.53		1	2.30	2.56	mg/kg	FC067673.D
Aromatic C10-C12	Aromatic C10-C12	0.38	U	1	0.38	0.85	mg/kg	FD048676.D
Aromatic C12-C16	Aromatic C12-C16	5.14		1	0.44	1.28	mg/kg	FD048676.D
Aromatic C16-C21	Aromatic C16-C21	1.85	J	1	1.23	2.13	mg/kg	FD048676.D
Aromatic C21-C36	Aromatic C21-C36	2.94	J	1	2.56	3.41	mg/kg	FD048676.D
Total AliphaticEPH	Total AliphaticEPH	21.8			4.50	7.68	mg/kg	
Total AromaticEPH	Total AromaticEPH	9.93			4.61	7.67	mg/kg	
Total EPH	Total EPH	31.8			9.11	15.4	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
FC067673.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.83	J	0.49	1.28	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		17.0		0.31	0.85	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.48	J	0.38	1.28	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.02	U	1.02	1.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		3.53		2.30	2.56	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		35.1		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4718-01	Acq On:	08 Nov 2024 18:08
Client Sample ID:	WB-307-SB01	Operator:	YP/AJ
Data file:	FC067673.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.450	1317742	9.727	300	ug/ml
Aliphatic C12-C16	6.451	9.841	26229341	199.187	200	ug/ml
Aliphatic C16-C21	9.842	13.199	710513	5.584	300	ug/ml
Aliphatic C21-C28	13.200	16.853	635825	5.295	400	ug/ml
Aliphatic C28-C40	16.854	21.698	4180404	41.352	600	ug/ml
Aliphatic EPH	3.171	21.698	33073825	261.145		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3796139	35.15		ug/ml
Aliphatic C9-C28	3.171	16.853	28893421	219.793	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
FD048676.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.38	U	0.38	0.85	mg/kg
Aromatic C12-C16	Aromatic C12-C16	5.14		0.44	1.28	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.85	J	1.23	2.13	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.94	J	2.56	3.41	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	41.5		40 - 140	83%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	33.7		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.4		40 - 140	57%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4718-01	Acq On:	08 Nov 2024 18:08
Client Sample ID:	WB-307-SB01	Operator:	YP/AJ
Data file:	FD048676.D	Misc:	
Instrument:	FID_D	ALS Vial:	59
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.092	5.810	477690	2.711	200	ug/ml
Aromatic C12-C16	5.811	8.415	10679892	60.245	300	ug/ml
Aromatic C16-C21	8.416	12.678	3553615	21.691	500	ug/ml
Aromatic C21-C36	12.679	18.083	5254713	34.409	800	ug/ml
Aromatic EPH	4.092	18.083	19965910	119.056		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	4831009	28.36		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	6306207	41.55		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	3305686	33.67		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	77.6
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
11/08/24 08:47	11/08/24 20:33	PB164790

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.49	U	1	0.49	1.29	mg/kg	FC067677.D
Aliphatic C12-C16	Aliphatic C12-C16	0.64	J	1	0.31	0.86	mg/kg	FC067677.D
Aliphatic C16-C21	Aliphatic C16-C21	0.57	J	1	0.39	1.29	mg/kg	FC067677.D
Aliphatic C21-C28	Aliphatic C21-C28	1.03	U	1	1.03	1.72	mg/kg	FC067677.D
Aliphatic C28-C40	Aliphatic C28-C40	3.42		1	2.32	2.58	mg/kg	FC067677.D
Aromatic C10-C12	Aromatic C10-C12	0.39	U	1	0.39	0.86	mg/kg	FD048680.D
Aromatic C12-C16	Aromatic C12-C16	0.47	J	1	0.44	1.29	mg/kg	FD048680.D
Aromatic C16-C21	Aromatic C16-C21	4.38		1	1.24	2.15	mg/kg	FD048680.D
Aromatic C21-C36	Aromatic C21-C36	2.58	U	1	2.58	3.44	mg/kg	FD048680.D
Total AliphaticEPH	Total AliphaticEPH	4.62	J		4.54	7.74	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.85	J		4.64	7.74	mg/kg	
Total EPH	Total EPH	9.47	J		9.18	15.5	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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	77.6
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
FC067677.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.49	U	0.49	1.29	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.64	J	0.31	0.86	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.57	J	0.39	1.29	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.03	U	1.03	1.72	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		3.42		2.32	2.58	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		29.9		40 - 140	60%	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:	P4718-02	Acq On:	08 Nov 2024 20:33
Client Sample ID:	WB-307-SB02	Operator:	YP/AJ
Data file:	FC067677.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	3.171	6.450	646558	4.773	300	ug/ml
Aliphatic C12-C16	6.451	9.841	973014	7.389	200	ug/ml
Aliphatic C16-C21	9.842	13.199	838042	6.587	300	ug/ml
Aliphatic C21-C28	13.200	16.853	712818	5.936	400	ug/ml
Aliphatic C28-C40	16.854	21.698	4020788	39.773	600	ug/ml
Aliphatic EPH	3.171	21.698	7191220	64.457		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	3231090	29.92		ug/ml
Aliphatic C9-C28	3.171	16.853	3170432	24.685	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	77.6
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
FD048680.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.39	U	0.39	0.86	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.47	J	0.44	1.29	mg/kg
Aromatic C16-C21	Aromatic C16-C21	4.38		1.24	2.15	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.58	U	2.58	3.44	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.7		40 - 140	93%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.9		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.3		40 - 140	55%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4718-02	Acq On:	08 Nov 2024 20:33
Client Sample ID:	WB-307-SB02	Operator:	YP/AJ
Data file:	FD048680.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	4.092	5.810	631885	3.586	200	ug/ml
Aromatic C12-C16	5.811	8.415	970946	5.477	300	ug/ml
Aromatic C16-C21	8.416	12.678	8348133	50.955	500	ug/ml
Aromatic C21-C36	12.679	18.083	3081630	20.179	800	ug/ml
Aromatic EPH	4.092	18.083	13032594	80.198		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	4649411	27.29		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	7093904	46.74		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	4606055	46.91		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/09/24 08:38	11/11/24 17:10	PB164847

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.94	U	1	5.94	30.9	ug/l	FC067697.D
Aliphatic C12-C16	Aliphatic C12-C16	3.72	U	1	3.72	20.6	ug/l	FC067697.D
Aliphatic C16-C21	Aliphatic C16-C21	5.30	U	1	5.30	30.9	ug/l	FC067697.D
Aliphatic C21-C28	Aliphatic C21-C28	9.25	U	1	9.25	41.2	ug/l	FC067697.D
Aliphatic C28-C40	Aliphatic C28-C40	17.5	U	1	17.5	61.9	ug/l	FC067697.D
Aromatic C10-C12	Aromatic C10-C12	5.65	J	1	3.42	20.6	ug/l	FD048701.D
Aromatic C12-C16	Aromatic C12-C16	3.80	U	1	3.80	30.9	ug/l	FD048701.D
Aromatic C16-C21	Aromatic C16-C21	29.1	J	1	13.1	51.5	ug/l	FD048701.D
Aromatic C21-C36	Aromatic C21-C36	37.7	J	1	26.0	82.5	ug/l	FD048701.D
Total AliphaticEPH	Total AliphaticEPH	41.7	U		41.7	186	ug/l	
Total AromaticEPH	Total AromaticEPH	72.5	J		46.3	186	ug/l	
Total EPH	Total EPH	88.0	U		88.0	371	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067697.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.94	U	5.94	30.9	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.72	U	3.72	20.6	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.30	U	5.30	30.9	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		9.25	U	9.25	41.2	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.5	U	17.5	61.9	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		49.8		40 - 140	100%	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:	P4718-04	Acq On:	11 Nov 2024 17:10
Client Sample ID:	WB-307-SW	Operator:	YP/AJ
Data file:	FC067697.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.170	6.450	120461	0.889	300	ug/ml
Aliphatic C12-C16	6.451	9.840	77247	0.587	200	ug/ml
Aliphatic C16-C21	9.841	13.198	96418	0.758	300	ug/ml
Aliphatic C21-C28	13.199	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.695	233456	2.309	600	ug/ml
Aliphatic EPH	3.170	21.695	527582	4.543		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	5378094	49.8		ug/ml
Aliphatic C9-C28	3.170	16.853	294126	2.234	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048701.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.65	J	3.42	20.6	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.80	U	3.80	30.9	ug/l
Aromatic C16-C21	Aromatic C16-C21	29.1	J	13.1	51.5	ug/l
Aromatic C21-C36	Aromatic C21-C36	37.7	J	26.0	82.5	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	60.1		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	61.2		40 - 140	122%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	58.0		40 - 140	116%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4718-04	Acq On:	11 Nov 2024 17:10
Client Sample ID:	WB-307-SW	Operator:	YP/AJ
Data file:	FD048701.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.090	5.808	483118	2.742	200	ug/ml
Aromatic C12-C16	5.809	8.414	268910	1.517	300	ug/ml
Aromatic C16-C21	8.415	12.677	2309075	14.094	500	ug/ml
Aromatic C21-C36	12.678	18.084	2795519	18.306	800	ug/ml
Aromatic EPH	4.090	18.084	5856622	36.659		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	9127435	60.14		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	6008831	61.19		ug/ml
ortho-Terphenyl (SURR)	11.258	11.258	9885211	58.03		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4718 SAS No.: P4718 SDG No.: P4718

Run Number: FC110824AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-307-SB01	70			0
WB-307-SB01MS	71			0
WB-307-SB01MSD	72			0
WB-307-SB02	60			0
PB164790BL	86			0
PB164790BS	76			0
PB164790BSD	80			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.: P4718 SAS No.: P4718 SDG No.: P4718

Run Number: FC111124AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
WB-307-SW	100			0
PB164847BL	92			0
PB164847BS	80			0
PB164847BSD	91			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.: P4718 SAS No.: P4718 SDG No.: P4718

Run Number: FD110824AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-307-SB01	83	67	57	0
WB-307-SB01MS	119	108	68	0
WB-307-SB01MSD	119	108	70	0
WB-307-SB02	93	94	55	0
PB164790BL	92	63	81	0
PB164790BS	90	70	75	0
PB164790BSD	91	71	75	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: P4718 SAS No.: P4718 SDG No.: P4718

Run Number: FD111124AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
WB-307-SW	120	122	116	0
PB164847BL	103	72	92	0
PB164847BS	96	76	81	0
PB164847BSD	94	75	79	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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : P4718-01MS **Datafile:** FC067675.D

Client ID : WB-307-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	12.8	0.83	10.4	75		(40-140)
Aliphatic C12-C16	8.5	17.0	28.9	139		(40-140)
Aliphatic C16-C21	12.8	0.48	14.3	108		(40-140)
Aliphatic C21-C28	17.1	0	18.8	110		(40-140)
Aliphatic C28-C40	25.6	3.53	35.3	124		(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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : P4718-01MSD **Datafile:** FC067676.D

Client ID : WB-307-SB01MSD

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	12.8	0.83	10.3	74		1.21 |	(40-140)	25
Aliphatic C12-C16	8.5	17.0	28.7	137		1.45 |	(40-140)	25
Aliphatic C16-C21	12.8	0.48	14.2	107		0.93 |	(40-140)	25
Aliphatic C21-C28	17.1	0	18.8	110		0 |	(40-140)	25
Aliphatic C28-C40	25.6	3.53	35.3	124		0 |	(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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : P4718-01MS **Datafile:** FD048678.D

Client ID : WB-307-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	8.5	0	7.34	86		(40-140)
Aromatic C12-C16	12.8	5.14	21.2	125		(40-140)
Aromatic C16-C21	21.3	1.85	26.1	113		(40-140)
Aromatic C21-C36	34.1	2.94	41.2	112		(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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : P4718-01MSD **Datafile:** FD048679.D

Client ID : WB-307-SB01MSD

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	8.5	0	7.47	88		1.73 |	(40-140)	25
Aromatic C12-C16	12.8	5.14	17.1	93		28.9 *|	(40-140)	25
Aromatic C16-C21	21.3	1.85	26.6	115		1.75 |	(40-140)	25
Aromatic C21-C36	34.2	2.94	43.0	117		4.37 |	(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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164790BS **Datafile:** FC067671.D

Client ID : PB164790BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.0	5.28	53		(40-140)
Aliphatic C12-C16	6.7	4.52	68		(40-140)
Aliphatic C16-C21	10.0	8.05	80		(40-140)
Aliphatic C21-C28	13.3	11.0	82		(40-140)
Aliphatic C28-C40	20.0	18.9	94		(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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164790BSD **Datafile:** FC067672.D

Client ID : PB164790BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.31	53		0.66|	(40-140)	50
Aliphatic C12-C16	6.7	4.55	68		0.76|	(40-140)	50
Aliphatic C16-C21	10	8.11	81		0.84|	(40-140)	50
Aliphatic C21-C28	13.3	11.1	83		1|	(40-140)	50
Aliphatic C28-C40	20.0	18.9	95		0.09|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164847BS **Datafile:** FC067695.D

Client ID : PB164847BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	164	55		(40-140)
Aliphatic C12-C16	200	143	72		(40-140)
Aliphatic C16-C21	300	256	85		(40-140)
Aliphatic C21-C28	400	360	90		(40-140)
Aliphatic C28-C40	600	602	100		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164847BSD **Datafile:** FC067696.D

Client ID : PB164847BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	179	60		8.7|	(40-140)	50
Aliphatic C12-C16	200	155	78		8.1|	(40-140)	50
Aliphatic C16-C21	300	279	93		8.6|	(40-140)	50
Aliphatic C21-C28	400	395	99		9.3|	(40-140)	50
Aliphatic C28-C40	600	660	110		9.5|	(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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164790BS **Datafile:** FD048674.D

Client ID : PB164790BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	3.28	49		(40-140)
Aromatic C12-C16	10.0	6.04	60		(40-140)
Aromatic C16-C21	16.7	12.7	76		(40-140)
Aromatic C21-C36	26.7	20.3	76		(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:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164790BSD **Datafile:** FD048675.D

Client ID : PB164790BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	3.32	50		1.3|	(40-140)	50
Aromatic C12-C16	10	6.08	61		0.76|	(40-140)	50
Aromatic C16-C21	16.7	12.8	77		0.88|	(40-140)	50
Aromatic C21-C36	26.6	20.5	77		0.98|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164847BS **Datafile:** FD048699.D

Client ID : PB164847BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	106	53		(40-140)
Aromatic C12-C16	300	195	65		(40-140)
Aromatic C16-C21	500	412	82		(40-140)
Aromatic C21-C36	800	669	84		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** P4718 **SAS No :** P4718 **SDG No:** P4718

Sample No : PB164847BSD **Datafile:** FD048700.D

Client ID : PB164847BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	104	52		1.9|	(40-140)	50
Aromatic C12-C16	300	191	64		2.1|	(40-140)	50
Aromatic C16-C21	500	394	79		4.5|	(40-140)	50
Aromatic C21-C36	800	657	82		1.8|	(40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164790BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Instrument ID: FID_C Lab Sample ID: PB164790BL

Matrix: (soil/water) Solid Date Extracted: 11/8/2024 8:47:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
WB-307-SB01	P4718-01
WB-307-SB01MS	P4718-01MS
WB-307-SB02	P4718-02
WB-307-SB01MSD	P4718-01MSD
PB164790BS	PB164790BS
PB164790BSD	PB164790BSD

COMMENTS:

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB164847BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4718 SAS No.: P4718 SDG NO.: P4718

Instrument ID: FID_C Lab Sample ID: PB164847BL

Matrix: (soil/water) Water Date Extracted: 11/9/2024 8:38:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164847BS	PB164847BS
PB164847BSD	PB164847BSD
WB-307-SW	P4718-04

COMMENTS:

Form IV

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:	PB164790BL	SDG No.:	P4718
Lab Sample ID:	PB164790BL	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
11/08/24 08:47	11/08/24 16:19	PB164790

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	FC067670.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067670.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067670.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067670.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067670.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048673.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048673.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048673.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD048673.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:	PB164790BL	SDG No.:	P4718
Lab Sample ID:	PB164790BL	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
FC067670.D	1	11/08/24	11/08/24	PB164790

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)		42.9		40 - 140	86%	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:	PB164790BL	Acq On:	08 Nov 2024 16:19
Client Sample ID:	PB164790BL	Operator:	YP/AJ
Data file:	FC067670.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	3.171	6.450	0	0	300	ug/ml
Aliphatic C12-C16	6.451	9.841	0	0	200	ug/ml
Aliphatic C16-C21	9.842	13.199	0	0	300	ug/ml
Aliphatic C21-C28	13.200	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.698	0	0	600	ug/ml
Aliphatic EPH	3.171	21.698	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.934	12.934	4629394	42.87		ug/ml
Aliphatic C9-C28	3.171	16.853	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:	PB164790BL	SDG No.:	P4718
Lab Sample ID:	PB164790BL	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
FD048673.D	1	11/08/24	11/08/24	PB164790

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)	46.2		40 - 140	92%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	31.6		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.7		40 - 140	81%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164790BL	Acq On:	08 Nov 2024 16:19
Client Sample ID:	PB164790BL	Operator:	YP/AJ
Data file:	FD048673.D	Misc:	
Instrument:	FID_D	ALS Vial:	56
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.092	5.810	0	0	200	ug/ml
Aromatic C12-C16	5.811	8.415	0	0	300	ug/ml
Aromatic C16-C21	8.416	12.678	0	0	500	ug/ml
Aromatic C21-C36	12.679	18.083	0	0	800	ug/ml
Aromatic EPH	4.092	18.083	0	0		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	6932733	40.7		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	7008484	46.18		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	3100787	31.58		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:	PB164847BL	SDG No.:	P4718
Lab Sample ID:	PB164847BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/09/24 08:38	11/11/24 15:19	PB164847

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC067694.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC067694.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC067694.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC067694.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC067694.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048698.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048698.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048698.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048698.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164847BL	SDG No.:	P4718
Lab Sample ID:	PB164847BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067694.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.8		40 - 140	92%	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:	PB164847BL	Acq On:	11 Nov 2024 15:19
Client Sample ID:	PB164847BL	Operator:	YP/AJ
Data file:	FC067694.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	3.170	6.450	0	0	300	ug/ml
Aliphatic C12-C16	6.451	9.840	0	0	200	ug/ml
Aliphatic C16-C21	9.841	13.198	0	0	300	ug/ml
Aliphatic C21-C28	13.199	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.695	0	0	600	ug/ml
Aliphatic EPH	3.170	21.695	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4947942	45.82		ug/ml
Aliphatic C9-C28	3.170	16.853	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:	PB164847BL	SDG No.:	P4718
Lab Sample ID:	PB164847BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048698.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.4		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	36.2		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.2		40 - 140	92%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164847BL	Acq On:	11 Nov 2024 15:19
Client Sample ID:	PB164847BL	Operator:	YP/AJ
Data file:	FD048698.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	4.090	5.808	0	0	200	ug/ml
Aromatic C12-C16	5.809	8.414	0	0	300	ug/ml
Aromatic C16-C21	8.415	12.677	0	0	500	ug/ml
Aromatic C21-C36	12.678	18.084	0	0	800	ug/ml
Aromatic EPH	4.090	18.084	0	0		ug/ml
ortho-Terphenyl (SURR)	11.257	11.257	7862791	46.16		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	7793579	51.35		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	3555602	36.21		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:	PB164790BS	SDG No.:	P4718
Lab Sample ID:	PB164790BS	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
11/08/24 08:47	11/08/24 16:55	PB164790

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.28		1	0.38	1.00	mg/kg	FC067671.D
Aliphatic C12-C16	Aliphatic C12-C16	4.52		1	0.24	0.67	mg/kg	FC067671.D
Aliphatic C16-C21	Aliphatic C16-C21	8.05		1	0.30	1.00	mg/kg	FC067671.D
Aliphatic C21-C28	Aliphatic C21-C28	11.0		1	0.80	1.33	mg/kg	FC067671.D
Aliphatic C28-C40	Aliphatic C28-C40	18.9		1	1.80	2.00	mg/kg	FC067671.D
Aromatic C10-C12	Aromatic C10-C12	3.28		1	0.30	0.67	mg/kg	FD048674.D
Aromatic C12-C16	Aromatic C12-C16	6.04		1	0.34	1.00	mg/kg	FD048674.D
Aromatic C16-C21	Aromatic C16-C21	12.7		1	0.96	1.67	mg/kg	FD048674.D
Aromatic C21-C36	Aromatic C21-C36	20.3		1	2.00	2.67	mg/kg	FD048674.D
Total AliphaticEPH	Total AliphaticEPH	47.8			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	42.3			3.60	6.01	mg/kg	
Total EPH	Total EPH	90.1			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:	PB164790BS	SDG No.:	P4718
Lab Sample ID:	PB164790BS	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
FC067671.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.28		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.52		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.05		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	11.0		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.9		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.1		40 - 140	76%	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:	PB164790BS	Acq On:	08 Nov 2024 16:55
Client Sample ID:	PB164790BS	Operator:	YP/AJ
Data file:	FC067671.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	3.171	6.450	10737228	79.259	300	ug/ml
Aliphatic C12-C16	6.451	9.841	8940399	67.894	200	ug/ml
Aliphatic C16-C21	9.842	13.199	15360217	120.723	300	ug/ml
Aliphatic C21-C28	13.200	16.853	19908909	165.783	400	ug/ml
Aliphatic C28-C40	16.854	21.698	28687316	283.771	600	ug/ml
Aliphatic EPH	3.171	21.698	83634069	717.43		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4113852	38.1		ug/ml
Aliphatic C9-C28	3.171	16.853	54946753	433.659	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:	PB164790BS	SDG No.:	P4718
Lab Sample ID:	PB164790BS	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
FD048674.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.28		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.04		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	12.7		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	20.3		2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	44.8		40 - 140	90%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	34.8		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.5		40 - 140	75%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164790BS	Acq On:	08 Nov 2024 16:55
Client Sample ID:	PB164790BS	Operator:	YP/AJ
Data file:	FD048674.D	Misc:	
Instrument:	FID_D	ALS Vial:	57
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.092	5.810	8675577	49.236	200	ug/ml
Aromatic C12-C16	5.811	8.415	16061219	90.601	300	ug/ml
Aromatic C16-C21	8.416	12.678	31299494	191.046	500	ug/ml
Aromatic C21-C36	12.679	18.083	46599184	305.142	800	ug/ml
Aromatic EPH	4.092	18.083	102635474	636.025		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	6379432	37.45		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	6793337	44.76		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	3413584	34.76		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:	PB164847BS	SDG No.:	P4718
Lab Sample ID:	PB164847BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/09/24 08:38	11/11/24 15:56	PB164847

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	164		1	5.76	30.0	ug/l	FC067695.D
Aliphatic C12-C16	Aliphatic C12-C16	143		1	3.61	20.0	ug/l	FC067695.D
Aliphatic C16-C21	Aliphatic C16-C21	256		1	5.14	30.0	ug/l	FC067695.D
Aliphatic C21-C28	Aliphatic C21-C28	360		1	8.97	40.0	ug/l	FC067695.D
Aliphatic C28-C40	Aliphatic C28-C40	602		1	17.0	60.0	ug/l	FC067695.D
Aromatic C10-C12	Aromatic C10-C12	106		1	3.32	20.0	ug/l	FD048699.D
Aromatic C12-C16	Aromatic C12-C16	195		1	3.69	30.0	ug/l	FD048699.D
Aromatic C16-C21	Aromatic C16-C21	412		1	12.7	50.0	ug/l	FD048699.D
Aromatic C21-C36	Aromatic C21-C36	669		1	25.2	80.0	ug/l	FD048699.D
Total AliphaticEPH	Total AliphaticEPH	1530			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1380			44.9	180	ug/l	
Total EPH	Total EPH	2910			85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164847BS	SDG No.:	P4718
Lab Sample ID:	PB164847BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067695.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	164		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	143		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	256		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	360		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	602		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.2		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164847BS	Acq On:	11 Nov 2024 15:56
Client Sample ID:	PB164847BS	Operator:	YP/AJ
Data file:	FC067695.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	3.170	6.450	11176096	82.499	300	ug/ml
Aliphatic C12-C16	6.451	9.840	9420957	71.543	200	ug/ml
Aliphatic C16-C21	9.841	13.198	16310482	128.192	300	ug/ml
Aliphatic C21-C28	13.199	16.853	21643985	180.231	400	ug/ml
Aliphatic C28-C40	16.854	21.695	30449487	301.202	600	ug/ml
Aliphatic EPH	3.170	21.695	89001007	763.667		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4338861	40.18		ug/ml
Aliphatic C9-C28	3.170	16.853	58551520	462.465	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:	PB164847BS	SDG No.:	P4718
Lab Sample ID:	PB164847BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048699.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	106		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	195		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	412		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	669		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.2		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	38.1		40 - 140	76%	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:	PB164847BS	Acq On:	11 Nov 2024 15:56
Client Sample ID:	PB164847BS	Operator:	YP/AJ
Data file:	FD048699.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	4.090	5.808	9365851	53.154	200	ug/ml
Aromatic C12-C16	5.809	8.414	17287027	97.516	300	ug/ml
Aromatic C16-C21	8.415	12.677	33820727	206.435	500	ug/ml
Aromatic C21-C36	12.678	18.084	51100831	334.62	800	ug/ml
Aromatic EPH	4.090	18.084	111574436	691.724		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	3737514	38.06		ug/ml
ortho-Terphenyl (SURR)	11.256	11.256	6906333	40.54		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	7311826	48.17		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:	PB164790BSD	SDG No.:	P4718
Lab Sample ID:	PB164790BSD	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
11/08/24 08:47	11/08/24 17:32	PB164790

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.31		1	0.38	1.00	mg/kg	FC067672.D
Aliphatic C12-C16	Aliphatic C12-C16	4.55		1	0.24	0.67	mg/kg	FC067672.D
Aliphatic C16-C21	Aliphatic C16-C21	8.11		1	0.30	1.00	mg/kg	FC067672.D
Aliphatic C21-C28	Aliphatic C21-C28	11.1		1	0.80	1.33	mg/kg	FC067672.D
Aliphatic C28-C40	Aliphatic C28-C40	18.9		1	1.80	2.00	mg/kg	FC067672.D
Aromatic C10-C12	Aromatic C10-C12	3.32		1	0.30	0.67	mg/kg	FD048675.D
Aromatic C12-C16	Aromatic C12-C16	6.08		1	0.34	1.00	mg/kg	FD048675.D
Aromatic C16-C21	Aromatic C16-C21	12.8		1	0.96	1.67	mg/kg	FD048675.D
Aromatic C21-C36	Aromatic C21-C36	20.5		1	2.00	2.66	mg/kg	FD048675.D
Total AliphaticEPH	Total AliphaticEPH	48.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	42.7			3.60	6.00	mg/kg	
Total EPH	Total EPH	90.7			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:	PB164790BSD	SDG No.:	P4718
Lab Sample ID:	PB164790BSD	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
FC067672.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.31		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.55		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.11		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	11.1		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.9		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.0		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164790BSD	Acq On:	08 Nov 2024 17:32
Client Sample ID:	PB164790BSD	Operator:	YP/AJ
Data file:	FC067672.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	3.171	6.450	10804603	79.757	300	ug/ml
Aliphatic C12-C16	6.451	9.841	8996124	68.317	200	ug/ml
Aliphatic C16-C21	9.842	13.199	15492501	121.763	300	ug/ml
Aliphatic C21-C28	13.200	16.853	20066511	167.095	400	ug/ml
Aliphatic C28-C40	16.854	21.698	28748582	284.377	600	ug/ml
Aliphatic EPH	3.171	21.698	84108321	721.309		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4324971	40.05		ug/ml
Aliphatic C9-C28	3.171	16.853	55359739	436.932	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:	PB164790BSD	SDG No.:	P4718
Lab Sample ID:	PB164790BSD	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
FD048675.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.08		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	12.8		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	20.5		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.3		40 - 140	91%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.6		40 - 140	75%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164790BSD	Acq On:	08 Nov 2024 17:32
Client Sample ID:	PB164790BSD	Operator:	YP/AJ
Data file:	FD048675.D	Misc:	
Instrument:	FID_D	ALS Vial:	58
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.092	5.810	8774301	49.797	200	ug/ml
Aromatic C12-C16	5.811	8.415	16174778	91.242	300	ug/ml
Aromatic C16-C21	8.416	12.678	31495336	192.241	500	ug/ml
Aromatic C21-C36	12.679	18.083	47020005	307.898	800	ug/ml
Aromatic EPH	4.092	18.083	103464420	641.177		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	6405825	37.61		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	6877746	45.31		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	3464981	35.29		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:	PB164847BSD	SDG No.:	P4718
Lab Sample ID:	PB164847BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
11/09/24 08:38	11/11/24 16:33	PB164847

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	179		1	5.76	30.0	ug/l	FC067696.D
Aliphatic C12-C16	Aliphatic C12-C16	155		1	3.61	20.0	ug/l	FC067696.D
Aliphatic C16-C21	Aliphatic C16-C21	279		1	5.14	30.0	ug/l	FC067696.D
Aliphatic C21-C28	Aliphatic C21-C28	395		1	8.97	40.0	ug/l	FC067696.D
Aliphatic C28-C40	Aliphatic C28-C40	660		1	17.0	60.0	ug/l	FC067696.D
Aromatic C10-C12	Aromatic C10-C12	104		1	3.32	20.0	ug/l	FD048700.D
Aromatic C12-C16	Aromatic C12-C16	191		1	3.69	30.0	ug/l	FD048700.D
Aromatic C16-C21	Aromatic C16-C21	394		1	12.7	50.0	ug/l	FD048700.D
Aromatic C21-C36	Aromatic C21-C36	657		1	25.2	80.0	ug/l	FD048700.D
Total AliphaticEPH	Total AliphaticEPH	1670			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1350			44.9	180	ug/l	
Total EPH	Total EPH	3010			85.4	360	ug/l	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164847BSD	SDG No.:	P4718
Lab Sample ID:	PB164847BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067696.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	179		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	155		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	279		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	395		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	660		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.7		40 - 140	91%	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:	PB164847BSD	Acq On:	11 Nov 2024 16:33
Client Sample ID:	PB164847BSD	Operator:	YP/AJ
Data file:	FC067696.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	3.170	6.450	12153536	89.714	300	ug/ml
Aliphatic C12-C16	6.451	9.840	10228578	77.677	200	ug/ml
Aliphatic C16-C21	9.841	13.198	17798092	139.884	300	ug/ml
Aliphatic C21-C28	13.199	16.853	23724061	197.552	400	ug/ml
Aliphatic C28-C40	16.854	21.695	33396175	330.35	600	ug/ml
Aliphatic EPH	3.170	21.695	97300442	835.176		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4938817	45.73		ug/ml
Aliphatic C9-C28	3.170	16.853	63904267	504.827	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:	PB164847BSD		SDG No.:	P4718	
Lab Sample ID:	PB164847BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048700.D	1	11/09/24	11/11/24	PB164847

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	104		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	191		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	394		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	657		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.2		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	37.3		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.5		40 - 140	79%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164847BSD	Acq On:	11 Nov 2024 16:33
Client Sample ID:	PB164847BSD	Operator:	YP/AJ
Data file:	FD048700.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.090	5.808	9225507	52.357	200	ug/ml
Aromatic C12-C16	5.809	8.414	16957343	95.656	300	ug/ml
Aromatic C16-C21	8.415	12.677	32299299	197.148	500	ug/ml
Aromatic C21-C36	12.678	18.084	50218843	328.844	800	ug/ml
Aromatic EPH	4.090	18.084	108700992	674.006		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	7162920	47.19		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	3663603	37.31		ug/ml
ortho-Terphenyl (SURR)	11.256	11.256	6726567	39.49		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-307-SB01MS	SDG No.:	P4718
Lab Sample ID:	P4718-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
11/08/24 08:47	11/08/24 19:21	PB164790

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	10.4		1	0.49	1.28	mg/kg	FC067675.D
Aliphatic C12-C16	Aliphatic C12-C16	28.9	E	1	0.31	0.85	mg/kg	FC067675.D
Aliphatic C16-C21	Aliphatic C16-C21	14.3		1	0.38	1.28	mg/kg	FC067675.D
Aliphatic C21-C28	Aliphatic C21-C28	18.8		1	1.02	1.71	mg/kg	FC067675.D
Aliphatic C28-C40	Aliphatic C28-C40	35.3		1	2.30	2.56	mg/kg	FC067675.D
Aromatic C10-C12	Aromatic C10-C12	7.34		1	0.38	0.85	mg/kg	FD048678.D
Aromatic C12-C16	Aromatic C12-C16	21.2		1	0.44	1.28	mg/kg	FD048678.D
Aromatic C16-C21	Aromatic C16-C21	26.1		1	1.23	2.13	mg/kg	FD048678.D
Aromatic C21-C36	Aromatic C21-C36	41.2		1	2.56	3.41	mg/kg	FD048678.D
Total AliphaticEPH	Total AliphaticEPH	108			4.50	7.68	mg/kg	
Total AromaticEPH	Total AromaticEPH	95.8			4.61	7.67	mg/kg	
Total EPH	Total EPH	204			9.11	15.4	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-307-SB01MS	SDG No.:	P4718
Lab Sample ID:	P4718-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
FC067675.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		10.4		0.49	1.28	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		28.9	E	0.31	0.85	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.3		0.38	1.28	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		18.8		1.02	1.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		35.3		2.30	2.56	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4718-01MS	Acq On:	08 Nov 2024 19:21
Client Sample ID:	WB-307-SB01MS	Operator:	YP/AJ
Data file:	FC067675.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.450	16449699	121.427	300	ug/ml
Aliphatic C12-C16	6.451	9.841	44529266	338.158	200	ug/ml
Aliphatic C16-C21	9.842	13.199	21266139	167.141	300	ug/ml
Aliphatic C21-C28	13.200	16.853	26477947	220.483	400	ug/ml
Aliphatic C28-C40	16.854	21.698	41766596	413.149	600	ug/ml
Aliphatic EPH	3.171	21.698	150489647	1260		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3816372	35.34		ug/ml
Aliphatic C9-C28	3.171	16.853	108723051	847.209	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-307-SB01MS	SDG No.:	P4718
Lab Sample ID:	P4718-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
FD048678.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	7.34		0.38	0.85	mg/kg
Aromatic C12-C16	Aromatic C12-C16	21.2		0.44	1.28	mg/kg
Aromatic C16-C21	Aromatic C16-C21	26.1		1.23	2.13	mg/kg
Aromatic C21-C36	Aromatic C21-C36	41.2		2.56	3.41	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.5		40 - 140	119%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.8		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.1		40 - 140	68%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4718-01MS	Acq On:	08 Nov 2024 19:21
Client Sample ID:	WB-307-SB01MS	Operator:	YP/AJ
Data file:	FD048678.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	4.092	5.810	15149183	85.976	200	ug/ml
Aromatic C12-C16	5.811	8.415	44049972	248.486	300	ug/ml
Aromatic C16-C21	8.416	12.678	50121550	305.932	500	ug/ml
Aromatic C21-C36	12.679	18.083	73741714	482.877	800	ug/ml
Aromatic EPH	4.092	18.083	183062419	1120		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	5816816	34.15		ug/ml
2-Bromonaphthalene (SURR)	7.370	7.370	9027188	59.48		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	5282948	53.8		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-307-SB01MSD	SDG No.:	P4718
Lab Sample ID:	P4718-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
11/08/24 08:47	11/08/24 19:57	PB164790

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	10.3		1	0.49	1.28	mg/kg	FC067676.D
Aliphatic C12-C16	Aliphatic C12-C16	28.7	E	1	0.31	0.85	mg/kg	FC067676.D
Aliphatic C16-C21	Aliphatic C16-C21	14.2		1	0.38	1.28	mg/kg	FC067676.D
Aliphatic C21-C28	Aliphatic C21-C28	18.8		1	1.02	1.71	mg/kg	FC067676.D
Aliphatic C28-C40	Aliphatic C28-C40	35.3		1	2.31	2.56	mg/kg	FC067676.D
Aromatic C10-C12	Aromatic C10-C12	7.47		1	0.38	0.85	mg/kg	FD048679.D
Aromatic C12-C16	Aromatic C12-C16	17.1		1	0.44	1.28	mg/kg	FD048679.D
Aromatic C16-C21	Aromatic C16-C21	26.6		1	1.23	2.13	mg/kg	FD048679.D
Aromatic C21-C36	Aromatic C21-C36	43.0		1	2.56	3.42	mg/kg	FD048679.D
Total AliphaticEPH	Total AliphaticEPH	107			4.51	7.68	mg/kg	
Total AromaticEPH	Total AromaticEPH	94.2			4.61	7.68	mg/kg	
Total EPH	Total EPH	201			9.12	15.4	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-307-SB01MSD	SDG No.:	P4718
Lab Sample ID:	P4718-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
FC067676.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		10.3		0.49	1.28	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		28.7	E	0.31	0.85	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.2		0.38	1.28	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		18.8		1.02	1.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		35.3		2.31	2.56	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		36.2		40 - 140	72%	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:	P4718-01MSD	Acq On:	08 Nov 2024 19:57
Client Sample ID:	WB-307-SB01MSD	Operator:	YP/AJ
Data file:	FC067676.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.450	16310574	120.4	300	ug/ml
Aliphatic C12-C16	6.451	9.841	44318307	336.556	200	ug/ml
Aliphatic C16-C21	9.842	13.199	21203932	166.652	300	ug/ml
Aliphatic C21-C28	13.200	16.853	26474392	220.454	400	ug/ml
Aliphatic C28-C40	16.854	21.698	41781599	413.298	600	ug/ml
Aliphatic EPH	3.171	21.698	150088804	1260		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3908382	36.19		ug/ml
Aliphatic C9-C28	3.171	16.853	108307205	844.062	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-307-SB01MSD	SDG No.:	P4718
Lab Sample ID:	P4718-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
FD048679.D	1	11/08/24	11/08/24	PB164790

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	7.47		0.38	0.85	mg/kg
Aromatic C12-C16	Aromatic C12-C16	17.1		0.44	1.28	mg/kg
Aromatic C16-C21	Aromatic C16-C21	26.6		1.23	2.13	mg/kg
Aromatic C21-C36	Aromatic C21-C36	43.0		2.56	3.42	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.3		40 - 140	119%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.1		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4718-01MSD	Acq On:	08 Nov 2024 19:57
Client Sample ID:	WB-307-SB01MSD	Operator:	YP/AJ
Data file:	FD048679.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	4.092	5.810	15414686	87.483	200	ug/ml
Aromatic C12-C16	5.811	8.415	35557900	200.582	300	ug/ml
Aromatic C16-C21	8.416	12.678	51037520	311.522	500	ug/ml
Aromatic C21-C36	12.679	18.083	76903750	503.583	800	ug/ml
Aromatic EPH	4.092	18.083	178913856	1100		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	5919615	34.75		ug/ml
2-Bromonaphthalene (SURR)	7.371	7.371	9006133	59.34		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	5315948	54.14		ug/ml

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Inital Calibration Report for SequenceID : FC102324AL

AreaCount

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	39022992.000	19933185.000	8061570.000	4198329.000	2101198.000	
Aliphatic C12-C16	25467967.000	12990634.000	5208245.000	2702045.000	1358541.000	
Aliphatic C16-C21	36713606.000	18782701.000	7526010.000	3934678.000	1979840.000	
Aliphatic C21-C28	45946180.000	23609090.000	9458827.000	4951672.000	2510279.000	
Aliphatic C28-C40	56250650.000	29316600.000	11954663.000	6283522.000	3289360.000	
Aliphatic EPH	203401395.000	104632210.000	42209315.000	22070246.000	11239218.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	135469.6413332	3.265				
Aliphatic C12-C16	131681.73	2.772				
Aliphatic C16-C21	127235.0919996	3.261				
Aliphatic C21-C28	120090.3975	3.678				
Aliphatic C28-C40	101093.1949996	6.133				
Aliphatic EPH	118799.912222	4.081				

Concentration

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.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	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	130076.640000	132887.900000	134359.500000	139944.300000	140079.866666	
Aliphatic C12-C16	127339.835000	129906.340000	130206.125000	135102.250000	135854.100000	
Aliphatic C16-C21	122378.686666	125218.006666	125433.500000	131155.933333	131989.333333	

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Inital Calibration Report for SequenceID : FC102324AL

Aliphatic C21-C28	114865.450000	118045.450000	118235.337500	123791.800000	125513.950000	
Aliphatic C28-C40	93751.083333	97722.000000	99622.191666	104725.366666	109645.333333	
Aliphatic EPH	113000.775000	116258.011111	117248.097222	122612.477777	124880.200000	

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Inital Calibration Report for SequenceID : FD102324AR

AreaCount

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	34560081.000	17413124.000	7062069.000	3602660.000	1773971.000	
Aromatic C12-C16	51756513.000	26214353.000	10660566.000	5474983.000	2683618.000	
Aromatic C16-C21	64464447.000	32614919.000	13171585.000	6675037.000	3268126.000	
Aromatic C21-C36	134161995.000	67904676.000	27627174.000	14154223.000	6877987.000	
Aromatic EPH	284943036.000	144147072.000	58521394.000	29906903.000	14603702.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	176202.694	1.627				
Aromatic C12-C16	177273.4926664	2.167				
Aromatic C16-C21	163832.55	1.288				
Aromatic C21-C36	152713.1526664	2.017				
Aromatic EPH	161887.4688884	1.816				

Concentration

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.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	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	172800.405000	174131.240000	176551.725000	180133.000000	177397.100000	
Aromatic C12-C16	172521.710000	174762.353333	177676.100000	182499.433333	178907.866666	
Aromatic C16-C21	161161.117500	163074.595000	164644.812500	166875.925000	163406.300000	
Aromatic C21-C36	149068.883333	150899.280000	153484.300000	157269.144444	152844.155555	
Aromatic EPH	158301.686666	160163.413333	162559.427777	166149.461111	162263.355555	

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Continuing Calibration Report for SequenceID : FC110824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067669.D**						
Aliphatic C9-C12	7432259.000	60.000	3.171	6.450	123870.983	135469.641	8.562
Aliphatic C12-C16	4908621.000	40.000	6.451	9.841	122715.525	131681.730	6.809
Aliphatic C16-C21	7119944.000	60.000	9.842	13.199	118665.733	127235.092	6.735
Aliphatic C21-C28	9135773.000	80.000	13.200	16.853	114197.163	120090.398	4.907
Aliphatic C28-C40	12707285.000	120.000	16.854	21.698	105894.042	101093.195	-4.749
Aliphatic EPH	41303882.000	360.000	3.171	21.698	114733.006	118799.912	3.423

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	08 Nov 2024 13:17
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067669.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.450	7432259.000	60.000	ug/ml
Aliphatic C12-C16	6.451	9.841	4908621.000	40.000	ug/ml
Aliphatic C16-C21	9.842	13.199	7119944.000	60.000	ug/ml
Aliphatic C21-C28	13.200	16.853	9135773.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.698	12707285.000	120.000	ug/ml
Aliphatic EPH	3.171	21.698	41303882.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC110824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067683.D**						
Aliphatic C9-C12	7306679.000	60.000	3.171	6.450	121777.983	135469.641	10.107
Aliphatic C12-C16	4818056.000	40.000	6.451	9.841	120451.400	131681.730	8.528
Aliphatic C16-C21	7034927.000	60.000	9.842	13.199	117248.783	127235.092	7.849
Aliphatic C21-C28	9100518.000	80.000	13.200	16.853	113756.475	120090.398	5.274
Aliphatic C28-C40	12781161.000	120.000	16.854	21.698	106509.675	101093.195	-5.358
Aliphatic EPH	41041341.000	360.000	3.171	21.698	114003.725	118799.912	4.037

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	09 Nov 2024 00:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067683.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.450	7306679.000	60.000	ug/ml
Aliphatic C12-C16	6.451	9.841	4818056.000	40.000	ug/ml
Aliphatic C16-C21	9.842	13.199	7034927.000	60.000	ug/ml
Aliphatic C21-C28	13.200	16.853	9100518.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.698	12781161.000	120.000	ug/ml
Aliphatic EPH	3.171	21.698	41041341.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FC111124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067693.D**						
Aliphatic C9-C12	8271307.000	60.000	3.170	6.450	137855.117	135469.641	-1.761
Aliphatic C12-C16	5396973.000	40.000	6.451	9.840	134924.325	131681.730	-2.462
Aliphatic C16-C21	7819384.000	60.000	9.841	13.198	130323.067	127235.092	-2.427
Aliphatic C21-C28	9814622.000	80.000	13.199	16.853	122682.775	120090.398	-2.159
Aliphatic C28-C40	12463555.000	120.000	16.854	21.695	103862.958	101093.195	-2.740
Aliphatic EPH	43765841.000	360.000	3.170	21.695	121571.781	118799.912	-2.333

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:	11 Nov 2024 14:05
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067693.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.170	6.450	8271307.000	60.000	ug/ml
Aliphatic C12-C16	6.451	9.840	5396973.000	40.000	ug/ml
Aliphatic C16-C21	9.841	13.198	7819384.000	60.000	ug/ml
Aliphatic C21-C28	13.199	16.853	9814622.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	12463555.000	120.000	ug/ml
Aliphatic EPH	3.170	21.695	43765841.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC111124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067701.D**						
Aliphatic C9-C12	8328348.000	60.000	3.170	6.450	138805.800	135469.641	-2.463
Aliphatic C12-C16	5483001.000	40.000	6.451	9.840	137075.025	131681.730	-4.096
Aliphatic C16-C21	7943258.000	60.000	9.841	13.198	132387.633	127235.092	-4.050
Aliphatic C21-C28	10046123.000	80.000	13.199	16.853	125576.538	120090.398	-4.568
Aliphatic C28-C40	13170565.000	120.000	16.854	21.695	109754.708	101093.195	-8.568
Aliphatic EPH	44971295.000	360.000	3.170	21.695	124920.264	118799.912	-5.152

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	12 Nov 2024 01:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067701.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.170	6.450	8328348.000	60.000	ug/ml
Aliphatic C12-C16	6.451	9.840	5483001.000	40.000	ug/ml
Aliphatic C16-C21	9.841	13.198	7943258.000	60.000	ug/ml
Aliphatic C21-C28	13.199	16.853	10046123.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.695	13170565.000	120.000	ug/ml
Aliphatic EPH	3.170	21.695	44971295.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD110824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048672.D**						
Aromatic C10-C12	7919867.000	40.000	4.092	5.810	197996.675	176202.694	-12.369
Aromatic C12-C16	11889358.000	60.000	5.811	8.415	198155.967	177273.493	-11.780
Aromatic C16-C21	13817573.000	80.000	8.416	12.678	172719.663	163832.550	-5.425
Aromatic C21-C36	31272382.000	180.000	12.679	18.083	173735.456	152713.153	-13.766
Aromatic EPH	64899180.000	360.000	4.092	18.083	180275.500	161887.469	-11.359

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	08 Nov 2024 13:17
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048672.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.092	5.810	7919867.000	40.000	ug/ml
Aromatic C12-C16	5.811	8.415	11889358.000	60.000	ug/ml
Aromatic C16-C21	8.416	12.678	13817573.000	80.000	ug/ml
Aromatic C21-C36	12.679	18.083	31272382.000	180.000	ug/ml
Aromatic EPH	4.092	18.083	64899180.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD110824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048686.D**						
Aromatic C10-C12	7558477.000	40.000	4.092	5.810	188961.925	176202.694	-7.241
Aromatic C12-C16	11312555.000	60.000	5.811	8.415	188542.583	177273.493	-6.357
Aromatic C16-C21	13328267.000	80.000	8.416	12.678	166603.338	163832.550	-1.691
Aromatic C21-C36	30539691.000	180.000	12.679	18.083	169664.950	152713.153	-11.100
Aromatic EPH	62738990.000	360.000	4.092	18.083	174274.972	161887.469	-7.652

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	09 Nov 2024 00:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048686.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.092	5.810	7558477.000	40.000	ug/ml
Aromatic C12-C16	5.811	8.415	11312555.000	60.000	ug/ml
Aromatic C16-C21	8.416	12.678	13328267.000	80.000	ug/ml
Aromatic C21-C36	12.679	18.083	30539691.000	180.000	ug/ml
Aromatic EPH	4.092	18.083	62738990.000	360.000	ug/ml

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD111124AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048697.D**						
Aromatic C10-C12	7290867.000	40.000	4.090	5.808	182271.675	176202.694	-3.444
Aromatic C12-C16	10907854.000	60.000	5.809	8.414	181797.567	177273.493	-2.552
Aromatic C16-C21	13147714.000	80.000	8.415	12.677	164346.425	163832.550	-0.314
Aromatic C21-C36	28755761.000	180.000	12.678	18.084	159754.228	152713.153	-4.611
Aromatic EPH	60102196.000	360.000	4.090	18.084	166950.544	161887.469	-3.128

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	11 Nov 2024 14:42
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048697.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.090	5.808	7290867.000	40.000	ug/ml
Aromatic C12-C16	5.809	8.414	10907854.000	60.000	ug/ml
Aromatic C16-C21	8.415	12.677	13147714.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.084	28755761.000	180.000	ug/ml
Aromatic EPH	4.090	18.084	60102196.000	360.000	ug/ml

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

Continuing Calibration Report for SequenceID : FD111124AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048705.D**						
Aromatic C10-C12	7212813.000	40.000	4.090	5.808	180320.325	176202.694	-2.337
Aromatic C12-C16	10865815.000	60.000	5.809	8.414	181096.917	177273.493	-2.157
Aromatic C16-C21	13319448.000	80.000	8.415	12.677	166493.100	163832.550	-1.624
Aromatic C21-C36	29488863.000	180.000	12.678	18.084	163827.017	152713.153	-7.278
Aromatic EPH	60886939.000	360.000	4.090	18.084	169130.386	161887.469	-4.474

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:	12 Nov 2024 01:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048705.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.090	5.808	7212813.000	40.000	ug/ml
Aromatic C12-C16	5.809	8.414	10865815.000	60.000	ug/ml
Aromatic C16-C21	8.415	12.677	13319448.000	80.000	ug/ml
Aromatic C21-C36	12.678	18.084	29488863.000	180.000	ug/ml
Aromatic EPH	4.090	18.084	60886939.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067673.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 18:08
Operator : YP/AJ
Sample : P4718-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB01

Integration File: autoint1.e
Quant Time: Nov 09 01:37:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.931	3796139	35.153 ug/ml
Spiked Amount 50.000		Recovery = 70.31%	
Target Compounds			

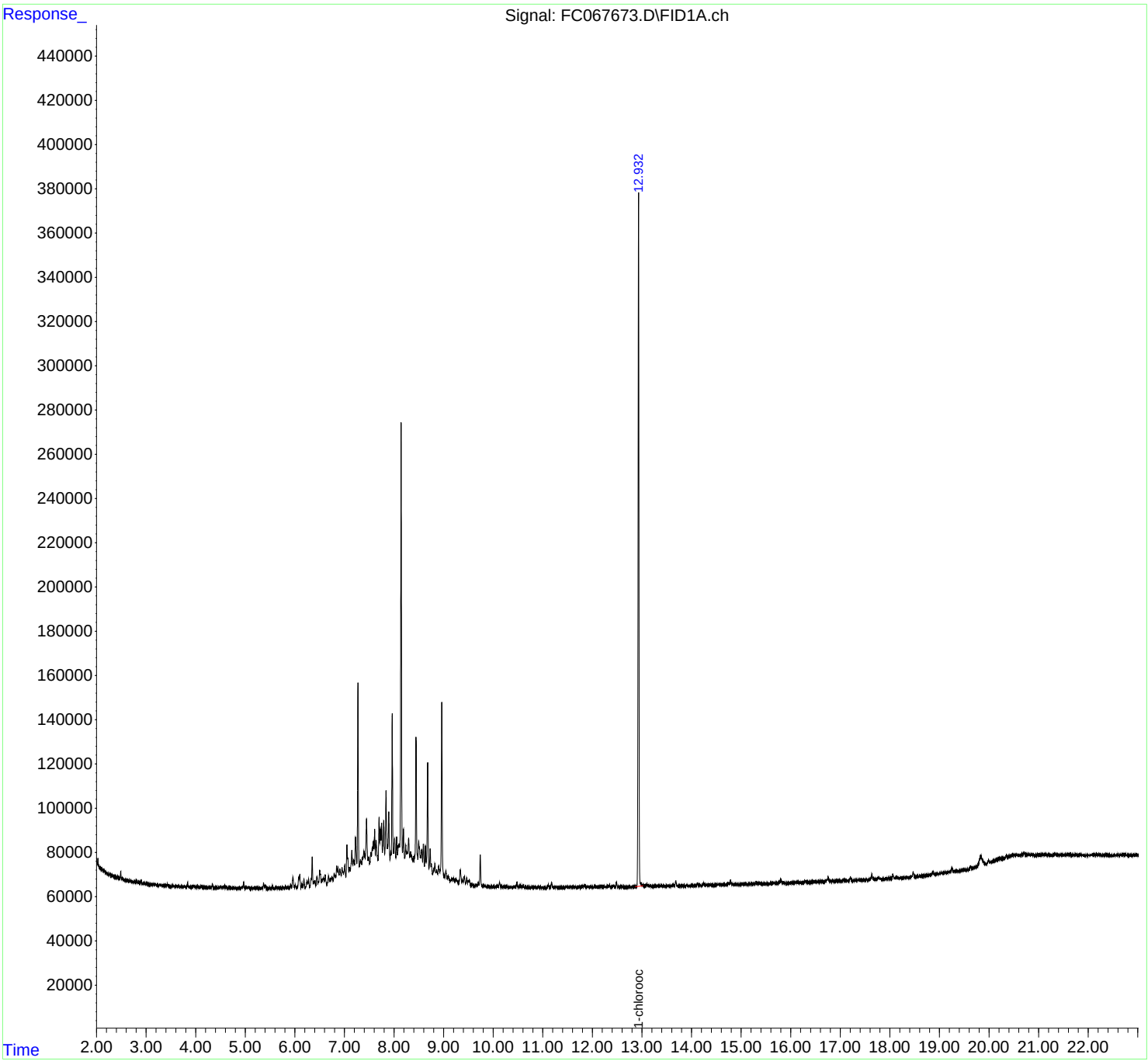
(f)=RT Delta > 1/2 Window (m)=manual int.

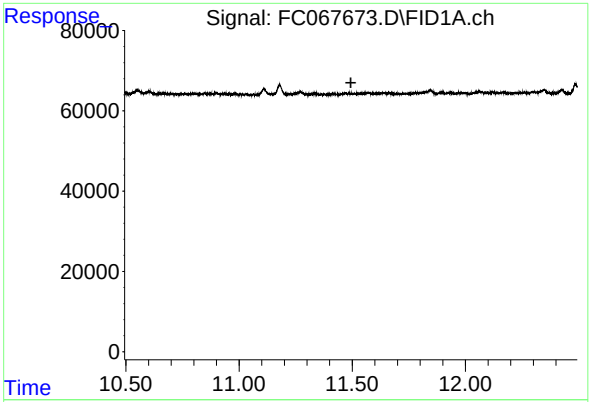
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067673.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 18:08
Operator : YP/AJ
Sample : P4718-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB01

Integration File: autoint1.e
Quant Time: Nov 09 01:37:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

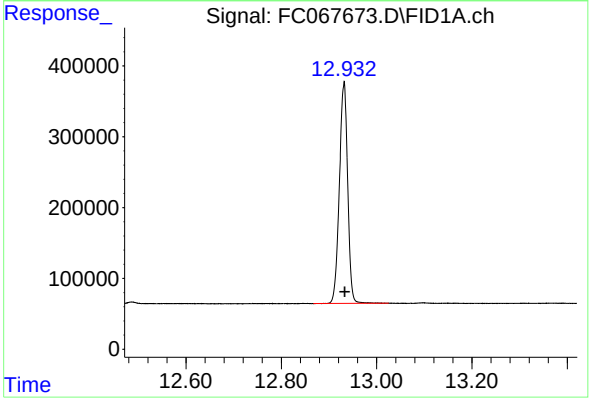




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-307-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 12.931 min
Delta R.T.: -0.002 min
Response: 3796139
Conc: 35.15 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067673.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 18:08
Sample : P4718-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.272	3.221	3.326	BV	538	6890	0.18%	0.019%
2	3.354	3.326	3.408	PV	111	3100	0.08%	0.008%
3	3.425	3.408	3.514	PV	869	8819	0.23%	0.024%
4	3.536	3.514	3.561	VV	237	3375	0.09%	0.009%
5	3.594	3.561	3.624	VV	299	6461	0.17%	0.017%
6	3.641	3.624	3.651	VV	324	2801	0.07%	0.008%
7	3.662	3.651	3.748	VV	423	6644	0.17%	0.018%
8	3.761	3.748	3.801	VV	427	5729	0.15%	0.015%
9	3.837	3.801	3.896	PV	1760	20841	0.54%	0.056%
10	3.937	3.896	3.951	PV	737	8948	0.23%	0.024%
11	3.965	3.951	4.011	VV	1033	11962	0.31%	0.032%
12	4.032	4.011	4.058	VV	377	5102	0.13%	0.014%
13	4.110	4.058	4.129	VV	743	14032	0.36%	0.038%
14	4.139	4.129	4.209	VV	302	7867	0.20%	0.021%
15	4.250	4.209	4.261	PV	243	3208	0.08%	0.009%
16	4.269	4.261	4.277	VV	186	1315	0.03%	0.004%
17	4.302	4.277	4.317	VV	257	3986	0.10%	0.011%
18	4.336	4.317	4.386	VV	1923	21753	0.57%	0.059%
19	4.402	4.386	4.427	VV	259	4192	0.11%	0.011%
20	4.446	4.427	4.477	VV	237	4704	0.12%	0.013%
21	4.503	4.477	4.520	VV	865	10855	0.28%	0.029%
22	4.534	4.520	4.545	VV	461	4871	0.13%	0.013%
23	4.559	4.545	4.573	VV	830	8642	0.22%	0.023%
24	4.589	4.573	4.606	VV	1347	13142	0.34%	0.035%
25	4.618	4.606	4.632	VV	331	3478	0.09%	0.009%

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26	4.644	4.632	4.683	VV	189	4749	0.12%	0.013%
27	4.706	4.683	4.733	VV	292	5854	0.15%	0.016%
28	4.747	4.733	4.778	VV	172	3289	0.09%	0.009%
29	4.786	4.778	4.798	VV	160	1673	0.04%	0.005%
30	4.806	4.798	4.841	VV	210	2782	0.07%	0.008%
31	4.891	4.841	4.908	PV	276	5610	0.15%	0.015%
32	4.967	4.908	4.995	VV	3003	43363	1.13%	0.117%
33	5.021	4.995	5.060	VV	851	14822	0.39%	0.040%
34	5.074	5.060	5.110	VV	499	6710	0.17%	0.018%
35	5.139	5.110	5.147	PV	183	2273	0.06%	0.006%
36	5.164	5.147	5.184	VV	301	4868	0.13%	0.013%
37	5.191	5.184	5.247	VV	280	7539	0.20%	0.020%
38	5.259	5.247	5.304	VV	240	5990	0.16%	0.016%
39	5.314	5.304	5.347	VV	197	3513	0.09%	0.009%
40	5.369	5.347	5.451	VV	2565	52029	1.35%	0.140%
41	5.467	5.451	5.483	VV	272	3051	0.08%	0.008%
42	5.550	5.483	5.576	VV	1568	21378	0.56%	0.058%
43	5.626	5.576	5.641	VV	325	6416	0.17%	0.017%
44	5.662	5.641	5.692	VV	482	9247	0.24%	0.025%
45	5.716	5.692	5.729	VV	344	5128	0.13%	0.014%
46	5.759	5.729	5.791	VV	789	12328	0.32%	0.033%
47	5.810	5.791	5.841	VV	775	10734	0.28%	0.029%
48	5.859	5.841	5.886	VV	770	10652	0.28%	0.029%
49	5.915	5.886	5.937	VV	1361	23214	0.60%	0.063%
50	5.961	5.937	5.992	VV	5110	86258	2.24%	0.233%
51	6.009	5.992	6.054	VV	1668	27706	0.72%	0.075%
52	6.100	6.054	6.123	VV	6589	142416	3.70%	0.385%
53	6.141	6.123	6.161	VV	2375	31296	0.81%	0.084%
54	6.184	6.161	6.211	VV	4309	55145	1.43%	0.149%
55	6.245	6.211	6.262	VV	3256	60105	1.56%	0.162%
56	6.278	6.262	6.300	VV	4314	57311	1.49%	0.155%
57	6.350	6.300	6.371	VV	14299	219235	5.70%	0.592%
58	6.384	6.371	6.395	VV	3125	39497	1.03%	0.107%
59	6.407	6.395	6.422	VV	3664	42485	1.10%	0.115%
60	6.446	6.422	6.466	VV	5227	96359	2.51%	0.260%
61	6.502	6.466	6.535	VV	8204	201477	5.24%	0.544%
62	6.575	6.535	6.594	VV	4701	135950	3.53%	0.367%
63	6.612	6.594	6.644	VV	6181	117592	3.06%	0.317%
64	6.680	6.644	6.696	VV	5777	116500	3.03%	0.315%
65	6.750	6.722	6.773	VV	4537	129291	3.36%	0.349%
66	6.793	6.773	6.826	VV	6792	172300	4.48%	0.465%
67	6.845	6.826	6.859	VV	10184	156244	4.06%	0.422%
68	6.871	6.859	6.890	VV	8969	145209	3.78%	0.392%
69	6.909	6.890	6.935	VV	8785	194660	5.06%	0.526%

rteres

70	6.953	6.935	6.980	VV	9445	209618	5.45%	0.566%
71	7.007	6.980	7.028	VV	10732	227975	5.93%	0.616%
72	7.051	7.028	7.089	VV	19520	443559	11.53%	1.198%
73	7.150	7.116	7.168	VV	17180	379599	9.87%	1.025%
74	7.185	7.168	7.204	VV	12416	254262	6.61%	0.686%
75	7.224	7.204	7.250	VV	22866	453874	11.80%	1.225%
76	7.273	7.250	7.303	VV	93393	1178583	30.65%	3.182%
77	7.325	7.303	7.348	VV	12478	315329	8.20%	0.851%
78	7.392	7.348	7.418	VV	16715	601401	15.64%	1.624%
79	7.446	7.418	7.475	VV	31407	690700	17.96%	1.865%
80	7.534	7.511	7.544	VV	16202	283595	7.37%	0.766%
81	7.582	7.544	7.594	VV	21070	540032	14.04%	1.458%
82	7.610	7.594	7.625	VV	26624	393148	10.22%	1.061%
83	7.640	7.625	7.677	VV	21591	528332	13.74%	1.426%
84	7.699	7.677	7.714	VV	31923	498608	12.96%	1.346%
85	7.727	7.714	7.738	VV	26614	345861	8.99%	0.934%
86	7.750	7.738	7.767	VV	29509	413252	10.75%	1.116%
87	7.793	7.767	7.813	VV	30463	603362	15.69%	1.629%
88	7.839	7.813	7.867	VV	43998	876713	22.80%	2.367%
89	7.894	7.867	7.919	VV	34553	704241	18.31%	1.901%
90	7.964	7.919	7.989	VV	78940	1287360	33.47%	3.476%
91	8.013	7.989	8.034	VV	22077	505794	13.15%	1.366%
92	8.053	8.034	8.071	VV	23181	402913	10.48%	1.088%
93	8.093	8.071	8.110	VV	19498	431323	11.22%	1.165%
94	8.143	8.110	8.171	VV	210630	2746547	71.42%	7.416%
95	8.191	8.171	8.217	VV	26767	531630	13.82%	1.435%
96	8.237	8.217	8.252	VV	19521	348537	9.06%	0.941%
97	8.262	8.252	8.271	VV	16418	178501	4.64%	0.482%
98	8.294	8.271	8.315	VV	22471	491463	12.78%	1.327%
99	8.333	8.315	8.371	VV	16451	494674	12.86%	1.336%
100	8.387	8.371	8.402	VV	14340	241728	6.29%	0.653%
101	8.443	8.402	8.480	VV	67445	1224732	31.85%	3.307%
102	8.498	8.480	8.534	VV	21171	549741	14.29%	1.484%
103	8.558	8.534	8.575	VV	17283	373933	9.72%	1.010%
104	8.631	8.613	8.648	VV	19176	301582	7.84%	0.814%
105	8.678	8.648	8.705	VV	56889	899385	23.39%	2.428%
106	8.728	8.705	8.745	VV	17678	311416	8.10%	0.841%
107	8.753	8.745	8.778	VV	11051	175695	4.57%	0.474%
108	8.824	8.778	8.844	VV	11166	332340	8.64%	0.897%
109	8.860	8.844	8.878	VV	8225	148643	3.87%	0.401%
110	8.901	8.878	8.923	VV	9932	225305	5.86%	0.608%
111	8.963	8.923	9.024	VV	84649	1276163	33.18%	3.446%
112	9.046	9.024	9.069	VV	7901	165414	4.30%	0.447%

rteres

113	9.089	9.069	9.133	VV	5240	168947	4.39%	0.456%
114	9.164	9.133	9.174	VV	3989	91041	2.37%	0.246%
115	9.196	9.174	9.230	VV	4372	127639	3.32%	0.345%
116	9.245	9.230	9.308	VV	3796	147344	3.83%	0.398%
117	9.380	9.368	9.394	VV	3601	51907	1.35%	0.140%
118	9.418	9.394	9.444	VV	5002	107436	2.79%	0.290%
119	9.466	9.444	9.485	VV	4711	80415	2.09%	0.217%
120	9.518	9.485	9.549	VV	3835	101757	2.65%	0.275%
121	9.571	9.549	9.634	VV	1641	63621	1.65%	0.172%
122	9.659	9.634	9.673	VV	1605	30388	0.79%	0.082%
123	9.695	9.673	9.714	VV	2036	39792	1.03%	0.107%
124	9.739	9.714	9.785	VV	14960	204271	5.31%	0.552%
125	9.808	9.785	9.825	VV	1151	25770	0.67%	0.070%
126	9.840	9.825	9.891	VV	1213	32927	0.86%	0.089%
127	9.898	9.891	9.938	VV	701	16504	0.43%	0.045%
128	9.951	9.938	9.998	VV	600	19512	0.51%	0.053%
129	10.013	9.998	10.038	VV	584	11533	0.30%	0.031%
130	10.127	10.038	10.153	VV	2495	66064	1.72%	0.178%
131	10.173	10.153	10.192	VV	905	15281	0.40%	0.041%
132	10.216	10.192	10.240	VV	772	16818	0.44%	0.045%
133	10.270	10.240	10.308	VV	773	17797	0.46%	0.048%
134	10.338	10.308	10.351	VV	405	8077	0.21%	0.022%
135	10.374	10.351	10.394	VV	473	9359	0.24%	0.025%
136	10.412	10.394	10.439	VV	506	10957	0.28%	0.030%
137	10.477	10.439	10.514	VV	2697	43643	1.13%	0.118%
138	10.551	10.514	10.579	VV	1163	27443	0.71%	0.074%
139	10.602	10.579	10.640	VV	896	18193	0.47%	0.049%
140	10.668	10.640	10.717	VV	349	12657	0.33%	0.034%
141	10.759	10.717	10.773	VV	282	7292	0.19%	0.020%
142	10.798	10.773	10.831	VV	354	8191	0.21%	0.022%
143	10.848	10.831	10.883	VV	363	8231	0.21%	0.022%
144	10.895	10.883	10.918	VV	470	6783	0.18%	0.018%
145	10.934	10.918	10.967	VV	253	5393	0.14%	0.015%
146	10.983	10.967	11.017	VV	204	4149	0.11%	0.011%
147	11.031	11.017	11.056	VV	148	1572	0.04%	0.004%
148	11.065	11.056	11.072	VV	129	463	0.01%	0.001%
149	11.110	11.072	11.146	PV	1500	21868	0.57%	0.059%
150	11.179	11.146	11.214	VV	2433	34000	0.88%	0.092%
151	11.225	11.214	11.236	VV	168	1827	0.05%	0.005%
152	11.271	11.236	11.308	VV	687	13535	0.35%	0.037%
153	11.334	11.308	11.354	VV	370	4614	0.12%	0.012%
154	11.414	11.354	11.444	VV	137	3937	0.10%	0.011%
155	11.472	11.444	11.517	VV	332	9164	0.24%	0.025%

rteres

156	11.568	11.517	11.596	VV	431	11521	0.30%	0.031%
157	11.634	11.596	11.714	VV	367	15760	0.41%	0.043%
158	11.751	11.714	11.760	VV	229	4592	0.12%	0.012%
159	11.784	11.760	11.797	VV	392	6383	0.17%	0.017%
160	11.844	11.797	11.874	VV	1009	24330	0.63%	0.066%
161	11.895	11.874	11.909	VV	408	5982	0.16%	0.016%
162	11.934	11.909	11.953	VV	419	7268	0.19%	0.020%
163	11.989	11.953	12.018	VV	329	9546	0.25%	0.026%
164	12.064	12.018	12.111	VV	640	20275	0.53%	0.055%
165	12.121	12.111	12.151	VV	454	8065	0.21%	0.022%
166	12.166	12.151	12.199	VV	438	8161	0.21%	0.022%
167	12.259	12.199	12.284	VV	334	13274	0.35%	0.036%
168	12.299	12.284	12.316	VV	502	8016	0.21%	0.022%
169	12.347	12.316	12.387	VV	1085	20665	0.54%	0.056%
170	12.396	12.387	12.400	VV	142	1114	0.03%	0.003%
171	12.426	12.400	12.464	VV	950	15967	0.42%	0.043%
172	12.486	12.464	12.539	VV	2456	35632	0.93%	0.096%
173	12.555	12.539	12.587	VV	287	6315	0.16%	0.017%
174	12.601	12.587	12.621	VV	289	4174	0.11%	0.011%
175	12.632	12.621	12.718	VV	170	2384	0.06%	0.006%
176	12.768	12.718	12.792	PV	274	6888	0.18%	0.019%
177	12.807	12.792	12.828	VV	185	3071	0.08%	0.008%
178	12.847	12.828	12.865	VV	299	4192	0.11%	0.011%
179	12.931	12.865	13.066	VV	310496	3845852	100.00%	10.384%
180	13.097	13.066	13.133	VV	1190	25994	0.68%	0.070%
181	13.148	13.133	13.158	VV	530	7047	0.18%	0.019%
182	13.166	13.158	13.201	VV	497	9040	0.24%	0.024%
183	13.210	13.201	13.246	VV	378	7461	0.19%	0.020%
184	13.260	13.246	13.286	VV	327	6108	0.16%	0.016%
185	13.308	13.286	13.334	VV	438	9691	0.25%	0.026%
186	13.366	13.334	13.382	VV	494	11168	0.29%	0.030%
187	13.391	13.382	13.419	VV	440	6811	0.18%	0.018%
188	13.443	13.419	13.478	VV	291	7875	0.20%	0.021%
189	13.534	13.478	13.574	VV	437	16722	0.43%	0.045%
190	13.630	13.574	13.653	VV	913	20711	0.54%	0.056%
191	13.683	13.653	13.761	VV	2602	42996	1.12%	0.116%
192	13.771	13.761	13.811	VV	235	4968	0.13%	0.013%
193	13.828	13.811	13.845	VV	175	2571	0.07%	0.007%
194	13.855	13.845	13.870	VV	135	1376	0.04%	0.004%
195	13.901	13.870	13.938	PV	344	8853	0.23%	0.024%
196	13.950	13.938	13.962	VV	253	3051	0.08%	0.008%
197	13.976	13.962	13.998	VV	244	3388	0.09%	0.009%
198	14.018	13.998	14.041	VV	228	2988	0.08%	0.008%
199	14.119	14.041	14.148	VV	1069	20827	0.54%	0.056%

rteres

200	14.158	14.148	14.174	VV	260	3303	0.09%	0.009%
201	14.182	14.174	14.198	VV	230	2486	0.06%	0.007%
202	14.209	14.198	14.220	VV	177	1929	0.05%	0.005%
203	14.245	14.220	14.284	VV	1145	17711	0.46%	0.048%
204	14.302	14.284	14.324	VV	265	4347	0.11%	0.012%
205	14.336	14.324	14.361	VV	218	4216	0.11%	0.011%
206	14.444	14.361	14.466	VV	285	12312	0.32%	0.033%
207	14.476	14.466	14.480	VV	244	1633	0.04%	0.004%
208	14.492	14.480	14.517	VV	323	5516	0.14%	0.015%
209	14.538	14.517	14.574	VV	316	8160	0.21%	0.022%
210	14.590	14.574	14.658	VV	314	10305	0.27%	0.028%
211	14.669	14.658	14.678	VV	207	2245	0.06%	0.006%
212	14.696	14.678	14.708	VV	289	4034	0.10%	0.011%
213	14.741	14.708	14.761	VV	963	15865	0.41%	0.043%
214	14.785	14.761	14.861	VV	2314	43243	1.12%	0.117%
215	14.864	14.861	14.881	VV	271	2188	0.06%	0.006%
216	14.901	14.881	14.927	VV	216	3829	0.10%	0.010%
217	14.985	14.927	15.007	PV	299	6624	0.17%	0.018%
218	15.028	15.007	15.053	VV	194	4216	0.11%	0.011%
219	15.074	15.053	15.108	VV	216	4585	0.12%	0.012%
220	15.115	15.108	15.140	VV	180	1714	0.04%	0.005%
221	15.166	15.140	15.186	VV	271	4703	0.12%	0.013%
222	15.205	15.186	15.262	VV	316	10685	0.28%	0.029%
223	15.303	15.262	15.338	VV	963	20080	0.52%	0.054%
224	15.351	15.338	15.401	VV	380	9334	0.24%	0.025%
225	15.434	15.401	15.454	VV	239	4121	0.11%	0.011%
226	15.485	15.454	15.504	VV	244	5023	0.13%	0.014%
227	15.513	15.504	15.554	VV	290	6066	0.16%	0.016%
228	15.563	15.554	15.576	VV	186	2216	0.06%	0.006%
229	15.618	15.576	15.651	VV	412	12432	0.32%	0.034%
230	15.670	15.651	15.734	VV	419	14037	0.36%	0.038%
231	15.765	15.734	15.781	VV	731	12077	0.31%	0.033%
232	15.804	15.781	15.838	VV	1895	31352	0.82%	0.085%
233	15.842	15.838	15.956	VV	478	11253	0.29%	0.030%
234	15.987	15.956	16.055	PV	404	12279	0.32%	0.033%
235	16.062	16.055	16.068	VV	103	699	0.02%	0.002%
236	16.159	16.068	16.178	VV	365	14325	0.37%	0.039%
237	16.187	16.178	16.202	VV	234	2666	0.07%	0.007%
238	16.285	16.202	16.397	VV	989	29610	0.77%	0.080%
239	16.451	16.397	16.569	VV	348	21704	0.56%	0.059%
240	16.589	16.569	16.651	VV	395	12439	0.32%	0.034%
241	16.719	16.651	16.728	VV	699	14203	0.37%	0.038%
242	16.753	16.728	16.824	VV	2080	38892	1.01%	0.105%

rteres

243	16.846	16.824	16.887	VV	256	7603	0.20%	0.021%
244	16.931	16.887	16.951	VV	354	9353	0.24%	0.025%
245	16.980	16.951	17.015	VV	470	10391	0.27%	0.028%
246	17.078	17.015	17.122	PV	418	15435	0.40%	0.042%
247	17.203	17.122	17.248	VV	1456	36497	0.95%	0.099%
248	17.263	17.248	17.278	VV	171	2468	0.06%	0.007%
249	17.311	17.278	17.438	VV	524	25589	0.67%	0.069%
250	17.480	17.438	17.503	PV	429	10181	0.26%	0.027%
251	17.528	17.503	17.553	VV	307	6784	0.18%	0.018%
252	17.571	17.553	17.591	VV	347	6610	0.17%	0.018%
253	17.637	17.591	17.721	VV	2436	56806	1.48%	0.153%
254	17.770	17.721	17.841	VV	984	33103	0.86%	0.089%
255	17.919	17.841	17.944	VV	339	12931	0.34%	0.035%
256	18.060	17.944	18.109	VV	2122	52292	1.36%	0.141%
257	18.136	18.109	18.194	VV	807	18627	0.48%	0.050%
258	18.210	18.194	18.231	VV	302	4419	0.11%	0.012%
259	18.264	18.231	18.284	PV	200	4127	0.11%	0.011%
260	18.328	18.284	18.354	VV	308	9226	0.24%	0.025%
261	18.370	18.354	18.385	VV	156	1913	0.05%	0.005%
262	18.469	18.385	18.537	VV	2362	44327	1.15%	0.120%
263	18.563	18.537	18.591	PV	276	4783	0.12%	0.013%
264	18.607	18.591	18.637	VV	259	4958	0.13%	0.013%
265	18.649	18.637	18.661	VV	206	1542	0.04%	0.004%
266	18.670	18.661	18.679	VV	62	603	0.02%	0.002%
267	18.737	18.679	18.754	PV	205	3352	0.09%	0.009%
268	18.781	18.754	18.794	VV	87	1870	0.05%	0.005%
269	18.867	18.794	18.918	VV	1551	29604	0.77%	0.080%
270	18.968	18.918	18.987	VV	239	6247	0.16%	0.017%
271	18.999	18.987	19.007	VV	200	1889	0.05%	0.005%
272	19.121	19.007	19.148	VV	369	22772	0.59%	0.061%
273	19.173	19.148	19.181	VV	360	6306	0.16%	0.017%
274	19.251	19.181	19.311	VV	2094	58470	1.52%	0.158%
275	19.365	19.311	19.391	VV	558	17068	0.44%	0.046%
276	19.409	19.391	19.428	VV	334	5732	0.15%	0.015%
277	19.445	19.428	19.458	VV	369	5016	0.13%	0.014%
278	19.495	19.458	19.503	VV	529	10973	0.29%	0.030%
279	19.552	19.503	19.565	VV	529	17570	0.46%	0.047%
280	19.627	19.565	19.649	VV	1410	39558	1.03%	0.107%
281	19.671	19.649	19.704	VV	967	28566	0.74%	0.077%
282	19.838	19.704	19.936	VV	5730	384716	10.00%	1.039%
283	19.991	19.936	20.015	VV	3348	119980	3.12%	0.324%
284	20.222	20.015	20.238	VV	3601	405667	10.55%	1.095%
285	20.347	20.238	20.371	VV	4357	299145	7.78%	0.808%

rteres

286	20.467	20.371	20.488	VV	4432	290246	7.55%	0.784%
287	20.512	20.488	20.542	VV	4443	143078	3.72%	0.386%
288	20.552	20.542	20.557	VV	4218	37272	0.97%	0.101%
289	20.576	20.557	20.617	VV	4259	146841	3.82%	0.396%
290	20.710	20.617	20.798	VV	4705	443231	11.52%	1.197%
291	20.810	20.798	20.851	VV	3676	112777	2.93%	0.304%
292	20.858	20.851	20.894	VV	3449	86767	2.26%	0.234%
293	20.900	20.894	20.911	VV	3288	31941	0.83%	0.086%
294	20.942	20.911	20.957	VV	3154	86111	2.24%	0.232%
295	20.984	20.957	21.011	VV	3100	97576	2.54%	0.263%
296	21.030	21.011	21.077	VV	3039	115921	3.01%	0.313%
297	21.130	21.077	21.194	VV	2974	195597	5.09%	0.528%
298	21.202	21.194	21.232	VV	2532	55992	1.46%	0.151%
299	21.241	21.232	21.269	VV	2389	50291	1.31%	0.136%
300	21.323	21.269	21.384	VV	2361	153324	3.99%	0.414%
301	21.388	21.384	21.414	VV	2084	35127	0.91%	0.095%
302	21.435	21.414	21.449	VV	1870	38930	1.01%	0.105%
303	21.472	21.449	21.521	VV	1805	73583	1.91%	0.199%
304	21.595	21.521	21.657	VV	1895	126568	3.29%	0.342%
305	21.669	21.657	21.688	VV	1298	21765	0.57%	0.059%
306	21.718	21.688	21.734	VV	1095	29637	0.77%	0.080%
307	21.755	21.734	21.779	VV	1105	27236	0.71%	0.074%
308	21.795	21.779	21.862	VV	920	38897	1.01%	0.105%
309	21.867	21.862	21.939	VV	675	18973	0.49%	0.051%
310	21.948	21.939	21.980	VV	207	3296	0.09%	0.009%

Sum of corrected areas: 37037709

Aliphatic EPH 102324.M Sat Nov 09 02:44:53 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048676.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 18:08
Operator : YP/AJ
Sample : P4718-01
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-307-SB01

Integration File: sample.E
Quant Time: Nov 09 01:07:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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...	7.369	6306207	41.549 ug/ml
Spiked Amount 50.000		Recovery =	83.10%
6) S 2-Flurobiphenyl (SURR)	8.219	3305686	33.666 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	67.33%
11) S ortho-Terphenyl (SURR)	11.254	4831009	28.361 ug/ml
Spiked Amount 50.000		Recovery =	56.72%
Target Compounds			

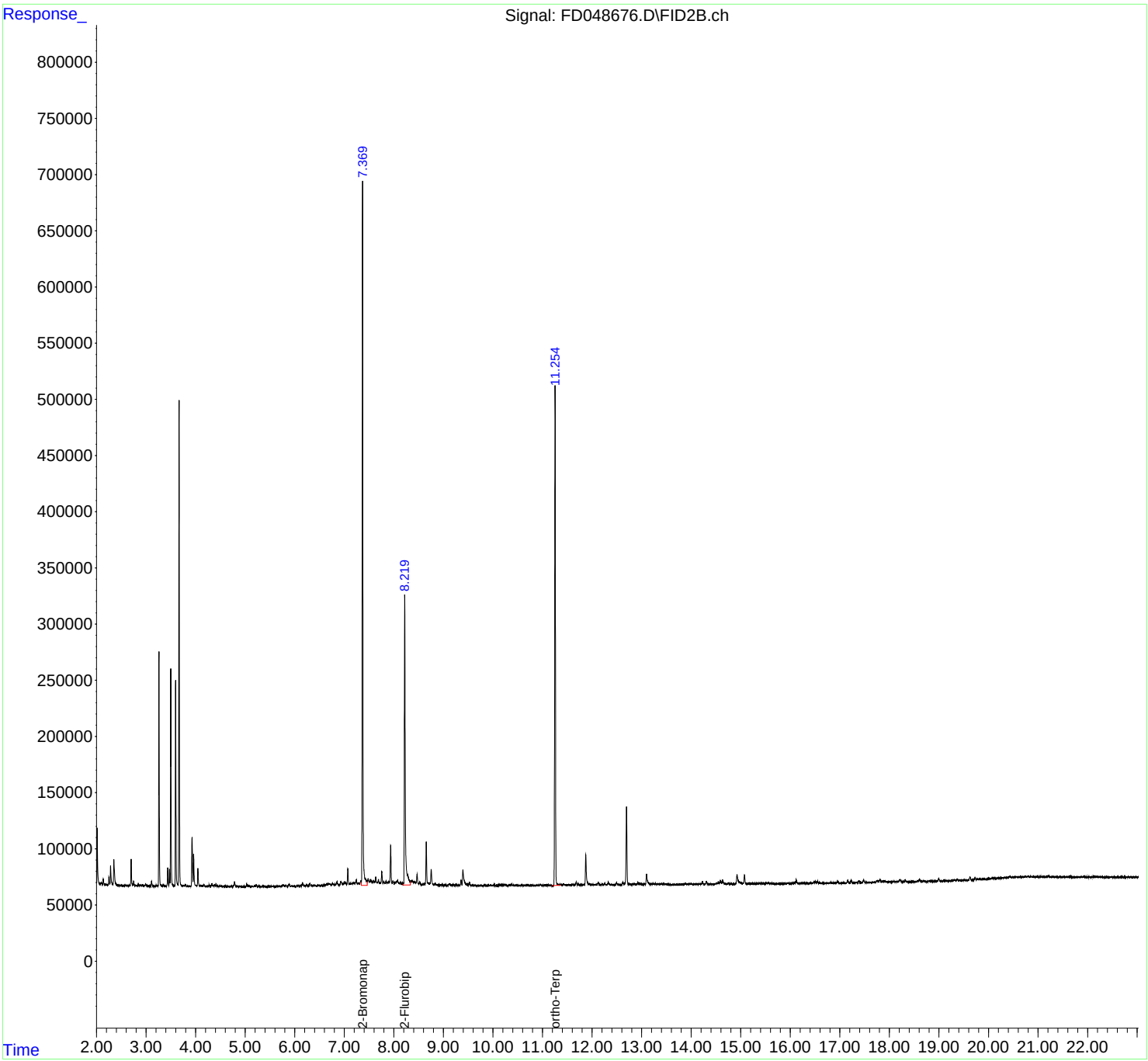
(f)=RT Delta > 1/2 Window (m)=manual int.

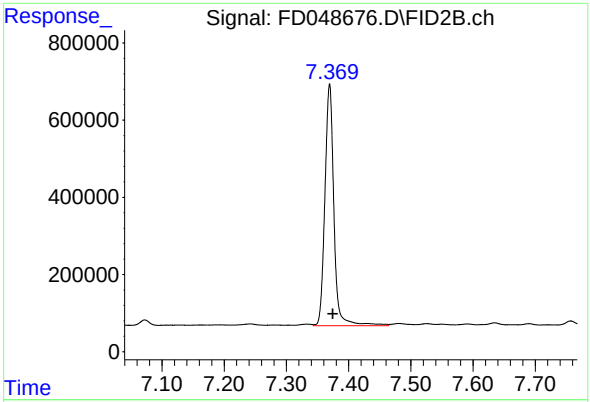
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048676.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 18:08
Operator : YP/AJ
Sample : P4718-01
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-307-SB01

Integration File: sample.E
Quant Time: Nov 09 01:07:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

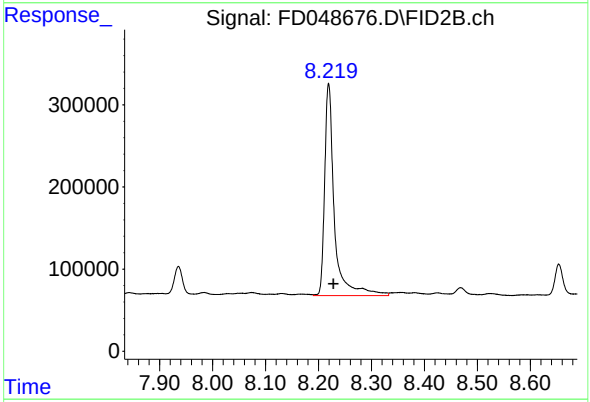




#4 2-Bromonaphthalene (SURR)

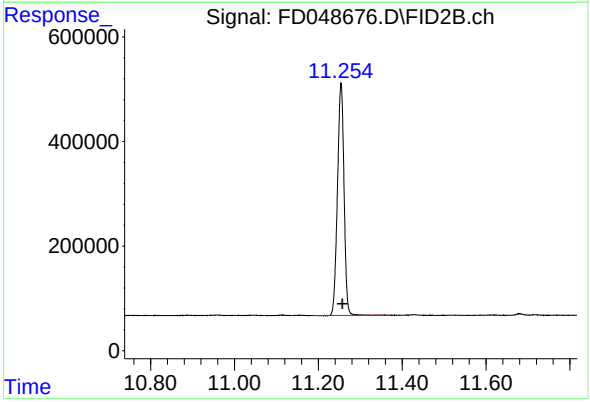
R.T.: 7.369 min
Delta R.T.: -0.005 min
Response: 6306207
Conc: 41.55 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-307-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.009 min
Response: 3305686
Conc: 33.67 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 4831009
Conc: 28.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048676.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 18:08
Sample : P4718-01
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.146	4.194	PV	1750	19713	0.32%	0.070%
2	4.199	4.194	4.215	VV	228	1895	0.03%	0.007%
3	4.218	4.215	4.248	VV	150	1346	0.02%	0.005%
4	4.271	4.248	4.307	PV	1513	13867	0.22%	0.049%
5	4.326	4.307	4.350	VV	2625	32195	0.52%	0.114%
6	4.361	4.350	4.368	VV	794	7110	0.11%	0.025%
7	4.382	4.368	4.397	VV	1539	16797	0.27%	0.060%
8	4.412	4.397	4.455	VV	2385	30974	0.50%	0.110%
9	4.462	4.455	4.475	VV	299	2583	0.04%	0.009%
10	4.489	4.475	4.515	VV	867	10743	0.17%	0.038%
11	4.527	4.515	4.552	VV	453	5202	0.08%	0.018%
12	4.558	4.552	4.583	VV	176	1211	0.02%	0.004%
13	4.597	4.583	4.630	VV	507	6165	0.10%	0.022%
14	4.635	4.630	4.657	VV	198	1448	0.02%	0.005%
15	4.663	4.657	4.678	PV	228	1663	0.03%	0.006%
16	4.708	4.678	4.729	VV	482	7563	0.12%	0.027%
17	4.735	4.729	4.742	VV	335	2145	0.03%	0.008%
18	4.784	4.742	4.821	VV	4584	65848	1.06%	0.234%
19	4.842	4.821	4.879	VV	1161	13444	0.22%	0.048%
20	4.897	4.879	4.909	VV	253	3644	0.06%	0.013%
21	4.912	4.909	4.949	VV	247	4704	0.08%	0.017%
22	4.976	4.958	4.999	VV	530	5428	0.09%	0.019%
23	5.031	4.999	5.116	PV	2131	55777	0.89%	0.198%
24	5.123	5.116	5.133	VV	447	3503	0.06%	0.012%
25	5.150	5.133	5.164	VV	427	5714	0.09%	0.020%
26	5.190	5.164	5.207	PV	1278	16205	0.26%	0.058%
27	5.227	5.207	5.245	VV	1771	19580	0.31%	0.070%
28	5.265	5.245	5.270	VV	339	3222	0.05%	0.011%
29	5.282	5.270	5.318	VV	604	9206	0.15%	0.033%
30	5.322	5.318	5.329	VV	257	1304	0.02%	0.005%
31	5.334	5.329	5.340	VV	374	1796	0.03%	0.006%
32	5.348	5.340	5.358	VV	495	4488	0.07%	0.016%
33	5.364	5.358	5.397	VV	680	7533	0.12%	0.027%
34	5.401	5.397	5.413	VV	205	1080	0.02%	0.004%
35	5.426	5.413	5.442	PV	229	2465	0.04%	0.009%
36	5.458	5.442	5.465	VV	401	3388	0.05%	0.012%

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37	5.474	5.465	5.500	VV	464	5860	0.09%	0.021%
38	5.535	5.524	5.549	VV	436	4295	0.07%	0.015%
39	5.562	5.549	5.570	VV	432	3573	0.06%	0.013%
40	5.573	5.570	5.579	VV	207	1035	0.02%	0.004%
41	5.586	5.579	5.602	VV	276	2872	0.05%	0.010%
42	5.610	5.602	5.617	VV	276	1257	0.02%	0.004%
43	5.635	5.617	5.645	VV	398	3950	0.06%	0.014%
44	5.707	5.645	5.717	VV	537	14893	0.24%	0.053%
45	5.768	5.717	5.807	VV	1493	49006	0.79%	0.174%
46	5.821	5.807	5.844	VV	1667	20055	0.32%	0.071%
47	5.847	5.844	5.855	VV	478	2562	0.04%	0.009%
48	5.886	5.855	5.919	VV	1911	41170	0.66%	0.146%
49	5.940	5.919	5.965	VV	815	17550	0.28%	0.062%
50	5.979	5.965	5.994	VV	1003	11339	0.18%	0.040%
51	5.998	5.994	6.017	VV	434	3331	0.05%	0.012%
52	6.047	6.017	6.060	PV	982	17230	0.28%	0.061%
53	6.074	6.060	6.100	VV	1086	16486	0.26%	0.059%
54	6.119	6.100	6.135	VV	956	14346	0.23%	0.051%
55	6.159	6.135	6.192	VV	3619	59336	0.95%	0.211%
56	6.197	6.192	6.217	VV	869	9967	0.16%	0.035%
57	6.239	6.217	6.262	VV	1823	30310	0.49%	0.108%
58	6.306	6.262	6.328	VV	2694	57064	0.92%	0.203%
59	6.341	6.328	6.358	VV	1116	17516	0.28%	0.062%
60	6.377	6.358	6.390	VV	1359	20733	0.33%	0.074%
61	6.403	6.390	6.434	VV	1202	22432	0.36%	0.080%
62	6.472	6.434	6.524	VV	1330	49319	0.79%	0.175%
63	6.535	6.524	6.562	VV	1194	23027	0.37%	0.082%
64	6.566	6.562	6.575	VV	861	6082	0.10%	0.022%
65	6.593	6.575	6.607	VV	2065	28594	0.46%	0.102%
66	6.650	6.607	6.679	VV	2480	82316	1.32%	0.292%
67	6.691	6.679	6.700	VV	2690	32258	0.52%	0.115%
68	6.712	6.700	6.742	VV	2649	46889	0.75%	0.167%
69	6.772	6.742	6.795	VV	2642	69438	1.11%	0.247%
70	6.812	6.795	6.825	VV	2224	34398	0.55%	0.122%
71	6.853	6.825	6.892	VV	4487	100462	1.61%	0.357%
72	6.933	6.892	6.960	VV	4822	116102	1.86%	0.412%
73	6.971	6.960	6.982	VV	2517	30239	0.49%	0.107%
74	7.006	6.982	7.023	VV	4607	79481	1.27%	0.282%
75	7.032	7.023	7.047	VV	2893	38144	0.61%	0.135%
76	7.072	7.047	7.095	VV	16081	200997	3.22%	0.714%
77	7.125	7.095	7.141	VV	2838	69858	1.12%	0.248%
78	7.161	7.141	7.172	VV	2905	49797	0.80%	0.177%
79	7.194	7.172	7.213	VV	3341	73822	1.18%	0.262%
80	7.242	7.213	7.267	VV	5596	122027	1.96%	0.433%
81	7.280	7.267	7.301	VV	2891	53634	0.86%	0.190%
82	7.305	7.301	7.311	VV	2544	14681	0.24%	0.052%
83	7.332	7.311	7.345	VV	5182	79007	1.27%	0.281%
84	7.370	7.345	7.422	VV	629305	6234340	100.00%	22.142%
85	7.429	7.422	7.465	VV	6819	143248	2.30%	0.509%
86	7.481	7.465	7.506	VV	7018	130656	2.10%	0.464%
87	7.526	7.506	7.542	VV	6431	108240	1.74%	0.384%
88	7.550	7.542	7.571	VV	5007	71748	1.15%	0.255%
89	7.591	7.571	7.608	VV	5607	95952	1.54%	0.341%

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90	7.635	7.608	7.655	VV	8602	148719	2.39%	0.528%
91	7.667	7.655	7.673	VV	3547	37524	0.60%	0.133%
92	7.690	7.673	7.709	VV	6263	94041	1.51%	0.334%
93	7.721	7.709	7.735	VV	3292	49627	0.80%	0.176%
94	7.757	7.735	7.779	VV	13240	181648	2.91%	0.645%
95	7.797	7.779	7.825	VV	4464	95154	1.53%	0.338%
96	7.842	7.825	7.863	VV	4949	87203	1.40%	0.310%
97	7.877	7.863	7.883	VV	3639	41569	0.67%	0.148%
98	7.897	7.883	7.912	VV	3908	64244	1.03%	0.228%
99	7.936	7.912	7.965	VV	36749	450681	7.23%	1.601%
100	7.984	7.965	8.011	VV	4995	98347	1.58%	0.349%
101	8.030	8.011	8.038	VV	3652	51049	0.82%	0.181%
102	8.056	8.038	8.062	VV	4068	54807	0.88%	0.195%
103	8.074	8.062	8.100	VV	4929	90449	1.45%	0.321%
104	8.108	8.100	8.117	VV	2984	27876	0.45%	0.099%
105	8.130	8.117	8.150	VV	3708	61193	0.98%	0.217%
106	8.168	8.150	8.191	VV	2928	64458	1.03%	0.229%
107	8.219	8.191	8.273	VV	259386	3167083	50.80%	11.248%
108	8.283	8.273	8.334	VV	10142	244465	3.92%	0.868%
109	8.358	8.334	8.370	VV	4883	102103	1.64%	0.363%
110	8.382	8.370	8.408	VV	4656	88552	1.42%	0.314%
111	8.425	8.408	8.446	VV	4515	83443	1.34%	0.296%
112	8.468	8.446	8.508	VV	10793	186775	3.00%	0.663%
113	8.523	8.508	8.565	VV	3649	84026	1.35%	0.298%
114	8.585	8.565	8.590	VV	2044	26265	0.42%	0.093%
115	8.594	8.590	8.602	VV	2108	13483	0.22%	0.048%
116	8.613	8.602	8.628	VV	2196	30699	0.49%	0.109%
117	8.654	8.628	8.721	VV	39569	506486	8.12%	1.799%
118	8.754	8.721	8.802	VV	14933	246545	3.95%	0.876%
119	8.817	8.802	8.824	VV	1741	21407	0.34%	0.076%
120	8.836	8.824	8.863	VV	2060	36676	0.59%	0.130%
121	8.891	8.863	8.911	VV	1428	31357	0.50%	0.111%
122	8.949	8.911	8.957	VV	1207	27671	0.44%	0.098%
123	8.963	8.957	8.974	VV	1196	10910	0.17%	0.039%
124	8.990	8.974	9.008	VV	1199	19308	0.31%	0.069%
125	9.014	9.008	9.018	VV	812	4581	0.07%	0.016%
126	9.034	9.018	9.044	VV	1123	15072	0.24%	0.054%
127	9.053	9.044	9.075	VV	1246	16973	0.27%	0.060%
128	9.081	9.075	9.095	VV	761	8023	0.13%	0.028%
129	9.117	9.095	9.161	VV	2002	48954	0.79%	0.174%
130	9.169	9.161	9.179	VV	945	9257	0.15%	0.033%
131	9.196	9.179	9.202	VV	1050	12528	0.20%	0.044%
132	9.207	9.202	9.226	VV	1168	12365	0.20%	0.044%
133	9.256	9.226	9.272	VV	1285	24500	0.39%	0.087%
134	9.277	9.272	9.296	VV	851	10959	0.18%	0.039%
135	9.305	9.296	9.320	VV	867	10528	0.17%	0.037%
136	9.356	9.320	9.375	VV	5556	73281	1.18%	0.260%
137	9.394	9.375	9.470	VV	14555	294554	4.72%	1.046%
138	9.474	9.470	9.480	VV	1520	9076	0.15%	0.032%
139	9.484	9.480	9.510	VV	1494	22465	0.36%	0.080%
140	9.528	9.510	9.580	VV	3534	57743	0.93%	0.205%
141	9.598	9.580	9.608	VV	771	10557	0.17%	0.037%

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142	9.619	9.608	9.642	VV	815	13437	0.22%	0.048%
143	9.647	9.642	9.663	VV	588	6305	0.10%	0.022%
144	9.677	9.663	9.687	VV	602	7476	0.12%	0.027%
145	9.702	9.687	9.713	VV	622	7553	0.12%	0.027%
146	9.728	9.713	9.736	VV	521	6161	0.10%	0.022%
147	9.742	9.736	9.747	VV	494	3037	0.05%	0.011%
148	9.760	9.747	9.787	VV	652	10355	0.17%	0.037%
149	9.792	9.787	9.796	VV	274	1542	0.02%	0.005%
150	9.799	9.796	9.815	VV	315	2873	0.05%	0.010%
151	9.840	9.815	9.865	VV	682	13007	0.21%	0.046%
152	9.875	9.865	9.888	VV	575	6524	0.10%	0.023%
153	9.916	9.888	9.932	VV	786	15583	0.25%	0.055%
154	9.948	9.932	9.978	VV	794	15723	0.25%	0.056%
155	9.983	9.978	9.991	VV	493	3359	0.05%	0.012%
156	10.028	9.991	10.064	VV	1568	30369	0.49%	0.108%
157	10.071	10.064	10.080	VV	373	3280	0.05%	0.012%
158	10.094	10.080	10.101	VV	618	5247	0.08%	0.019%
159	10.124	10.101	10.139	VV	981	16191	0.26%	0.058%
160	10.157	10.139	10.179	VV	1023	19378	0.31%	0.069%
161	10.192	10.179	10.218	VV	1110	18009	0.29%	0.064%
162	10.235	10.218	10.240	VV	1009	10645	0.17%	0.038%
163	10.244	10.240	10.248	VV	1059	4668	0.07%	0.017%
164	10.258	10.248	10.296	VV	1243	22234	0.36%	0.079%
165	10.336	10.296	10.350	VV	672	16936	0.27%	0.060%
166	10.382	10.350	10.411	VV	1455	31680	0.51%	0.113%
167	10.415	10.411	10.427	VV	714	4248	0.07%	0.015%
168	10.434	10.427	10.461	VV	456	7085	0.11%	0.025%
169	10.482	10.461	10.501	VV	472	8692	0.14%	0.031%
170	10.505	10.501	10.524	VV	346	3408	0.05%	0.012%
171	10.531	10.524	10.547	VV	287	3402	0.05%	0.012%
172	10.563	10.547	10.604	VV	582	14878	0.24%	0.053%
173	10.612	10.604	10.636	VV	370	6006	0.10%	0.021%
174	10.651	10.636	10.662	VV	734	7825	0.13%	0.028%
175	10.680	10.662	10.699	VV	887	13947	0.22%	0.050%
176	10.708	10.699	10.731	VV	567	8076	0.13%	0.029%
177	10.740	10.731	10.762	VV	538	7847	0.13%	0.028%
178	10.765	10.762	10.776	VV	475	3104	0.05%	0.011%
179	10.786	10.776	10.803	VV	391	4993	0.08%	0.018%
180	10.810	10.803	10.822	VV	364	3446	0.06%	0.012%
181	10.826	10.822	10.842	VV	332	2676	0.04%	0.010%
182	10.849	10.842	10.855	VV	264	1651	0.03%	0.006%
183	10.863	10.855	10.868	VV	396	2052	0.03%	0.007%
184	10.892	10.868	10.917	VV	821	13785	0.22%	0.049%
185	10.958	10.917	10.979	VV	1159	24148	0.39%	0.086%
186	11.000	10.979	11.018	VV	611	10389	0.17%	0.037%
187	11.044	11.018	11.090	VV	887	17952	0.29%	0.064%
188	11.114	11.090	11.137	VV	953	13796	0.22%	0.049%
189	11.155	11.137	11.177	VV	629	10061	0.16%	0.036%
190	11.182	11.177	11.224	VV	187	2011	0.03%	0.007%
191	11.254	11.224	11.326	PV	444396	4848719	77.77%	17.221%
192	11.352	11.326	11.369	VV	1107	23840	0.38%	0.085%
193	11.382	11.369	11.397	VV	921	13826	0.22%	0.049%
194	11.427	11.397	11.462	VV	1743	38353	0.62%	0.136%

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195	11.471	11.462	11.492	VV	598	8843	0.14%	0.031%
196	11.526	11.492	11.549	VV	813	20549	0.33%	0.073%
197	11.557	11.549	11.564	VV	541	4178	0.07%	0.015%
198	11.588	11.564	11.597	VV	768	12306	0.20%	0.044%
199	11.618	11.597	11.638	VV	1148	20037	0.32%	0.071%
200	11.680	11.638	11.703	VV	3593	55497	0.89%	0.197%
201	11.718	11.703	11.749	VV	1621	26655	0.43%	0.095%
202	11.755	11.749	11.772	VV	647	8182	0.13%	0.029%
203	11.777	11.772	11.797	VV	786	9229	0.15%	0.033%
204	11.816	11.797	11.822	VV	681	8939	0.14%	0.032%
205	11.833	11.822	11.850	VV	1075	15504	0.25%	0.055%
206	11.873	11.850	11.944	VV	27641	409912	6.58%	1.456%
207	11.950	11.944	11.983	VV	1441	26039	0.42%	0.092%
208	11.994	11.983	12.035	VV	907	26953	0.43%	0.096%
209	12.040	12.035	12.052	VV	966	8893	0.14%	0.032%
210	12.057	12.052	12.060	VV	909	4091	0.07%	0.015%
211	12.065	12.060	12.077	VV	1025	9158	0.15%	0.033%
212	12.093	12.077	12.105	VV	1151	16437	0.26%	0.058%
213	12.123	12.105	12.145	VV	2775	41252	0.66%	0.147%
214	12.155	12.145	12.182	VV	910	14656	0.24%	0.052%
215	12.202	12.182	12.238	VV	1388	28806	0.46%	0.102%
216	12.259	12.238	12.300	VV	1832	37404	0.60%	0.133%
217	12.326	12.300	12.364	VV	2698	58398	0.94%	0.207%
218	12.367	12.364	12.382	VV	819	8310	0.13%	0.030%
219	12.388	12.382	12.429	VV	763	15657	0.25%	0.056%
220	12.438	12.429	12.442	VV	621	3999	0.06%	0.014%
221	12.450	12.442	12.467	VV	646	7532	0.12%	0.027%
222	12.494	12.467	12.532	VV	2048	45146	0.72%	0.160%
223	12.542	12.532	12.572	VV	827	15727	0.25%	0.056%
224	12.581	12.572	12.588	VV	594	4897	0.08%	0.017%
225	12.592	12.588	12.595	VV	604	2213	0.04%	0.008%
226	12.617	12.595	12.646	VV	2357	48680	0.78%	0.173%
227	12.695	12.646	12.735	VV	70100	891768	14.30%	3.167%
228	12.742	12.735	12.779	VV	1452	28802	0.46%	0.102%
229	12.784	12.779	12.796	VV	938	8261	0.13%	0.029%
230	12.801	12.796	12.810	VV	809	6352	0.10%	0.023%
231	12.829	12.810	12.841	VV	1203	18448	0.30%	0.066%
232	12.851	12.841	12.898	VV	1265	33538	0.54%	0.119%
233	12.925	12.898	12.942	VV	2476	41305	0.66%	0.147%
234	12.949	12.942	12.977	VV	1567	28405	0.46%	0.101%
235	12.987	12.977	13.009	VV	1124	19279	0.31%	0.068%
236	13.014	13.009	13.026	VV	921	8630	0.14%	0.031%
237	13.034	13.026	13.053	VV	946	14257	0.23%	0.051%
238	13.065	13.053	13.076	VV	971	12434	0.20%	0.044%
239	13.100	13.076	13.187	VV	10110	211374	3.39%	0.751%
240	13.199	13.187	13.219	VV	1182	20032	0.32%	0.071%
241	13.245	13.219	13.255	VV	1223	24475	0.39%	0.087%
242	13.273	13.255	13.305	VV	1359	31897	0.51%	0.113%
243	13.325	13.305	13.332	VV	1083	14769	0.24%	0.052%
244	13.339	13.332	13.352	VV	985	10668	0.17%	0.038%
245	13.372	13.352	13.377	VV	1218	15184	0.24%	0.054%
246	13.402	13.377	13.433	VV	1607	39637	0.64%	0.141%

rteres

247	13.452	13.433	13.472	VV	1523	26896	0.43%	0.096%
248	13.494	13.472	13.515	VV	1114	24996	0.40%	0.089%
249	13.523	13.515	13.536	VV	713	8001	0.13%	0.028%
250	13.546	13.536	13.568	VV	782	12215	0.20%	0.043%
251	13.573	13.568	13.595	VV	746	8372	0.13%	0.030%
252	13.600	13.595	13.609	VV	382	2775	0.04%	0.010%
253	13.625	13.609	13.635	VV	429	5972	0.10%	0.021%
254	13.641	13.635	13.650	VV	605	3753	0.06%	0.013%
255	13.662	13.650	13.689	VV	601	10941	0.18%	0.039%
256	13.702	13.689	13.709	VV	640	6849	0.11%	0.024%
257	13.714	13.709	13.720	VV	698	4148	0.07%	0.015%
258	13.726	13.720	13.740	VV	589	5966	0.10%	0.021%
259	13.745	13.740	13.750	VV	594	3032	0.05%	0.011%
260	13.755	13.750	13.764	VV	598	4415	0.07%	0.016%
261	13.781	13.764	13.799	VV	625	10299	0.17%	0.037%
262	13.808	13.799	13.830	VV	705	11714	0.19%	0.042%
263	13.854	13.830	13.869	VV	1108	20995	0.34%	0.075%
264	13.883	13.869	13.924	VV	1452	32988	0.53%	0.117%
265	13.935	13.924	13.947	VV	918	10578	0.17%	0.038%
266	13.974	13.947	13.995	VV	1572	29807	0.48%	0.106%
267	13.999	13.995	14.030	VV	837	14782	0.24%	0.052%
268	14.069	14.030	14.072	VV	815	18476	0.30%	0.066%
269	14.075	14.072	14.090	VV	768	7516	0.12%	0.027%
270	14.104	14.090	14.135	VV	987	22645	0.36%	0.080%
271	14.139	14.135	14.144	VV	854	3963	0.06%	0.014%
272	14.154	14.144	14.160	VV	828	7855	0.13%	0.028%
273	14.169	14.160	14.197	VV	928	18557	0.30%	0.066%
274	14.227	14.197	14.275	VV	2992	62755	1.01%	0.223%
275	14.307	14.275	14.335	VV	3162	55088	0.88%	0.196%
276	14.351	14.335	14.369	VV	837	14584	0.23%	0.052%
277	14.387	14.369	14.422	VV	1178	25272	0.41%	0.090%
278	14.428	14.422	14.442	VV	733	7565	0.12%	0.027%
279	14.445	14.442	14.454	VV	562	3544	0.06%	0.013%
280	14.461	14.454	14.472	VV	626	5662	0.09%	0.020%
281	14.507	14.472	14.527	VV	1630	34047	0.55%	0.121%
282	14.546	14.527	14.567	VV	2066	39072	0.63%	0.139%
283	14.591	14.567	14.610	VV	3842	64235	1.03%	0.228%
284	14.634	14.610	14.695	VV	4508	105108	1.69%	0.373%
285	14.701	14.695	14.709	VV	859	6295	0.10%	0.022%
286	14.717	14.709	14.722	VV	1084	7231	0.12%	0.026%
287	14.750	14.722	14.778	VV	1695	39348	0.63%	0.140%
288	14.784	14.778	14.794	VV	947	7743	0.12%	0.027%
289	14.798	14.794	14.804	VV	827	4959	0.08%	0.018%
290	14.816	14.804	14.840	VV	1110	20154	0.32%	0.072%
291	14.846	14.840	14.862	VV	893	9249	0.15%	0.033%
292	14.872	14.862	14.892	VV	751	11680	0.19%	0.041%
293	14.924	14.892	15.012	VV	9241	241173	3.87%	0.857%
294	15.017	15.012	15.045	VV	1528	25385	0.41%	0.090%
295	15.076	15.045	15.107	VV	8989	136207	2.18%	0.484%
296	15.115	15.107	15.141	VV	1223	18245	0.29%	0.065%
297	15.175	15.141	15.181	VV	989	20696	0.33%	0.074%
298	15.189	15.181	15.222	VV	1078	24043	0.39%	0.085%
299	15.252	15.222	15.257	VV	1202	20769	0.33%	0.074%

rteres

300	15.261	15.257	15.267	VV	1174	6545	0.10%	0.023%
301	15.271	15.267	15.287	VV	1181	12775	0.20%	0.045%
302	15.292	15.287	15.307	VV	1098	11957	0.19%	0.042%
303	15.311	15.307	15.324	VV	840	8939	0.14%	0.032%
304	15.394	15.324	15.437	VV	1149	69036	1.11%	0.245%
305	15.457	15.437	15.495	VV	1159	34781	0.56%	0.124%
306	15.522	15.495	15.541	VV	1394	32445	0.52%	0.115%
307	15.560	15.541	15.599	VV	1872	43640	0.70%	0.155%
308	15.619	15.599	15.684	VV	1276	49451	0.79%	0.176%
309	15.720	15.684	15.745	VV	835	25204	0.40%	0.090%
310	15.760	15.745	15.780	VV	846	15152	0.24%	0.054%
311	15.806	15.780	15.826	VV	927	20448	0.33%	0.073%
312	15.844	15.826	15.869	VV	842	17483	0.28%	0.062%
313	15.895	15.869	15.910	VV	827	17990	0.29%	0.064%
314	15.936	15.910	15.986	VV	1303	45449	0.73%	0.161%
315	15.996	15.986	16.012	VV	1068	14861	0.24%	0.053%
316	16.040	16.012	16.066	VV	1485	36234	0.58%	0.129%
317	16.120	16.066	16.180	VV	3804	113648	1.82%	0.404%
318	16.189	16.180	16.196	VV	1102	9315	0.15%	0.033%
319	16.244	16.196	16.262	VV	1368	45502	0.73%	0.162%
320	16.272	16.262	16.325	VV	1185	38294	0.61%	0.136%
321	16.336	16.325	16.372	VV	890	24105	0.39%	0.086%
322	16.403	16.372	16.447	VV	1409	50609	0.81%	0.180%
323	16.478	16.447	16.489	VV	1869	37254	0.60%	0.132%
324	16.506	16.489	16.528	VV	2487	46614	0.75%	0.166%
325	16.549	16.528	16.577	VV	2887	57887	0.93%	0.206%
326	16.584	16.577	16.635	VV	1540	42312	0.68%	0.150%
327	16.670	16.635	16.688	VV	1142	32564	0.52%	0.116%
328	16.714	16.688	16.725	VV	1128	22789	0.37%	0.081%
329	16.736	16.725	16.762	VV	1114	21050	0.34%	0.075%
330	16.814	16.762	16.845	VV	1698	59362	0.95%	0.211%
331	16.871	16.845	16.914	VV	1397	48969	0.79%	0.174%
332	16.953	16.914	16.989	VV	2950	73020	1.17%	0.259%
333	17.021	16.989	17.053	VV	1189	41370	0.66%	0.147%
334	17.067	17.053	17.080	VV	1337	19137	0.31%	0.068%
335	17.083	17.080	17.105	VV	1235	17160	0.28%	0.061%
336	17.114	17.105	17.132	VV	1160	17773	0.29%	0.063%
337	17.160	17.132	17.203	VV	3777	83423	1.34%	0.296%
338	17.230	17.203	17.272	VV	3365	78314	1.26%	0.278%
339	17.285	17.272	17.295	VV	1262	15919	0.26%	0.057%
340	17.388	17.295	17.422	VV	3180	129287	2.07%	0.459%
341	17.478	17.422	17.520	VV	3773	115492	1.85%	0.410%
342	17.530	17.520	17.552	VV	1524	27568	0.44%	0.098%
343	17.559	17.552	17.579	VV	1475	22611	0.36%	0.080%
344	17.585	17.579	17.638	VV	1516	48736	0.78%	0.173%
345	17.679	17.638	17.695	VV	1649	50616	0.81%	0.180%
346	17.747	17.695	17.790	VV	3134	127014	2.04%	0.451%
347	17.809	17.790	17.839	VV	4057	82825	1.33%	0.294%
348	17.855	17.839	17.870	VV	2433	41054	0.66%	0.146%
349	17.897	17.870	17.994	VV	2740	163874	2.63%	0.582%
350	18.001	17.994	18.007	VV	1826	14166	0.23%	0.050%
351	18.015	18.007	18.037	VV	1846	30674	0.49%	0.109%

rteres

352	18.076	18.037	18.130	VV	2501	113886	1.83%	0.404%
353	18.217	18.130	18.250	VBA	4163	174789	2.80%	0.621%

Sum of corrected areas: 28156500

Aromatic EPH 102324.M Sat Nov 09 03:28:13 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067677.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 20:33
Operator : YP/AJ
Sample : P4718-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB02

Integration File: autoint1.e
Quant Time: Nov 09 01:38:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.929	3231090	29.921 ug/ml
Spiked Amount 50.000		Recovery = 59.84%	
Target Compounds			

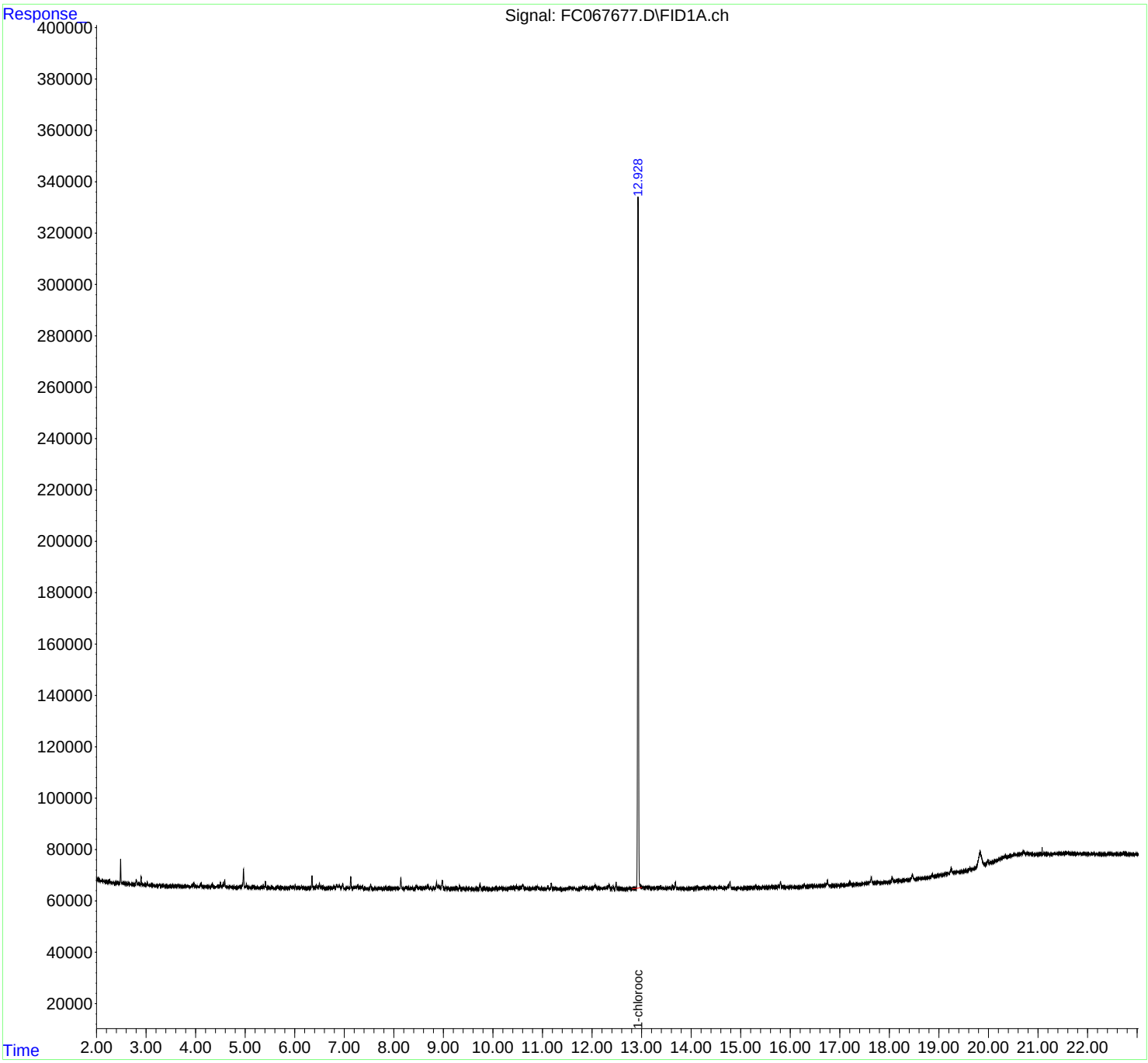
(f)=RT Delta > 1/2 Window (m)=manual int.

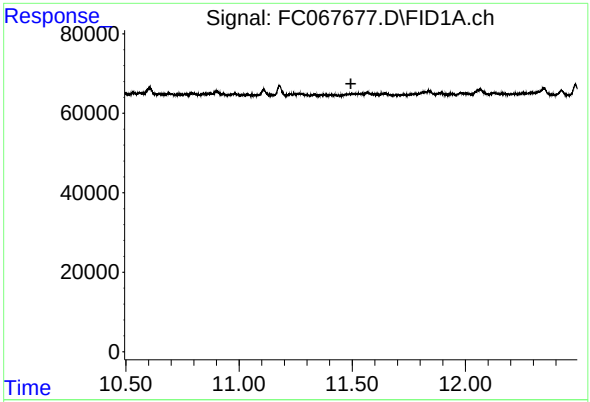
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067677.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 20:33
Operator : YP/AJ
Sample : P4718-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB02

Integration File: autoint1.e
Quant Time: Nov 09 01:38:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

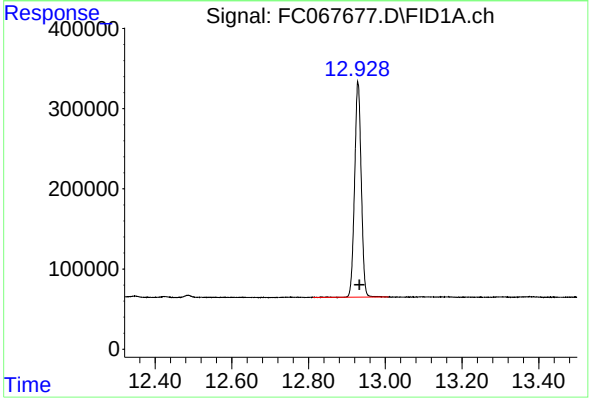




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-307-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: -0.004 min
Response: 3231090
Conc: 29.92 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067677.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 20:33
Sample : P4718-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.177	3.154	3.223	BV	32	-273	-0.01%	-0.003%
2	3.236	3.223	3.249	PV	104	898	0.03%	0.009%
3	3.272	3.249	3.358	VV	622	9222	0.28%	0.087%
4	3.369	3.358	3.380	PV	122	1040	0.03%	0.010%
5	3.389	3.380	3.434	VV	146	2670	0.08%	0.025%
6	3.444	3.434	3.460	VV	104	1045	0.03%	0.010%
7	3.471	3.460	3.518	VV	132	2548	0.08%	0.024%
8	3.538	3.518	3.560	PV	286	4303	0.13%	0.041%
9	3.593	3.560	3.622	VV	582	7403	0.23%	0.070%
10	3.642	3.622	3.663	VV	359	4877	0.15%	0.046%
11	3.677	3.663	3.687	VV	139	1539	0.05%	0.015%
12	3.728	3.687	3.741	VV	176	3762	0.11%	0.036%
13	3.763	3.741	3.828	VV	236	6262	0.19%	0.059%
14	3.846	3.828	3.859	VV	249	2983	0.09%	0.028%
15	3.865	3.859	3.897	VV	146	2359	0.07%	0.022%
16	3.936	3.897	3.948	PV	710	8336	0.25%	0.079%
17	3.964	3.948	4.018	VV	1799	20812	0.63%	0.197%
18	4.030	4.018	4.057	VV	315	3527	0.11%	0.033%
19	4.111	4.057	4.131	VV	1449	22344	0.68%	0.212%
20	4.145	4.131	4.198	VV	221	5604	0.17%	0.053%
21	4.200	4.198	4.228	VV	165	1452	0.04%	0.014%
22	4.253	4.228	4.314	VV	214	7962	0.24%	0.075%
23	4.335	4.314	4.361	VV	1324	14804	0.45%	0.140%
24	4.374	4.361	4.392	VV	292	3615	0.11%	0.034%
25	4.404	4.392	4.421	VV	151	2183	0.07%	0.021%

rteres

26	4.448	4.421	4.470	VV	549	8147	0.25%	0.077%
27	4.502	4.470	4.523	VV	2071	24144	0.73%	0.229%
28	4.535	4.523	4.541	VV	434	3733	0.11%	0.035%
29	4.558	4.541	4.572	VV	1943	19642	0.60%	0.186%
30	4.588	4.572	4.631	VV	3016	31644	0.96%	0.300%
31	4.662	4.658	4.674	VV	173	1334	0.04%	0.013%
32	4.702	4.674	4.724	VV	423	6943	0.21%	0.066%
33	4.740	4.724	4.763	VV	169	3306	0.10%	0.031%
34	4.775	4.763	4.789	VV	243	2753	0.08%	0.026%
35	4.804	4.789	4.842	VV	245	3766	0.11%	0.036%
36	4.888	4.842	4.909	PV	458	7609	0.23%	0.072%
37	4.966	4.909	4.998	VV	7297	93850	2.86%	0.889%
38	5.023	4.998	5.068	VV	1535	19121	0.58%	0.181%
39	5.075	5.068	5.111	VV	187	2637	0.08%	0.025%
40	5.159	5.111	5.179	VV	433	6967	0.21%	0.066%
41	5.193	5.179	5.218	VV	273	4205	0.13%	0.040%
42	5.260	5.218	5.278	VV	200	4796	0.15%	0.045%
43	5.288	5.278	5.303	VV	152	1198	0.04%	0.011%
44	5.335	5.303	5.348	PV	287	4281	0.13%	0.041%
45	5.369	5.348	5.383	VV	816	9365	0.28%	0.089%
46	5.410	5.383	5.434	VV	2612	32780	1.00%	0.311%
47	5.466	5.434	5.487	VV	716	9013	0.27%	0.085%
48	5.550	5.487	5.584	VV	564	12667	0.39%	0.120%
49	5.618	5.584	5.633	VV	207	3760	0.11%	0.036%
50	5.660	5.633	5.690	VV	550	9828	0.30%	0.093%
51	5.714	5.690	5.751	VV	302	6480	0.20%	0.061%
52	5.778	5.751	5.795	VV	233	3181	0.10%	0.030%
53	5.823	5.795	5.845	PV	242	3953	0.12%	0.037%
54	5.874	5.845	5.885	VV	286	4455	0.14%	0.042%
55	5.920	5.885	5.946	VV	623	13391	0.41%	0.127%
56	5.967	5.946	5.988	VV	808	10223	0.31%	0.097%
57	6.009	5.988	6.038	VV	1453	16954	0.52%	0.161%
58	6.070	6.038	6.114	VV	612	11969	0.36%	0.113%
59	6.141	6.114	6.177	VV	657	13169	0.40%	0.125%
60	6.188	6.177	6.224	VV	299	4809	0.15%	0.046%
61	6.240	6.224	6.251	VV	207	2558	0.08%	0.024%
62	6.272	6.251	6.297	VV	219	3916	0.12%	0.037%
63	6.349	6.297	6.381	VV	5015	60244	1.83%	0.571%
64	6.390	6.381	6.413	VV	408	6643	0.20%	0.063%
65	6.433	6.413	6.452	VV	1313	15847	0.48%	0.150%
66	6.467	6.452	6.480	VV	790	8470	0.26%	0.080%
67	6.498	6.480	6.521	VV	2206	25498	0.78%	0.242%
68	6.533	6.521	6.552	VV	800	9201	0.28%	0.087%
69	6.571	6.552	6.595	VV	1180	13640	0.42%	0.129%

rteres

70	6.624	6.595	6.645	VV	268	5492	0.17%	0.052%
71	6.675	6.645	6.700	VV	322	5849	0.18%	0.055%
72	6.719	6.700	6.733	VV	292	4293	0.13%	0.041%
73	6.745	6.733	6.770	VV	302	3958	0.12%	0.037%
74	6.791	6.770	6.821	VV	1099	15079	0.46%	0.143%
75	6.844	6.821	6.878	VV	1699	30676	0.93%	0.291%
76	6.896	6.878	6.938	VV	1162	27785	0.85%	0.263%
77	6.970	6.938	6.994	VV	2107	32274	0.98%	0.306%
78	7.007	6.994	7.030	VV	344	4440	0.14%	0.042%
79	7.053	7.030	7.063	VV	438	5700	0.17%	0.054%
80	7.076	7.063	7.094	VV	560	6246	0.19%	0.059%
81	7.131	7.094	7.164	VV	4738	55121	1.68%	0.522%
82	7.194	7.164	7.224	VV	677	14713	0.45%	0.139%
83	7.238	7.224	7.250	VV	996	10313	0.31%	0.098%
84	7.270	7.250	7.293	VV	1689	23064	0.70%	0.218%
85	7.308	7.293	7.318	VV	464	5347	0.16%	0.051%
86	7.335	7.318	7.348	VV	778	10265	0.31%	0.097%
87	7.362	7.348	7.401	VV	1084	13963	0.42%	0.132%
88	7.430	7.401	7.463	VV	292	6571	0.20%	0.062%
89	7.480	7.463	7.504	VV	228	2665	0.08%	0.025%
90	7.532	7.504	7.564	PV	1930	22006	0.67%	0.208%
91	7.616	7.564	7.658	VV	349	9445	0.29%	0.089%
92	7.676	7.658	7.687	VV	262	2854	0.09%	0.027%
93	7.698	7.687	7.715	VV	290	3977	0.12%	0.038%
94	7.723	7.715	7.744	VV	190	2661	0.08%	0.025%
95	7.750	7.744	7.764	VV	150	1338	0.04%	0.013%
96	7.791	7.764	7.812	VV	300	4545	0.14%	0.043%
97	7.837	7.812	7.871	VV	940	12137	0.37%	0.115%
98	7.893	7.871	7.913	VV	649	8112	0.25%	0.077%
99	7.930	7.913	7.950	VV	353	4756	0.14%	0.045%
100	7.961	7.950	7.981	VV	337	3940	0.12%	0.037%
101	7.996	7.981	8.024	VV	240	4459	0.14%	0.042%
102	8.047	8.024	8.068	VV	631	8675	0.26%	0.082%
103	8.088	8.068	8.111	VV	373	6718	0.20%	0.064%
104	8.141	8.111	8.213	VV	4393	61143	1.86%	0.579%
105	8.238	8.213	8.274	VV	748	18224	0.55%	0.173%
106	8.290	8.274	8.318	VV	617	9574	0.29%	0.091%
107	8.334	8.318	8.358	VV	609	7734	0.24%	0.073%
108	8.374	8.358	8.415	VV	891	9705	0.30%	0.092%
109	8.448	8.415	8.469	PV	1343	20125	0.61%	0.191%
110	8.489	8.469	8.537	VV	845	21244	0.65%	0.201%
111	8.560	8.537	8.574	VV	492	9846	0.30%	0.093%
112	8.599	8.574	8.615	VV	875	15379	0.47%	0.146%

rteres

113	8.628	8.615	8.644	VV	824	10870	0.33%	0.103%
114	8.652	8.644	8.661	VV	583	5490	0.17%	0.052%
115	8.682	8.661	8.720	VV	1343	29411	0.89%	0.279%
116	8.742	8.720	8.774	VV	693	9902	0.30%	0.094%
117	8.793	8.774	8.816	VV	533	7654	0.23%	0.073%
118	8.861	8.816	8.882	VV	2896	40675	1.24%	0.385%
119	8.898	8.882	8.942	VV	1565	34679	1.06%	0.328%
120	8.977	8.942	9.027	VV	3613	65932	2.01%	0.625%
121	9.049	9.027	9.074	VV	1012	12535	0.38%	0.119%
122	9.097	9.074	9.131	VV	617	9049	0.28%	0.086%
123	9.179	9.131	9.224	VV	457	11873	0.36%	0.112%
124	9.263	9.224	9.304	VV	727	18523	0.56%	0.175%
125	9.326	9.304	9.366	VV	1658	24151	0.73%	0.229%
126	9.402	9.366	9.415	VV	260	5340	0.16%	0.051%
127	9.423	9.415	9.443	VV	192	2181	0.07%	0.021%
128	9.467	9.443	9.491	VV	670	8643	0.26%	0.082%
129	9.521	9.491	9.561	VV	598	9520	0.29%	0.090%
130	9.614	9.561	9.625	VV	193	4217	0.13%	0.040%
131	9.660	9.625	9.718	VV	588	10145	0.31%	0.096%
132	9.740	9.718	9.784	VV	2297	30117	0.92%	0.285%
133	9.816	9.784	9.850	VV	523	12887	0.39%	0.122%
134	9.861	9.850	9.869	VV	330	2854	0.09%	0.027%
135	9.885	9.869	9.929	VV	293	6610	0.20%	0.063%
136	10.016	9.929	10.033	PV	441	9900	0.30%	0.094%
137	10.060	10.033	10.078	VV	669	11649	0.35%	0.110%
138	10.130	10.078	10.150	VV	794	20409	0.62%	0.193%
139	10.167	10.150	10.189	VV	736	11882	0.36%	0.113%
140	10.218	10.189	10.238	VV	545	11899	0.36%	0.113%
141	10.252	10.238	10.284	VV	368	8187	0.25%	0.078%
142	10.293	10.284	10.311	VV	257	3411	0.10%	0.032%
143	10.338	10.311	10.351	VV	734	11327	0.34%	0.107%
144	10.373	10.351	10.391	VV	686	13434	0.41%	0.127%
145	10.415	10.391	10.450	VV	857	21047	0.64%	0.199%
146	10.477	10.450	10.512	VV	1294	28145	0.86%	0.267%
147	10.532	10.512	10.548	VV	761	12134	0.37%	0.115%
148	10.563	10.548	10.581	VV	776	12630	0.38%	0.120%
149	10.604	10.581	10.677	VV	2068	46957	1.43%	0.445%
150	10.691	10.677	10.712	VV	607	9340	0.28%	0.088%
151	10.728	10.712	10.741	VV	360	5058	0.15%	0.048%
152	10.761	10.741	10.778	VV	466	7192	0.22%	0.068%
153	10.795	10.778	10.827	VV	616	12864	0.39%	0.122%
154	10.844	10.827	10.858	VV	540	7867	0.24%	0.075%
155	10.872	10.858	10.880	VV	570	6756	0.21%	0.064%

rteres

156	10.901	10.880	10.922	VV	1174	18576	0.57%	0.176%
157	10.930	10.922	10.951	VV	491	5922	0.18%	0.056%
158	10.981	10.951	11.007	VV	522	10384	0.32%	0.098%
159	11.032	11.007	11.077	VV	265	6990	0.21%	0.066%
160	11.109	11.077	11.147	VV	1535	23625	0.72%	0.224%
161	11.178	11.147	11.208	VV	2532	34451	1.05%	0.326%
162	11.272	11.208	11.317	VV	507	20269	0.62%	0.192%
163	11.335	11.317	11.351	PV	366	3881	0.12%	0.037%
164	11.366	11.351	11.383	VV	211	3165	0.10%	0.030%
165	11.407	11.383	11.448	VV	235	5585	0.17%	0.053%
166	11.534	11.448	11.551	VV	545	22802	0.69%	0.216%
167	11.567	11.551	11.618	VV	874	18093	0.55%	0.171%
168	11.644	11.618	11.678	VV	549	13133	0.40%	0.124%
169	11.778	11.678	11.787	VV	449	14934	0.45%	0.141%
170	11.839	11.787	11.872	VV	1137	36437	1.11%	0.345%
171	11.890	11.872	11.917	VV	640	12677	0.39%	0.120%
172	11.937	11.917	11.958	VV	415	8377	0.25%	0.079%
173	11.981	11.958	12.027	VV	668	18914	0.58%	0.179%
174	12.065	12.027	12.105	VV	1587	40091	1.22%	0.380%
175	12.124	12.105	12.154	VV	725	14602	0.44%	0.138%
176	12.168	12.154	12.206	VV	480	11929	0.36%	0.113%
177	12.221	12.206	12.233	VV	450	5965	0.18%	0.057%
178	12.255	12.233	12.284	VV	618	15418	0.47%	0.146%
179	12.347	12.284	12.395	VV	1825	50521	1.54%	0.479%
180	12.424	12.395	12.454	VV	1277	18831	0.57%	0.178%
181	12.486	12.454	12.525	VV	2814	38809	1.18%	0.368%
182	12.534	12.525	12.613	VV	269	10549	0.32%	0.100%
183	12.620	12.613	12.651	VV	187	3342	0.10%	0.032%
184	12.655	12.651	12.671	VV	154	1135	0.03%	0.011%
185	12.681	12.671	12.701	VV	91	873	0.03%	0.008%
186	12.755	12.701	12.768	PV	364	7908	0.24%	0.075%
187	12.771	12.768	12.793	VV	355	3459	0.11%	0.033%
188	12.806	12.793	12.824	VV	258	3235	0.10%	0.031%
189	12.850	12.824	12.874	VV	546	8504	0.26%	0.081%
190	12.929	12.874	13.068	VV	268897	3286696	100.00%	31.133%
191	13.095	13.068	13.133	VV	824	24475	0.74%	0.232%
192	13.146	13.133	13.189	VV	701	18629	0.57%	0.176%
193	13.215	13.189	13.269	VV	485	16554	0.50%	0.157%
194	13.302	13.269	13.334	VV	654	19103	0.58%	0.181%
195	13.376	13.334	13.413	VV	845	27737	0.84%	0.263%
196	13.429	13.413	13.457	VV	402	8134	0.25%	0.077%
197	13.478	13.457	13.513	VV	371	9910	0.30%	0.094%
198	13.553	13.513	13.576	VV	535	14198	0.43%	0.134%
199	13.628	13.576	13.656	VV	1257	26613	0.81%	0.252%

rteres

200	13.682	13.656	13.724	VV	2457	38035	1.16%	0.360%
201	13.740	13.724	13.751	VV	240	3100	0.09%	0.029%
202	13.759	13.751	13.771	VV	211	1769	0.05%	0.017%
203	13.776	13.771	13.808	VV	176	2019	0.06%	0.019%
204	13.819	13.808	13.884	VV	74	1598	0.05%	0.015%
205	13.939	13.884	13.963	VV	247	8297	0.25%	0.079%
206	13.975	13.963	14.001	VV	236	3588	0.11%	0.034%
207	14.017	14.001	14.041	VV	257	3913	0.12%	0.037%
208	14.048	14.041	14.059	VV	122	986	0.03%	0.009%
209	14.118	14.059	14.161	VV	972	23922	0.73%	0.227%
210	14.171	14.161	14.194	VV	402	6297	0.19%	0.060%
211	14.210	14.194	14.222	VV	390	5521	0.17%	0.052%
212	14.243	14.222	14.284	VV	590	12796	0.39%	0.121%
213	14.338	14.284	14.356	VV	458	13640	0.42%	0.129%
214	14.384	14.356	14.432	VV	588	18550	0.56%	0.176%
215	14.443	14.432	14.471	VV	409	7314	0.22%	0.069%
216	14.500	14.471	14.519	VV	490	9782	0.30%	0.093%
217	14.558	14.519	14.578	VV	565	16555	0.50%	0.157%
218	14.592	14.578	14.674	VV	647	20003	0.61%	0.189%
219	14.740	14.674	14.759	VV	1117	24022	0.73%	0.228%
220	14.784	14.759	14.854	VV	2637	49869	1.52%	0.472%
221	14.867	14.854	14.924	VV	239	5402	0.16%	0.051%
222	14.954	14.924	15.047	PV	300	12353	0.38%	0.117%
223	15.091	15.047	15.128	VV	196	4204	0.13%	0.040%
224	15.136	15.128	15.148	VV	90	845	0.03%	0.008%
225	15.165	15.148	15.181	VV	133	2113	0.06%	0.020%
226	15.213	15.181	15.235	VV	257	5591	0.17%	0.053%
227	15.303	15.235	15.381	VV	984	26727	0.81%	0.253%
228	15.389	15.381	15.411	VV	178	2553	0.08%	0.024%
229	15.442	15.411	15.461	VV	317	7151	0.22%	0.068%
230	15.481	15.461	15.568	VV	390	16185	0.49%	0.153%
231	15.611	15.568	15.637	VV	453	13718	0.42%	0.130%
232	15.658	15.637	15.731	VV	492	15935	0.48%	0.151%
233	15.763	15.731	15.777	VV	894	12197	0.37%	0.116%
234	15.803	15.777	15.951	VV	2464	52099	1.59%	0.494%
235	16.009	15.951	16.070	VV	180	7217	0.22%	0.068%
236	16.085	16.070	16.098	PV	122	1294	0.04%	0.012%
237	16.120	16.098	16.150	VV	142	2845	0.09%	0.027%
238	16.160	16.150	16.184	VV	124	1634	0.05%	0.015%
239	16.191	16.184	16.208	VV	134	681	0.02%	0.006%
240	16.215	16.208	16.220	PV	66	338	0.01%	0.003%
241	16.284	16.220	16.315	VV	1053	20075	0.61%	0.190%
242	16.360	16.315	16.391	VV	288	8196	0.25%	0.078%

rteres

243	16.409	16.391	16.420	VV	253	2501	0.08%	0.024%
244	16.445	16.420	16.472	VV	264	6239	0.19%	0.059%
245	16.504	16.472	16.527	VV	282	7001	0.21%	0.066%
246	16.538	16.527	16.551	VV	219	2727	0.08%	0.026%
247	16.581	16.551	16.616	VV	301	8269	0.25%	0.078%
248	16.638	16.616	16.664	VV	312	7921	0.24%	0.075%
249	16.672	16.664	16.691	VV	366	4873	0.15%	0.046%
250	16.750	16.691	16.781	VV	2221	46821	1.42%	0.444%
251	16.796	16.781	16.808	VV	285	3797	0.12%	0.036%
252	16.822	16.808	16.836	VV	220	3132	0.10%	0.030%
253	16.853	16.836	16.905	VV	240	6359	0.19%	0.060%
254	16.915	16.905	16.923	VV	210	1394	0.04%	0.013%
255	16.932	16.923	16.954	VV	136	1965	0.06%	0.019%
256	16.957	16.954	16.972	VV	150	676	0.02%	0.006%
257	16.991	16.972	17.004	VV	105	1111	0.03%	0.011%
258	17.201	17.004	17.257	PV	1396	34788	1.06%	0.330%
259	17.279	17.257	17.294	VV	242	3191	0.10%	0.030%
260	17.304	17.294	17.321	VV	241	3035	0.09%	0.029%
261	17.342	17.321	17.396	VV	213	6472	0.20%	0.061%
262	17.418	17.396	17.431	VV	261	3725	0.11%	0.035%
263	17.463	17.431	17.491	VV	348	8517	0.26%	0.081%
264	17.635	17.491	17.699	VV	2493	67552	2.06%	0.640%
265	17.736	17.699	17.747	VV	257	5626	0.17%	0.053%
266	17.775	17.747	17.804	VV	317	8555	0.26%	0.081%
267	17.818	17.804	17.838	VV	185	2313	0.07%	0.022%
268	17.846	17.838	17.881	VV	148	1630	0.05%	0.015%
269	17.926	17.881	17.941	PV	164	3619	0.11%	0.034%
270	18.059	17.941	18.126	VV	1667	30294	0.92%	0.287%
271	18.147	18.126	18.157	VV	156	1857	0.06%	0.018%
272	18.189	18.157	18.198	VV	148	2526	0.08%	0.024%
273	18.210	18.198	18.224	VV	171	1319	0.04%	0.012%
274	18.322	18.224	18.331	VV	294	8086	0.25%	0.077%
275	18.339	18.331	18.384	VV	238	4777	0.15%	0.045%
276	18.467	18.384	18.539	VV	2200	49615	1.51%	0.470%
277	18.606	18.539	18.624	VV	239	6379	0.19%	0.060%
278	18.730	18.624	18.747	VV	137	6569	0.20%	0.062%
279	18.865	18.747	18.896	PV	1267	24007	0.73%	0.227%
280	19.076	18.896	19.086	VV	401	38165	1.16%	0.362%
281	19.158	19.086	19.168	VV	589	23745	0.72%	0.225%
282	19.250	19.168	19.291	VV	2214	74006	2.25%	0.701%
283	19.298	19.291	19.317	VV	642	9450	0.29%	0.090%
284	19.325	19.317	19.334	VV	638	5656	0.17%	0.054%
285	19.367	19.334	19.391	VV	620	18752	0.57%	0.178%

rteres

286	19.486	19.391	19.514	VV	708	39394	1.20%	0.373%
287	19.558	19.514	19.574	VV	656	20569	0.63%	0.195%
288	19.625	19.574	19.647	VV	1267	34851	1.06%	0.330%
289	19.831	19.647	19.936	VV	6993	477634	14.53%	4.524%
290	19.987	19.936	20.014	VV	3290	117609	3.58%	1.114%
291	20.052	20.014	20.061	VV	2401	65740	2.00%	0.623%
292	20.345	20.061	20.368	VV	4072	567962	17.28%	5.380%
293	20.455	20.368	20.467	VV	3809	217338	6.61%	2.059%
294	20.520	20.467	20.538	VV	4143	167603	5.10%	1.588%
295	20.597	20.538	20.634	VV	3944	224369	6.83%	2.125%
296	20.709	20.634	20.758	VV	4616	299311	9.11%	2.835%
297	20.797	20.758	20.902	VV	3720	300657	9.15%	2.848%
298	20.920	20.902	20.964	VV	3031	109000	3.32%	1.033%
299	20.975	20.964	20.987	VV	2782	38049	1.16%	0.360%
300	21.048	20.987	21.058	VV	2764	116687	3.55%	1.105%
301	21.084	21.058	21.148	VV	3372	146989	4.47%	1.392%
302	21.158	21.148	21.188	VV	2595	57893	1.76%	0.548%
303	21.195	21.188	21.241	VV	2291	69146	2.10%	0.655%
304	21.251	21.241	21.268	VV	1997	31494	0.96%	0.298%
305	21.344	21.268	21.353	VV	2079	103815	3.16%	0.983%
306	21.372	21.353	21.383	VV	2007	35176	1.07%	0.333%
307	21.426	21.383	21.444	VV	1897	68905	2.10%	0.653%
308	21.452	21.444	21.461	VV	1883	18085	0.55%	0.171%
309	21.470	21.461	21.480	VV	1850	20826	0.63%	0.197%
310	21.494	21.480	21.524	VV	1721	44311	1.35%	0.420%
311	21.597	21.524	21.660	VV	1845	125099	3.81%	1.185%
312	21.671	21.660	21.731	VV	1213	42904	1.31%	0.406%
313	21.749	21.731	21.797	VV	915	32475	0.99%	0.308%
314	21.808	21.797	21.839	VV	794	17542	0.53%	0.166%
315	21.867	21.839	21.928	VV	595	23641	0.72%	0.224%
316	21.945	21.928	21.984	VV	261	5218	0.16%	0.049%

Sum of corrected areas: 10556793

Aliphatic EPH 102324.M Sat Nov 09 02:16:11 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048680.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 20:33
Operator : YP/AJ
Sample : P4718-02
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-307-SB02

Integration File: sample.E
Quant Time: Nov 09 01:08:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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...	7.369	7093904	46.738 ug/ml
Spiked Amount 50.000		Recovery =	93.48%
6) S 2-Flurobiphenyl (SURR)	8.219	4606055	46.909 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	93.82%
11) S ortho-Terphenyl (SURR)	11.253	4649411	27.295 ug/ml
Spiked Amount 50.000		Recovery =	54.59%
Target Compounds			

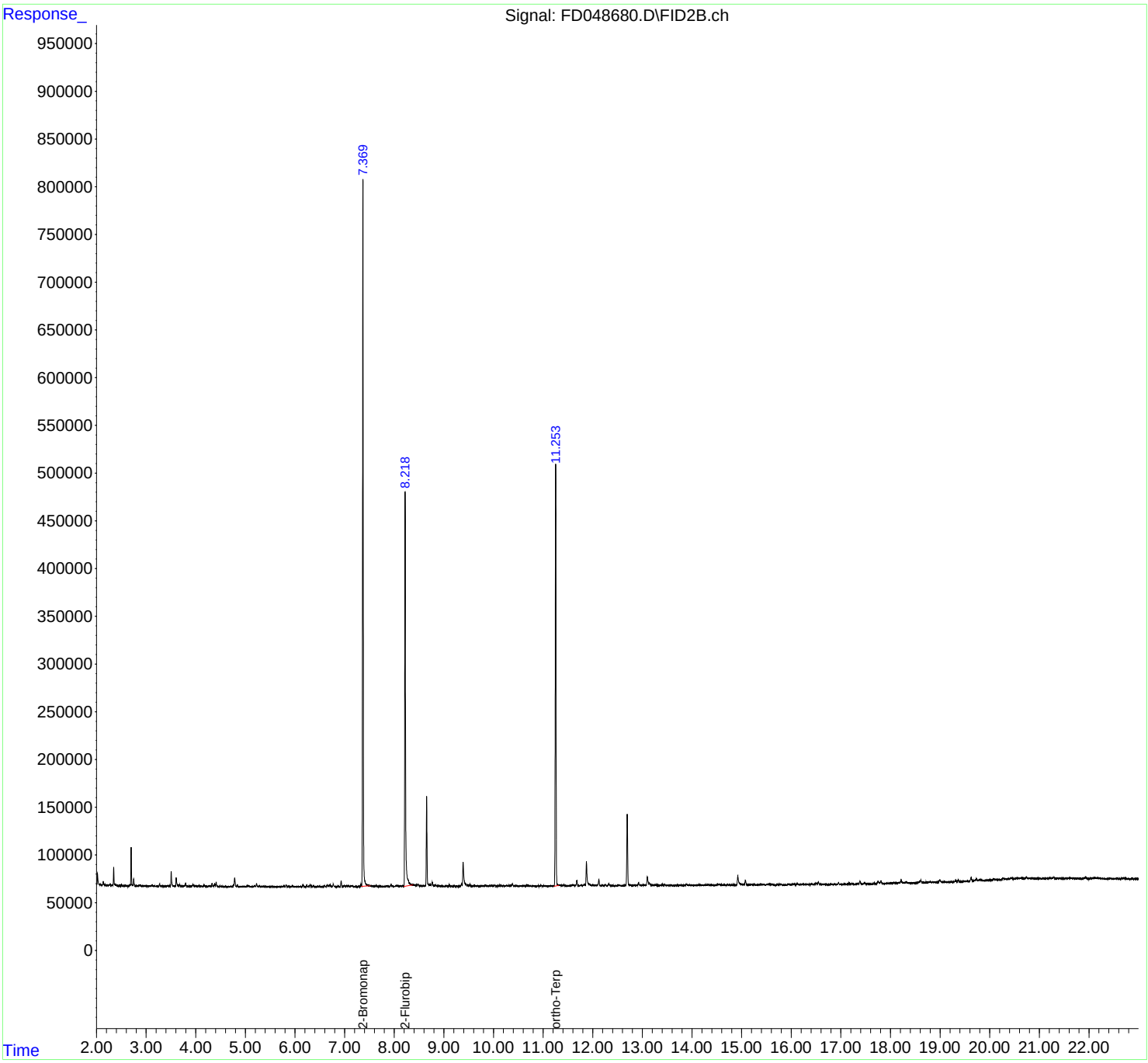
(f)=RT Delta > 1/2 Window (m)=manual int.

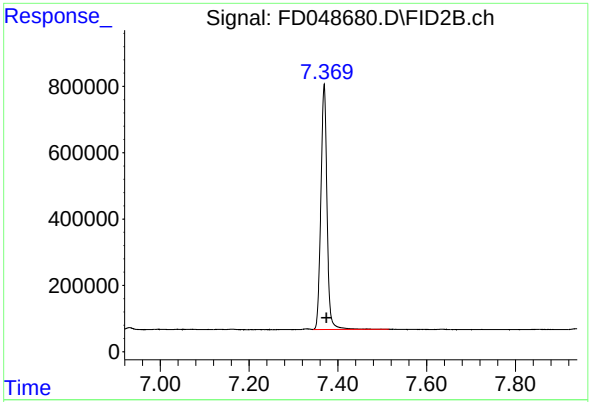
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048680.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 20:33
Operator : YP/AJ
Sample : P4718-02
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-307-SB02

Integration File: sample.E
Quant Time: Nov 09 01:08:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

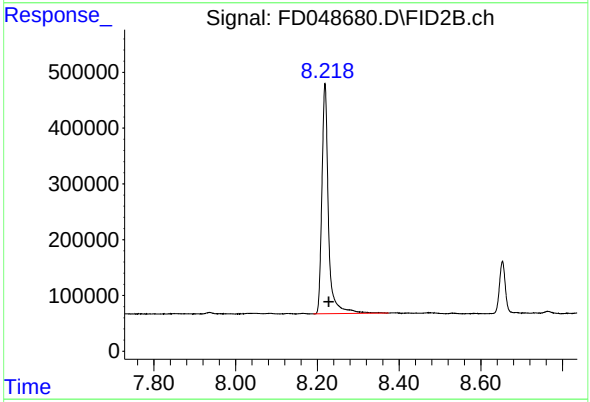




#4 2-Bromonaphthalene (SURR)

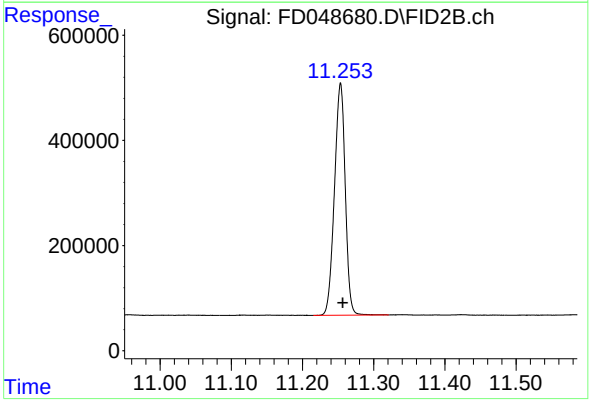
R.T.: 7.369 min
Delta R.T.: -0.006 min
Response: 7093904
Conc: 46.74 ug/ml

Instrument :
FID_D
ClientSampleId :
WB-307-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.009 min
Response: 4606055
Conc: 46.91 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 4649411
Conc: 27.29 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048680.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 20:33
Sample : P4718-02
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.062	4.042	4.086	BV	634	8110	0.11%	0.032%
2	4.093	4.086	4.117	VV	215	3530	0.05%	0.014%
3	4.124	4.117	4.133	VV	249	1543	0.02%	0.006%
4	4.166	4.133	4.208	PV	2331	30095	0.42%	0.121%
5	4.218	4.208	4.254	VV	387	5800	0.08%	0.023%
6	4.275	4.254	4.305	VV	807	13294	0.19%	0.053%
7	4.328	4.305	4.352	VV	3472	42152	0.59%	0.169%
8	4.383	4.352	4.397	VV	3125	38615	0.54%	0.155%
9	4.412	4.397	4.449	VV	4782	51543	0.72%	0.206%
10	4.458	4.449	4.473	VV	296	3051	0.04%	0.012%
11	4.487	4.473	4.508	VV	787	9627	0.13%	0.039%
12	4.525	4.508	4.568	VV	899	11483	0.16%	0.046%
13	4.574	4.568	4.581	PV	200	1018	0.01%	0.004%
14	4.598	4.581	4.621	VV	701	9636	0.14%	0.039%
15	4.624	4.621	4.641	VV	235	1475	0.02%	0.006%
16	4.658	4.641	4.666	PV	242	1619	0.02%	0.006%
17	4.673	4.666	4.684	VV	218	1695	0.02%	0.007%
18	4.705	4.684	4.733	VV	871	10476	0.15%	0.042%
19	4.784	4.733	4.819	VV	9502	136869	1.92%	0.548%
20	4.840	4.819	4.867	VV	2109	25044	0.35%	0.100%
21	4.870	4.867	4.888	VV	262	2029	0.03%	0.008%
22	4.900	4.888	4.913	VV	331	3272	0.05%	0.013%
23	4.922	4.913	4.941	VV	224	3075	0.04%	0.012%
24	4.947	4.941	4.962	VV	255	2148	0.03%	0.009%
25	4.977	4.962	4.999	VV	791	7377	0.10%	0.030%
26	5.010	4.999	5.019	VV	230	1426	0.02%	0.006%
27	5.037	5.019	5.084	VV	1415	32810	0.46%	0.131%
28	5.088	5.084	5.114	VV	552	6890	0.10%	0.028%
29	5.119	5.114	5.124	VV	219	1123	0.02%	0.004%
30	5.125	5.124	5.135	VV	285	1395	0.02%	0.006%
31	5.155	5.135	5.172	VV	571	8256	0.12%	0.033%
32	5.190	5.172	5.208	VV	1231	15856	0.22%	0.064%
33	5.225	5.208	5.263	VV	3584	41916	0.59%	0.168%
34	5.283	5.263	5.324	VV	1014	16002	0.22%	0.064%
35	5.343	5.324	5.357	VV	610	8502	0.12%	0.034%
36	5.362	5.357	5.365	VV	578	2435	0.03%	0.010%

rteres

37	5.369	5.365	5.395	VV	608	6411	0.09%	0.026%
38	5.398	5.395	5.430	VV	358	4701	0.07%	0.019%
39	5.440	5.430	5.459	VV	398	4981	0.07%	0.020%
40	5.477	5.459	5.504	VV	706	10093	0.14%	0.040%
41	5.508	5.504	5.513	VV	320	1649	0.02%	0.007%
42	5.533	5.513	5.548	VV	519	7058	0.10%	0.028%
43	5.553	5.548	5.565	VV	500	2445	0.03%	0.010%
44	5.590	5.577	5.619	VV	156	2208	0.03%	0.009%
45	5.640	5.619	5.651	PV	266	2858	0.04%	0.011%
46	5.670	5.657	5.684	VV	303	2827	0.04%	0.011%
47	5.697	5.684	5.701	VV	361	2622	0.04%	0.011%
48	5.707	5.701	5.722	VV	469	3803	0.05%	0.015%
49	5.734	5.722	5.752	VV	501	6298	0.09%	0.025%
50	5.781	5.752	5.804	VV	1164	20854	0.29%	0.084%
51	5.820	5.804	5.875	VV	2167	33508	0.47%	0.134%
52	5.885	5.875	5.902	VV	677	7296	0.10%	0.029%
53	5.914	5.902	5.919	VV	354	2353	0.03%	0.009%
54	5.950	5.919	5.989	VV	1071	21044	0.29%	0.084%
55	5.994	5.989	6.000	VV	258	1267	0.02%	0.005%
56	6.007	6.000	6.024	VV	389	2563	0.04%	0.010%
57	6.029	6.024	6.037	VV	176	1115	0.02%	0.004%
58	6.060	6.037	6.065	VV	558	6909	0.10%	0.028%
59	6.070	6.065	6.090	VV	499	5061	0.07%	0.020%
60	6.097	6.090	6.127	VV	291	4558	0.06%	0.018%
61	6.130	6.127	6.136	VV	253	1193	0.02%	0.005%
62	6.160	6.136	6.209	VV	2856	39552	0.55%	0.158%
63	6.214	6.209	6.219	VV	387	1447	0.02%	0.006%
64	6.238	6.219	6.258	VV	1497	17573	0.25%	0.070%
65	6.276	6.258	6.288	VV	1087	10760	0.15%	0.043%
66	6.306	6.288	6.329	VV	2778	33296	0.47%	0.133%
67	6.337	6.329	6.358	VV	896	9661	0.14%	0.039%
68	6.377	6.358	6.418	VV	1634	18977	0.27%	0.076%
69	6.424	6.418	6.441	VV	207	1921	0.03%	0.008%
70	6.452	6.441	6.470	VV	309	4104	0.06%	0.016%
71	6.480	6.470	6.494	VV	328	3896	0.05%	0.016%
72	6.497	6.494	6.506	VV	278	1472	0.02%	0.006%
73	6.519	6.506	6.533	VV	382	4120	0.06%	0.017%
74	6.537	6.533	6.556	VV	336	3485	0.05%	0.014%
75	6.562	6.556	6.576	VV	557	3565	0.05%	0.014%
76	6.593	6.576	6.619	VV	1494	19380	0.27%	0.078%
77	6.647	6.619	6.684	VV	1950	46353	0.65%	0.186%
78	6.695	6.684	6.704	VV	1672	16358	0.23%	0.066%
79	6.713	6.704	6.743	VV	1707	22473	0.31%	0.090%
80	6.772	6.743	6.795	VV	3029	41132	0.58%	0.165%
81	6.804	6.795	6.814	VV	460	4170	0.06%	0.017%
82	6.818	6.814	6.835	VV	411	3041	0.04%	0.012%
83	6.844	6.835	6.853	PV	420	2433	0.03%	0.010%
84	6.873	6.853	6.902	VV	866	13640	0.19%	0.055%
85	6.931	6.902	6.963	VV	6335	72564	1.02%	0.291%
86	6.994	6.963	7.022	VV	1319	25779	0.36%	0.103%
87	7.039	7.022	7.051	VV	1292	13474	0.19%	0.054%
88	7.072	7.051	7.093	VV	1152	20406	0.29%	0.082%
89	7.108	7.093	7.117	VV	665	6690	0.09%	0.027%

rteres

90	7.135	7.117	7.148	VV	1099	14445	0.20%	0.058%
91	7.162	7.148	7.182	VV	1575	17427	0.24%	0.070%
92	7.185	7.182	7.202	VV	424	2329	0.03%	0.009%
93	7.220	7.202	7.249	VV	402	6764	0.09%	0.027%
94	7.281	7.260	7.286	VV	503	4631	0.06%	0.019%
95	7.288	7.286	7.299	VV	434	2270	0.03%	0.009%
96	7.330	7.299	7.343	VV	2633	30662	0.43%	0.123%
97	7.369	7.343	7.463	VV	737077	7136534	100.00%	28.590%
98	7.470	7.463	7.492	VV	1732	26600	0.37%	0.107%
99	7.497	7.492	7.542	VV	1572	36363	0.51%	0.146%
100	7.551	7.542	7.559	VV	1011	9142	0.13%	0.037%
101	7.565	7.559	7.611	VV	897	21989	0.31%	0.088%
102	7.636	7.611	7.667	VV	1317	21293	0.30%	0.085%
103	7.692	7.667	7.702	VV	568	7366	0.10%	0.030%
104	7.711	7.702	7.715	VV	462	2232	0.03%	0.009%
105	7.725	7.715	7.751	VV	576	8959	0.13%	0.036%
106	7.767	7.751	7.794	VV	432	7999	0.11%	0.032%
107	7.799	7.794	7.809	VV	399	2700	0.04%	0.011%
108	7.822	7.809	7.831	VV	364	3351	0.05%	0.013%
109	7.850	7.831	7.870	VV	851	13985	0.20%	0.056%
110	7.875	7.870	7.897	VV	607	7781	0.11%	0.031%
111	7.907	7.897	7.917	VV	425	4435	0.06%	0.018%
112	7.936	7.917	7.959	VV	2923	35564	0.50%	0.142%
113	7.966	7.959	7.984	VV	660	8576	0.12%	0.034%
114	7.988	7.984	8.007	VV	605	4827	0.07%	0.019%
115	8.030	8.007	8.037	VV	1246	13596	0.19%	0.054%
116	8.049	8.037	8.067	VV	1320	19646	0.28%	0.079%
117	8.085	8.067	8.115	VV	1235	21049	0.29%	0.084%
118	8.129	8.115	8.149	VV	983	13236	0.19%	0.053%
119	8.165	8.149	8.182	VV	1289	14378	0.20%	0.058%
120	8.185	8.182	8.194	VV	558	2800	0.04%	0.011%
121	8.219	8.194	8.377	VV	413392	4734105	66.34%	18.965%
122	8.392	8.377	8.408	VV	2202	35962	0.50%	0.144%
123	8.422	8.408	8.436	VV	1951	27906	0.39%	0.112%
124	8.442	8.436	8.452	VV	1719	15939	0.22%	0.064%
125	8.475	8.452	8.515	VV	2300	59911	0.84%	0.240%
126	8.533	8.515	8.560	VV	1383	24579	0.34%	0.098%
127	8.585	8.560	8.610	VV	1146	23491	0.33%	0.094%
128	8.653	8.610	8.701	VV	94931	987640	13.84%	3.957%
129	8.707	8.701	8.720	VV	1957	20628	0.29%	0.083%
130	8.733	8.720	8.744	VV	2039	25259	0.35%	0.101%
131	8.764	8.744	8.799	VV	4856	80490	1.13%	0.322%
132	8.814	8.799	8.825	VV	1391	17420	0.24%	0.070%
133	8.836	8.825	8.865	VV	1816	25975	0.36%	0.104%
134	8.886	8.865	8.914	VV	1181	20741	0.29%	0.083%
135	8.925	8.914	8.935	VV	629	7466	0.10%	0.030%
136	8.944	8.935	8.955	VV	768	7797	0.11%	0.031%
137	8.960	8.955	8.964	VV	730	3698	0.05%	0.015%
138	8.968	8.964	9.012	VV	781	13437	0.19%	0.054%
139	9.033	9.012	9.040	VV	878	9948	0.14%	0.040%
140	9.049	9.040	9.080	VV	846	13657	0.19%	0.055%
141	9.085	9.080	9.090	VV	365	1804	0.03%	0.007%

rteres

142	9.111	9.090	9.139	VV	1990	25225	0.35%	0.101%
143	9.143	9.139	9.160	VV	386	3837	0.05%	0.015%
144	9.165	9.160	9.170	VV	337	1544	0.02%	0.006%
145	9.190	9.170	9.210	VV	581	10729	0.15%	0.043%
146	9.216	9.210	9.237	VV	499	4511	0.06%	0.018%
147	9.253	9.237	9.276	PV	873	11887	0.17%	0.048%
148	9.280	9.276	9.290	VV	336	2166	0.03%	0.009%
149	9.296	9.290	9.300	VV	343	2032	0.03%	0.008%
150	9.318	9.300	9.326	VV	536	6938	0.10%	0.028%
151	9.355	9.326	9.369	VV	3237	37816	0.53%	0.151%
152	9.388	9.369	9.509	VV	25736	463698	6.50%	1.858%
153	9.529	9.509	9.566	VV	1842	36349	0.51%	0.146%
154	9.599	9.566	9.617	VV	998	22902	0.32%	0.092%
155	9.621	9.617	9.650	VV	834	12762	0.18%	0.051%
156	9.670	9.650	9.715	VV	712	18968	0.27%	0.076%
157	9.730	9.715	9.739	VV	451	4544	0.06%	0.018%
158	9.754	9.739	9.758	VV	561	4935	0.07%	0.020%
159	9.775	9.758	9.784	VV	669	8463	0.12%	0.034%
160	9.796	9.784	9.813	VV	677	10082	0.14%	0.040%
161	9.837	9.813	9.865	VV	1117	24587	0.34%	0.098%
162	9.873	9.865	9.884	VV	734	6813	0.10%	0.027%
163	9.895	9.884	9.900	VV	684	5971	0.08%	0.024%
164	9.917	9.900	9.934	VV	981	15927	0.22%	0.064%
165	9.948	9.934	9.973	VV	1128	19687	0.28%	0.079%
166	9.979	9.973	9.992	VV	805	7826	0.11%	0.031%
167	9.997	9.992	10.012	VV	688	7256	0.10%	0.029%
168	10.027	10.012	10.061	VV	2014	25123	0.35%	0.101%
169	10.065	10.061	10.072	VV	440	2350	0.03%	0.009%
170	10.084	10.072	10.089	VV	416	3391	0.05%	0.014%
171	10.122	10.089	10.135	VV	1312	21924	0.31%	0.088%
172	10.146	10.135	10.178	VV	1177	20819	0.29%	0.083%
173	10.195	10.178	10.219	VV	1168	17337	0.24%	0.069%
174	10.266	10.219	10.297	VV	1055	34493	0.48%	0.138%
175	10.308	10.297	10.325	VV	919	11650	0.16%	0.047%
176	10.343	10.325	10.350	VV	938	10595	0.15%	0.042%
177	10.381	10.350	10.410	VV	2751	49629	0.70%	0.199%
178	10.418	10.410	10.426	VV	703	5930	0.08%	0.024%
179	10.431	10.426	10.438	VV	645	3978	0.06%	0.016%
180	10.442	10.438	10.446	VV	544	2469	0.03%	0.010%
181	10.449	10.446	10.453	VV	577	1896	0.03%	0.008%
182	10.455	10.453	10.459	VV	462	1665	0.02%	0.007%
183	10.469	10.459	10.494	VV	636	10709	0.15%	0.043%
184	10.503	10.494	10.509	VV	499	3223	0.05%	0.013%
185	10.512	10.509	10.521	VV	429	2453	0.03%	0.010%
186	10.526	10.521	10.530	VV	393	1749	0.02%	0.007%
187	10.541	10.530	10.556	VV	665	7815	0.11%	0.031%
188	10.569	10.556	10.581	VV	738	8423	0.12%	0.034%
189	10.590	10.581	10.625	VV	763	14998	0.21%	0.060%
190	10.628	10.625	10.635	VV	662	3359	0.05%	0.013%
191	10.648	10.635	10.660	VV	719	9411	0.13%	0.038%
192	10.678	10.660	10.697	VV	1488	22336	0.31%	0.089%
193	10.716	10.697	10.731	VV	701	10213	0.14%	0.041%
194	10.747	10.731	10.780	VV	615	10354	0.15%	0.041%

rteres

195	10.795	10.780	10.802	VV	423	3635	0.05%	0.015%
196	10.807	10.802	10.822	VV	418	3816	0.05%	0.015%
197	10.828	10.822	10.837	VV	272	1818	0.03%	0.007%
198	10.842	10.837	10.864	VV	376	3423	0.05%	0.014%
199	10.891	10.864	10.909	VV	706	10158	0.14%	0.041%
200	10.914	10.909	10.926	VV	335	2486	0.03%	0.010%
201	10.958	10.926	10.988	VV	1323	24114	0.34%	0.097%
202	10.994	10.988	10.999	VV	424	2191	0.03%	0.009%
203	11.003	10.999	11.009	VV	460	2652	0.04%	0.011%
204	11.012	11.009	11.022	VV	539	3121	0.04%	0.013%
205	11.039	11.022	11.067	VV	705	11886	0.17%	0.048%
206	11.072	11.067	11.092	VV	319	2481	0.03%	0.010%
207	11.118	11.092	11.137	VV	725	9593	0.13%	0.038%
208	11.154	11.137	11.190	VV	651	13003	0.18%	0.052%
209	11.200	11.190	11.215	VV	381	3596	0.05%	0.014%
210	11.254	11.215	11.322	PV	442680	4684552	65.64%	18.767%
211	11.340	11.322	11.369	VV	1402	30047	0.42%	0.120%
212	11.371	11.369	11.377	VV	881	4124	0.06%	0.017%
213	11.387	11.377	11.398	VV	951	9833	0.14%	0.039%
214	11.403	11.398	11.406	VV	687	3556	0.05%	0.014%
215	11.422	11.406	11.452	VV	1433	24533	0.34%	0.098%
216	11.456	11.452	11.461	VV	619	2656	0.04%	0.011%
217	11.468	11.461	11.497	VV	696	9934	0.14%	0.040%
218	11.510	11.497	11.515	VV	567	4927	0.07%	0.020%
219	11.524	11.515	11.534	VV	668	5951	0.08%	0.024%
220	11.543	11.534	11.552	VV	678	6422	0.09%	0.026%
221	11.583	11.552	11.594	VV	1253	22225	0.31%	0.089%
222	11.598	11.594	11.603	VV	1160	6566	0.09%	0.026%
223	11.612	11.603	11.636	VV	1419	19647	0.28%	0.079%
224	11.679	11.636	11.705	VV	5970	88888	1.25%	0.356%
225	11.724	11.705	11.742	VV	825	15178	0.21%	0.061%
226	11.756	11.742	11.764	VV	987	11364	0.16%	0.046%
227	11.778	11.764	11.797	VV	1136	16557	0.23%	0.066%
228	11.834	11.797	11.852	VV	2107	44687	0.63%	0.179%
229	11.873	11.852	11.974	VV	25701	416730	5.84%	1.669%
230	11.991	11.974	12.000	VV	1083	15141	0.21%	0.061%
231	12.023	12.000	12.057	VV	1164	31371	0.44%	0.126%
232	12.064	12.057	12.075	VV	852	8136	0.11%	0.033%
233	12.098	12.075	12.102	VV	1390	17854	0.25%	0.072%
234	12.123	12.102	12.173	VV	6748	99797	1.40%	0.400%
235	12.195	12.173	12.218	VV	1301	20663	0.29%	0.083%
236	12.224	12.218	12.227	VV	364	1760	0.02%	0.007%
237	12.257	12.227	12.286	VV	1694	27960	0.39%	0.112%
238	12.323	12.286	12.374	VV	2365	50397	0.71%	0.202%
239	12.397	12.374	12.422	VV	660	11770	0.16%	0.047%
240	12.427	12.422	12.435	VV	313	1816	0.03%	0.007%
241	12.452	12.442	12.466	VV	301	3579	0.05%	0.014%
242	12.472	12.466	12.490	VV	449	4902	0.07%	0.020%
243	12.508	12.490	12.560	VV	911	26260	0.37%	0.105%
244	12.575	12.560	12.580	VV	386	3904	0.05%	0.016%
245	12.586	12.580	12.600	VV	400	3431	0.05%	0.014%
246	12.621	12.600	12.633	VV	685	9509	0.13%	0.038%

rteres

247	12.694	12.633	12.737	VV	75374	953706	13.36%	3.821%
248	12.747	12.737	12.802	VV	1133	27745	0.39%	0.111%
249	12.808	12.802	12.815	VV	485	2478	0.03%	0.010%
250	12.829	12.815	12.834	VV	422	4273	0.06%	0.017%
251	12.859	12.834	12.864	VV	723	10586	0.15%	0.042%
252	12.867	12.864	12.878	VV	706	4914	0.07%	0.020%
253	12.882	12.878	12.899	VV	643	5948	0.08%	0.024%
254	12.924	12.899	12.951	VV	3658	52654	0.74%	0.211%
255	12.977	12.951	12.988	VV	759	13960	0.20%	0.056%
256	13.001	12.988	13.020	VV	775	13318	0.19%	0.053%
257	13.025	13.020	13.045	VV	675	8108	0.11%	0.032%
258	13.052	13.045	13.065	VV	943	9367	0.13%	0.038%
259	13.071	13.065	13.078	VV	821	5769	0.08%	0.023%
260	13.101	13.078	13.179	VV	9609	203564	2.85%	0.815%
261	13.181	13.179	13.193	VV	879	7392	0.10%	0.030%
262	13.201	13.193	13.227	VV	860	13806	0.19%	0.055%
263	13.240	13.227	13.255	VV	688	10624	0.15%	0.043%
264	13.267	13.255	13.308	VV	856	21103	0.30%	0.085%
265	13.314	13.308	13.337	VV	720	9133	0.13%	0.037%
266	13.359	13.337	13.368	VV	595	8338	0.12%	0.033%
267	13.400	13.368	13.424	VV	1372	27357	0.38%	0.110%
268	13.449	13.424	13.489	VV	1555	28766	0.40%	0.115%
269	13.492	13.489	13.537	VV	314	7481	0.10%	0.030%
270	13.543	13.537	13.547	VV	345	1430	0.02%	0.006%
271	13.563	13.547	13.569	VV	323	2746	0.04%	0.011%
272	13.592	13.569	13.600	VV	363	4697	0.07%	0.019%
273	13.609	13.600	13.636	VV	326	4514	0.06%	0.018%
274	13.654	13.636	13.659	PV	354	2753	0.04%	0.011%
275	13.664	13.659	13.678	VV	328	2953	0.04%	0.012%
276	13.696	13.678	13.705	VV	384	3595	0.05%	0.014%
277	13.713	13.705	13.720	VV	411	2457	0.03%	0.010%
278	13.746	13.720	13.753	VV	341	5359	0.08%	0.021%
279	13.774	13.753	13.799	VV	513	9088	0.13%	0.036%
280	13.806	13.799	13.813	VV	281	1464	0.02%	0.006%
281	13.821	13.813	13.826	VV	269	1005	0.01%	0.004%
282	13.888	13.826	13.919	VV	1056	32595	0.46%	0.131%
283	13.925	13.919	13.955	VV	598	10763	0.15%	0.043%
284	13.958	13.955	13.965	VV	381	2047	0.03%	0.008%
285	13.972	13.965	13.992	VV	381	4954	0.07%	0.020%
286	14.006	13.992	14.025	VV	458	6817	0.10%	0.027%
287	14.028	14.025	14.035	VV	273	1302	0.02%	0.005%
288	14.043	14.035	14.048	VV	411	2073	0.03%	0.008%
289	14.067	14.048	14.079	VV	509	6860	0.10%	0.027%
290	14.090	14.079	14.117	VV	531	9294	0.13%	0.037%
291	14.151	14.117	14.160	VV	803	14092	0.20%	0.056%
292	14.166	14.160	14.198	VV	661	12212	0.17%	0.049%
293	14.207	14.198	14.239	VV	634	10956	0.15%	0.044%
294	14.258	14.239	14.277	VV	633	10257	0.14%	0.041%
295	14.292	14.277	14.298	VV	716	7229	0.10%	0.029%
296	14.321	14.298	14.349	VV	896	23253	0.33%	0.093%
297	14.354	14.349	14.377	VV	750	8151	0.11%	0.033%
298	14.394	14.377	14.401	VV	661	7245	0.10%	0.029%
299	14.406	14.401	14.440	VV	680	8329	0.12%	0.033%

rteres

300	14.446	14.440	14.478	VV	344	4241	0.06%	0.017%
301	14.514	14.478	14.527	VV	1123	18816	0.26%	0.075%
302	14.544	14.527	14.570	VV	1280	22579	0.32%	0.090%
303	14.593	14.570	14.621	VV	1466	23367	0.33%	0.094%
304	14.646	14.621	14.688	VV	809	18073	0.25%	0.072%
305	14.712	14.688	14.730	VV	887	14884	0.21%	0.060%
306	14.738	14.730	14.775	VV	690	13635	0.19%	0.055%
307	14.784	14.775	14.792	VV	322	3107	0.04%	0.012%
308	14.797	14.792	14.802	VV	281	1354	0.02%	0.005%
309	14.821	14.802	14.834	VV	666	8669	0.12%	0.035%
310	14.843	14.834	14.854	VV	594	5206	0.07%	0.021%
311	14.857	14.854	14.871	VV	561	3593	0.05%	0.014%
312	14.877	14.871	14.889	VV	237	1523	0.02%	0.006%
313	14.923	14.889	15.050	VV	9067	225040	3.15%	0.902%
314	15.076	15.050	15.113	VV	5332	83600	1.17%	0.335%
315	15.118	15.113	15.151	VV	736	11146	0.16%	0.045%
316	15.173	15.151	15.182	VV	578	8556	0.12%	0.034%
317	15.186	15.182	15.190	VV	637	2534	0.04%	0.010%
318	15.197	15.190	15.219	VV	612	8553	0.12%	0.034%
319	15.221	15.219	15.229	VV	474	2481	0.03%	0.010%
320	15.262	15.229	15.289	VV	1134	21077	0.30%	0.084%
321	15.305	15.289	15.320	VV	334	5205	0.07%	0.021%
322	15.328	15.320	15.330	VV	329	1436	0.02%	0.006%
323	15.371	15.330	15.382	VV	712	17040	0.24%	0.068%
324	15.389	15.382	15.409	VV	833	11214	0.16%	0.045%
325	15.412	15.409	15.424	VV	845	6554	0.09%	0.026%
326	15.428	15.424	15.435	VV	715	3594	0.05%	0.014%
327	15.451	15.435	15.469	VV	769	11438	0.16%	0.046%
328	15.474	15.469	15.495	VV	501	6584	0.09%	0.026%
329	15.520	15.495	15.538	VV	794	14438	0.20%	0.058%
330	15.562	15.538	15.594	VV	1479	29316	0.41%	0.117%
331	15.605	15.594	15.668	VV	839	22281	0.31%	0.089%
332	15.685	15.668	15.689	VV	272	2763	0.04%	0.011%
333	15.721	15.689	15.746	VV	913	20692	0.29%	0.083%
334	15.786	15.746	15.814	VV	874	24108	0.34%	0.097%
335	15.819	15.814	15.845	VV	398	3996	0.06%	0.016%
336	15.853	15.845	15.877	VV	294	2770	0.04%	0.011%
337	15.883	15.877	15.890	PV	190	1280	0.02%	0.005%
338	15.906	15.890	15.910	VV	201	1423	0.02%	0.006%
339	15.942	15.910	15.969	VV	878	19701	0.28%	0.079%
340	15.975	15.969	15.985	VV	533	3803	0.05%	0.015%
341	15.988	15.985	16.005	VV	380	3431	0.05%	0.014%
342	16.017	16.005	16.024	VV	465	3572	0.05%	0.014%
343	16.042	16.024	16.080	VV	880	18041	0.25%	0.072%
344	16.085	16.080	16.096	VV	364	2265	0.03%	0.009%
345	16.122	16.096	16.168	VV	1914	34196	0.48%	0.137%
346	16.176	16.168	16.195	VV	508	6189	0.09%	0.025%
347	16.225	16.195	16.271	VV	897	31157	0.44%	0.125%
348	16.287	16.271	16.304	VV	741	10504	0.15%	0.042%
349	16.331	16.304	16.337	VV	538	9357	0.13%	0.037%
350	16.347	16.337	16.356	VV	632	5622	0.08%	0.023%
351	16.361	16.356	16.373	VV	482	4073	0.06%	0.016%

rteres

352	16.419	16.373	16.447	VV	942	27340	0.38%	0.110%
353	16.475	16.447	16.482	VV	981	13627	0.19%	0.055%
354	16.505	16.482	16.524	VV	1822	32268	0.45%	0.129%
355	16.547	16.524	16.574	VV	2936	45794	0.64%	0.183%
356	16.584	16.574	16.649	VV	659	21869	0.31%	0.088%
357	16.669	16.649	16.727	VV	422	9283	0.13%	0.037%
358	16.739	16.727	16.743	VV	141	1141	0.02%	0.005%
359	16.755	16.743	16.779	VV	296	2319	0.03%	0.009%
360	16.812	16.779	16.838	VV	693	12436	0.17%	0.050%
361	16.843	16.838	16.858	PV	252	1136	0.02%	0.005%
362	16.876	16.858	16.906	PV	511	7876	0.11%	0.032%
363	16.913	16.906	16.926	VV	368	3115	0.04%	0.012%
364	16.952	16.926	16.985	VV	2191	31771	0.45%	0.127%
365	16.991	16.985	17.013	VV	270	3307	0.05%	0.013%
366	17.034	17.013	17.050	VV	461	4576	0.06%	0.018%
367	17.075	17.050	17.099	VV	547	9356	0.13%	0.037%
368	17.114	17.099	17.127	VV	383	3761	0.05%	0.015%
369	17.159	17.127	17.186	VV	1336	23635	0.33%	0.095%
370	17.192	17.186	17.204	VV	455	4199	0.06%	0.017%
371	17.232	17.204	17.279	VV	1146	21954	0.31%	0.088%
372	17.291	17.279	17.297	VV	273	2136	0.03%	0.009%
373	17.309	17.297	17.314	VV	271	2128	0.03%	0.009%
374	17.324	17.314	17.328	VV	430	2806	0.04%	0.011%
375	17.386	17.328	17.415	VV	3210	61029	0.86%	0.244%
376	17.422	17.415	17.429	VV	323	2092	0.03%	0.008%
377	17.433	17.429	17.446	VV	260	2129	0.03%	0.009%
378	17.477	17.446	17.518	VV	2003	35595	0.50%	0.143%
379	17.524	17.518	17.565	VV	267	6454	0.09%	0.026%
380	17.594	17.565	17.614	VV	267	4168	0.06%	0.017%
381	17.680	17.614	17.700	PV	669	11966	0.17%	0.048%
382	17.708	17.700	17.713	VV	240	1440	0.02%	0.006%
383	17.748	17.713	17.784	VV	2594	59448	0.83%	0.238%
384	17.808	17.784	17.877	VV	3391	59067	0.83%	0.237%
385	17.904	17.877	17.917	PV	269	3684	0.05%	0.015%
386	17.949	17.917	17.961	VV	412	7946	0.11%	0.032%
387	17.981	17.961	17.994	VV	362	5745	0.08%	0.023%
388	18.025	17.994	18.047	VV	389	9359	0.13%	0.037%
389	18.072	18.047	18.112	VV	581	12718	0.18%	0.051%
390	18.132	18.112	18.141	PV	250	2650	0.04%	0.011%
391	18.215	18.141	18.239	PV	3148	47907	0.67%	0.192%

Sum of corrected areas: 24961894

Aromatic EPH 102324.M Sat Nov 09 03:29:50 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067697.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 17:10
Operator : YP/AJ
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SW

Integration File: autoint1.e
Quant Time: Nov 11 20:45:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.932	5378094	49.803 ug/ml
Spiked Amount 50.000		Recovery = 99.61%	
Target Compounds			

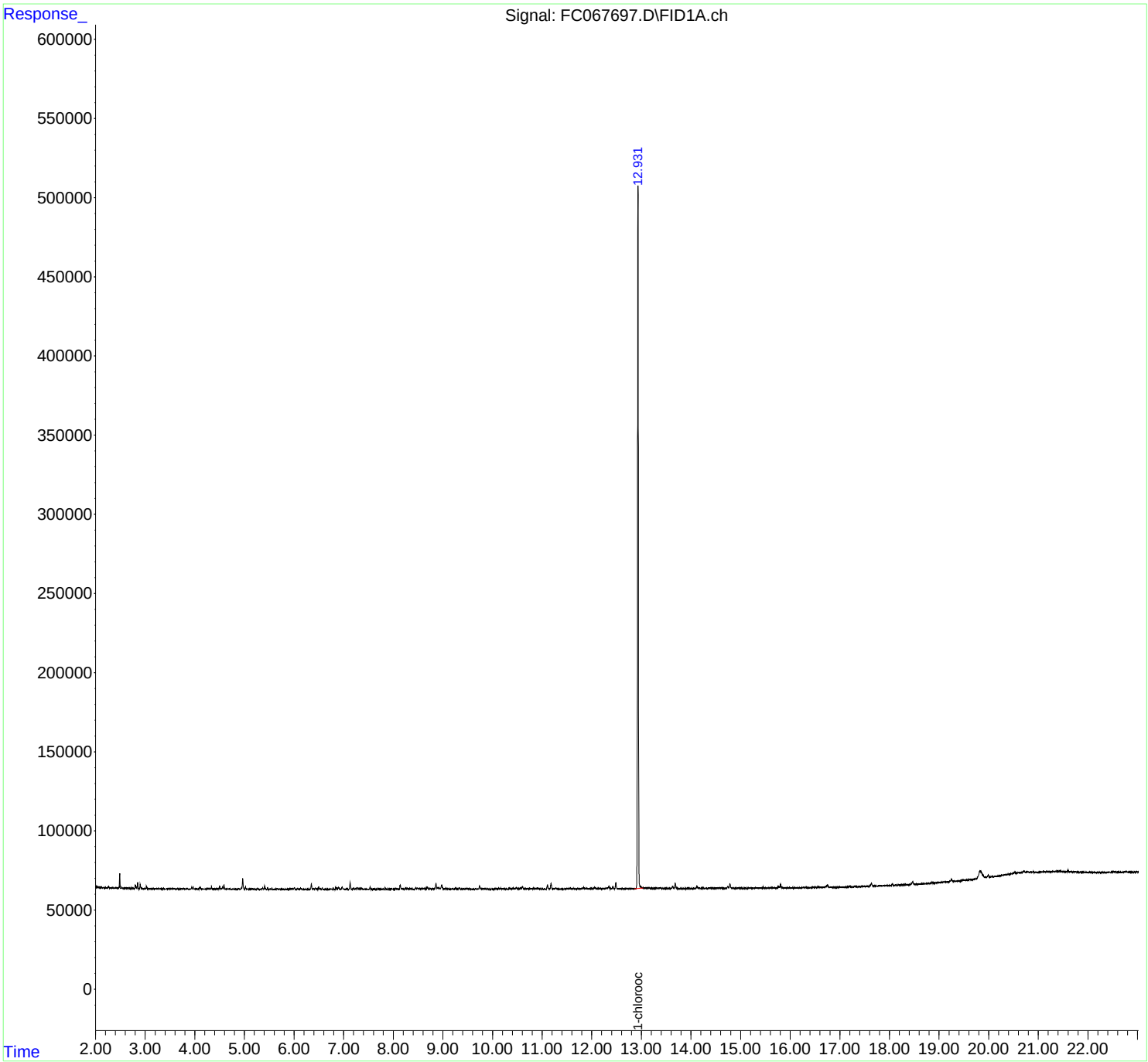
(f)=RT Delta > 1/2 Window (m)=manual int.

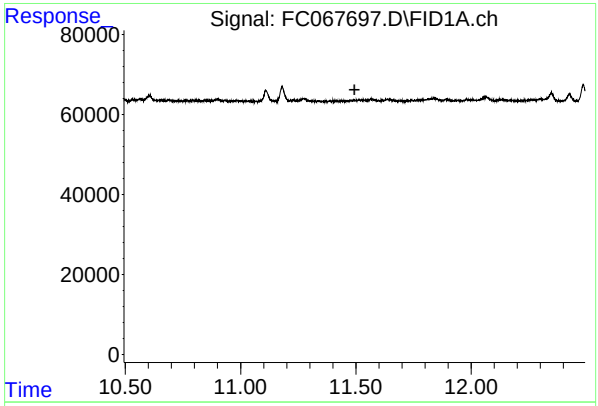
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067697.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 17:10
Operator : YP/AJ
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SW

Integration File: autoint1.e
Quant Time: Nov 11 20:45:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

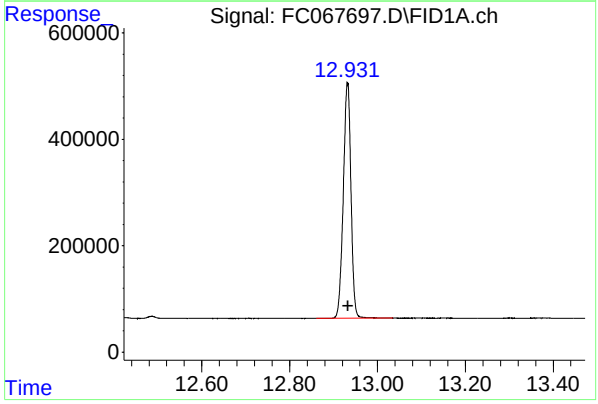




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
WB-307-SW



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: -0.001 min
Response: 5378094
Conc: 49.80 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067697.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 17:10
Sample : P4718-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	4.966	4.844	5.004	BV	6651	86580	1.61%	1.466%
2	6.350	6.295	6.377	BB	3242	33881	0.63%	0.574%
3	7.131	7.084	7.155	BB	4150	42856	0.80%	0.726%
4	8.862	8.832	8.882	BV	3358	34391	0.64%	0.582%
5	11.180	11.155	11.209	BB	3570	46203	0.86%	0.782%
6	12.486	12.460	12.530	BB	4036	50215	0.93%	0.850%
7	12.932	12.860	13.035	BB	442777	5378094	100.00%	91.067%
8	19.827	19.724	19.939	BB	4758	233456	4.34%	3.953%
			Sum of corrected areas:			5905676		

Aliphatic EPH 102324.M Tue Nov 12 01:27:24 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048701.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 17:10
Operator : YP/AJ
Sample : P4718-04
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
WB-307-SW

Integration File: autoint1.e
Quant Time: Nov 11 20:47:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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...	7.370	9127435	60.136 ug/ml
Spiked Amount 50.000		Recovery = 120.27%	
6) S 2-Flurobiphenyl (SURR)	8.220	6008831	61.195 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 122.39%	
11) S ortho-Terphenyl (SURR)	11.258	9885211	58.032 ug/ml
Spiked Amount 50.000		Recovery = 116.06%	
Target Compounds			

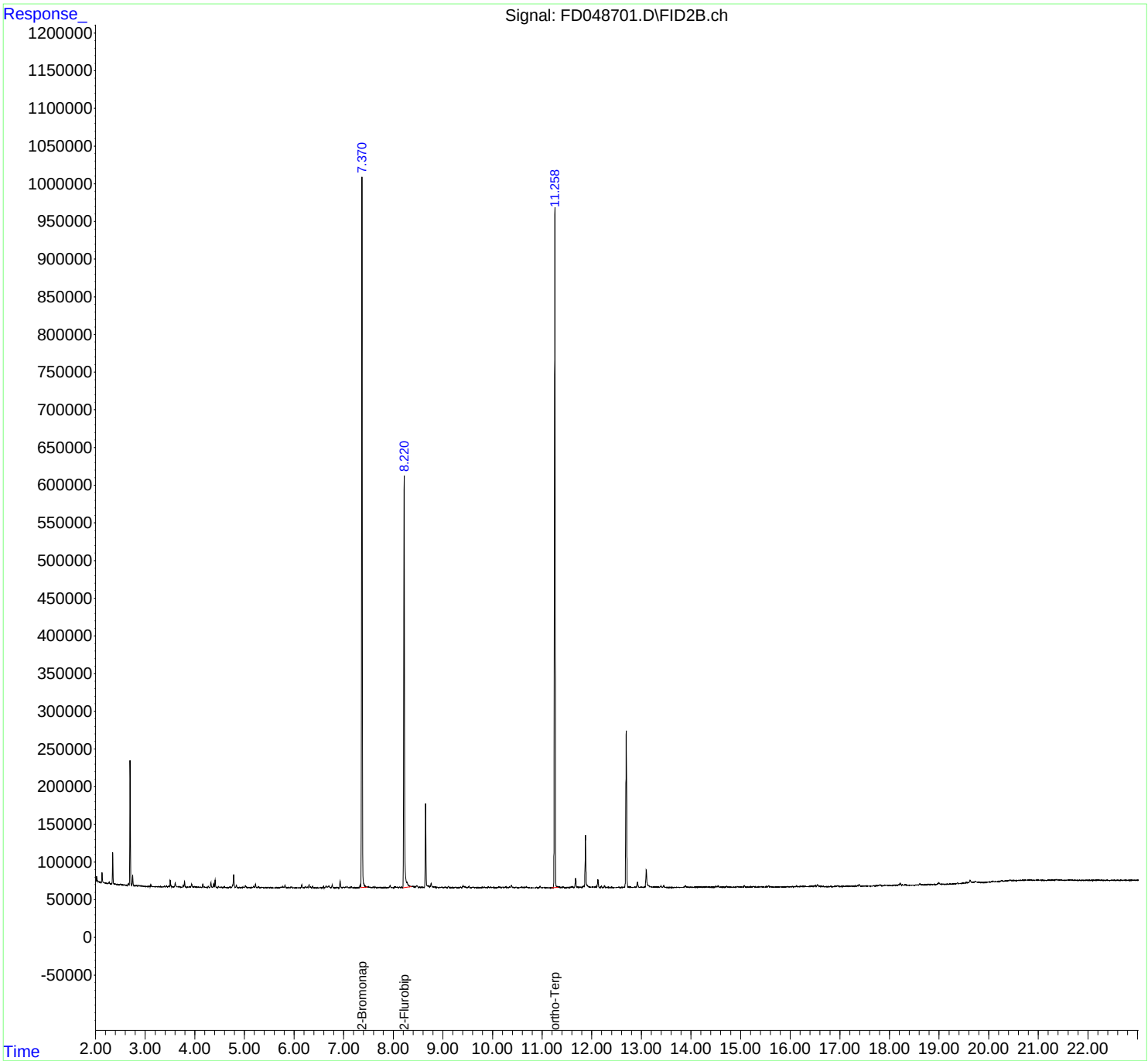
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048701.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 17:10
Operator : YP/AJ
Sample : P4718-04
Misc :
ALS Vial : 65 Sample Multiplier: 1

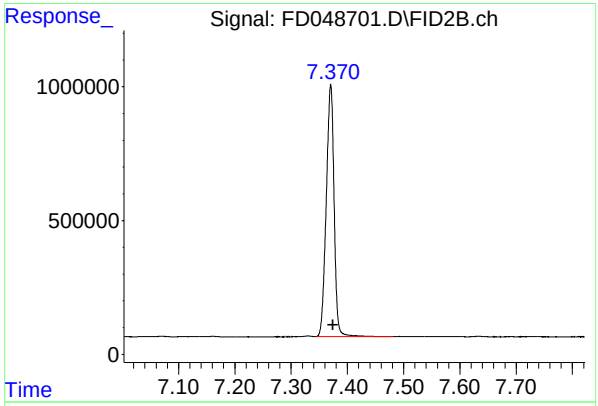
Instrument :
FID_D
ClientSampleId :
WB-307-SW

Integration File: autoint1.e
Quant Time: Nov 11 20:47:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

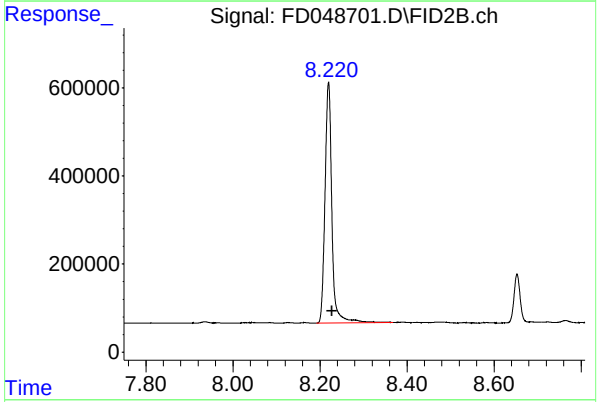


Instrument :
FID_D
ClientSampleId :
WB-307-SW



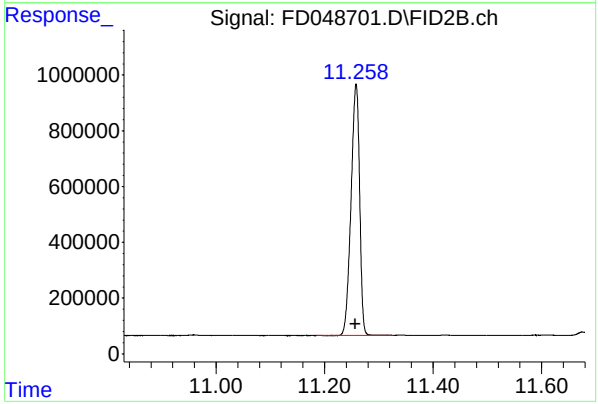
#4 2-Bromonaphthalene (SURR)

R.T.: 7.370 min
Delta R.T.: -0.004 min
Response: 9127435
Conc: 60.14 ug/ml



#6 2-Flurobiphenyl (SURR)

R.T.: 8.220 min
Delta R.T.: -0.008 min
Response: 6008831
Conc: 61.19 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 9885211
Conc: 58.03 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048701.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 17:10
Sample : P4718-04
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	3.505	3.491	3.571	VB	8956	91243	0.92%	0.293%
2	3.605	3.574	3.658	BV	5261	60249	0.61%	0.193%
3	3.794	3.778	3.838	VV	8187	74778	0.76%	0.240%
4	3.938	3.888	3.964	BV	4021	50659	0.51%	0.163%
5	4.325	4.291	4.361	PV	6723	76954	0.78%	0.247%
6	4.381	4.361	4.394	VV	5039	47510	0.48%	0.152%
7	4.410	4.394	4.461	VV	9917	95043	0.96%	0.305%
8	4.783	4.728	4.814	VV	17134	215717	2.18%	0.692%
9	5.224	5.204	5.251	VV	5076	47894	0.48%	0.154%
10	6.156	5.994	6.179	BV	4102	46201	0.47%	0.148%
11	6.303	6.285	6.324	PV	3906	36065	0.36%	0.116%
12	6.770	6.741	6.821	VB	3887	53110	0.54%	0.170%
13	6.930	6.897	6.971	PV	9088	95970	0.97%	0.308%
14	7.330	7.254	7.344	PV	2960	37564	0.38%	0.121%
15	7.370	7.344	7.481	VV	947930	9127435	92.33%	29.297%
16	8.220	8.191	8.368	PV	550716	6008831	60.79%	19.287%
17	8.653	8.612	8.701	PV	109807	1106259	11.19%	3.551%
18	8.764	8.739	8.791	VV	5290	68246	0.69%	0.219%
19	11.258	11.184	11.326	BV	900995	9885211	100.00%	31.729%
20	11.676	11.635	11.728	VV	12265	152691	1.54%	0.490%
21	11.875	11.847	11.971	VB	68834	848910	8.59%	2.725%
22	12.124	12.078	12.178	BV	10303	132969	1.35%	0.427%
23	12.696	12.641	12.733	PV	206456	2338717	23.66%	7.507%
24	12.921	12.774	12.958	BV	7235	88666	0.90%	0.285%
25	13.097	13.031	13.218	BB	23038	368136	3.72%	1.182%

Sum of corrected areas: 31155027

Aromatic EPH 102324.M Tue Nov 12 03:26:51 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067670.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 16:19
Operator : YP/AJ
Sample : PB164790BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164790BL

Integration File: autoint1.e
Quant Time: Nov 09 01:37:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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	4629394	42.869 ug/ml
Spiked Amount 50.000		Recovery = 85.74%	
Target Compounds			

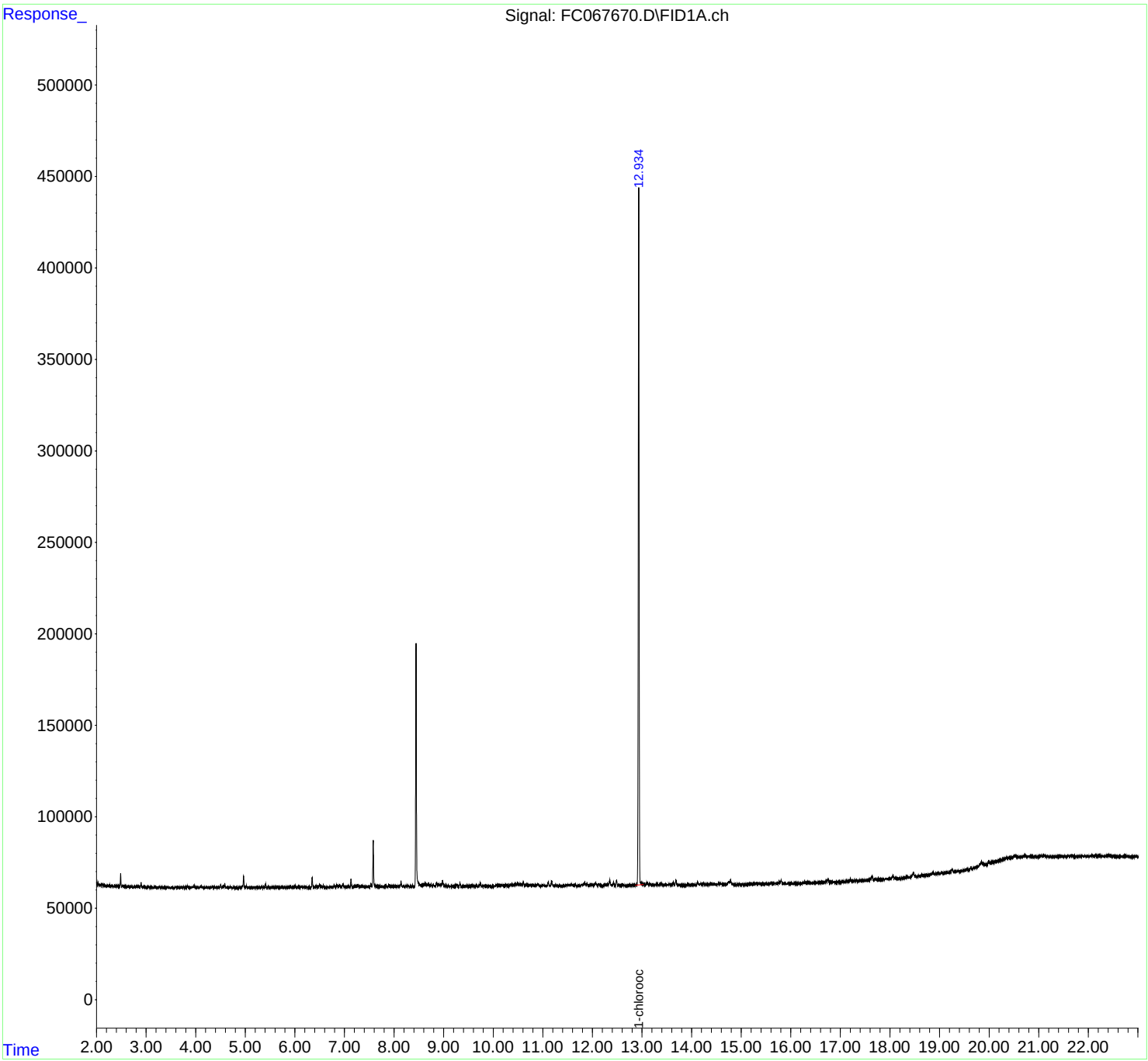
(f)=RT Delta > 1/2 Window (m)=manual int.

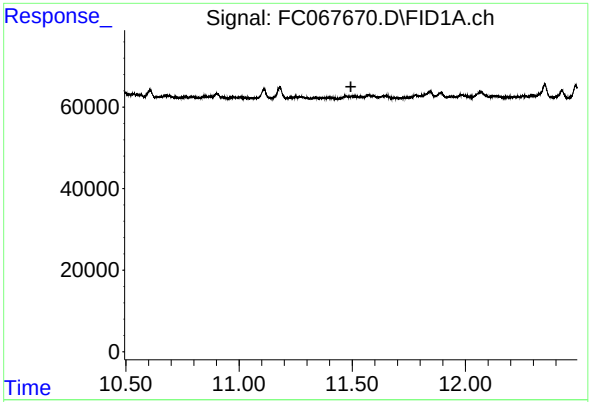
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067670.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 16:19
Operator : YP/AJ
Sample : PB164790BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164790BL

Integration File: autoint1.e
Quant Time: Nov 09 01:37:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

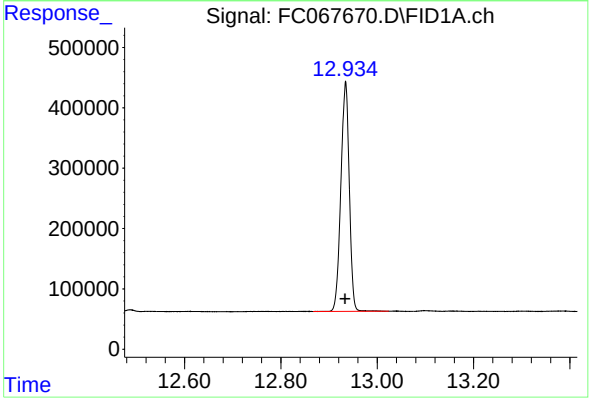




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164790BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.934 min
Delta R.T.: 0.001 min
Response: 4629394
Conc: 42.87 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067670.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 16:19
Sample : PB164790BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	12.934	12.867	13.024	BB	378871	4629394	100.00%	100.000%
			Sum of corrected areas:			4629394		

Aliphatic EPH 102324.M Sat Nov 09 02:11:55 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048673.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 16:19
Operator : YP/AJ
Sample : PB164790BL
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164790BL

Integration File: sample.E
Quant Time: Nov 09 01:07:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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...	7.367	7008484	46.176 ug/ml
Spiked Amount 50.000		Recovery =	92.35%
6) S 2-Flurobiphenyl (SURR)	8.217	3100787	31.579 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	63.16%
11) S ortho-Terphenyl (SURR)	11.254	6932733	40.699 ug/ml
Spiked Amount 50.000		Recovery =	81.40%
Target Compounds			

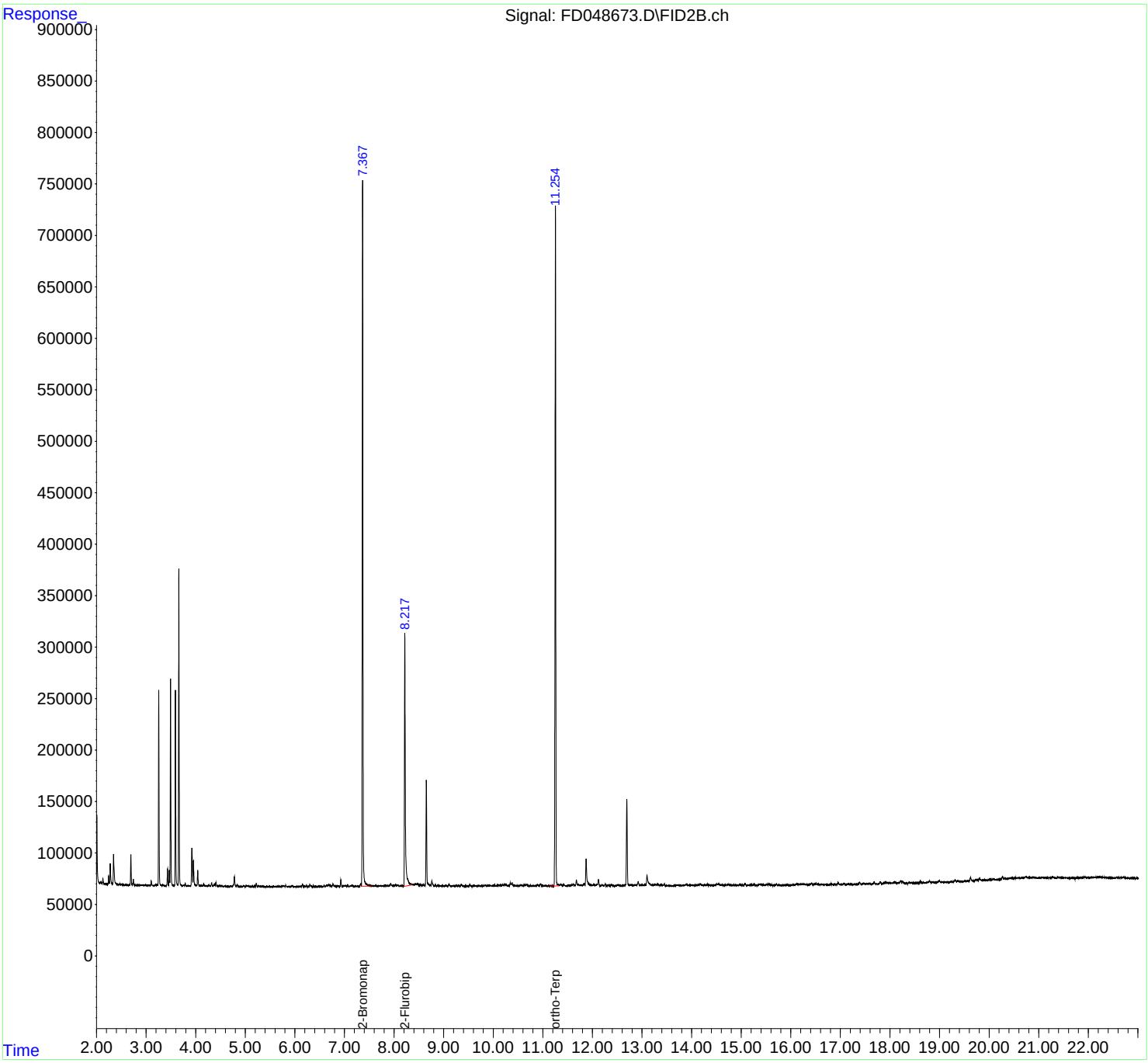
(f)=RT Delta > 1/2 Window (m)=manual int.

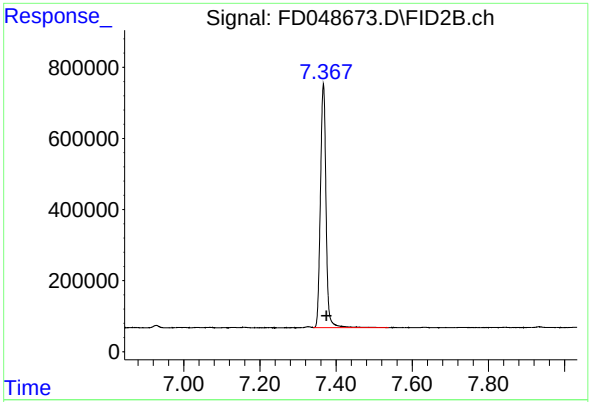
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048673.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 16:19
Operator : YP/AJ
Sample : PB164790BL
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164790BL

Integration File: sample.E
Quant Time: Nov 09 01:07:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

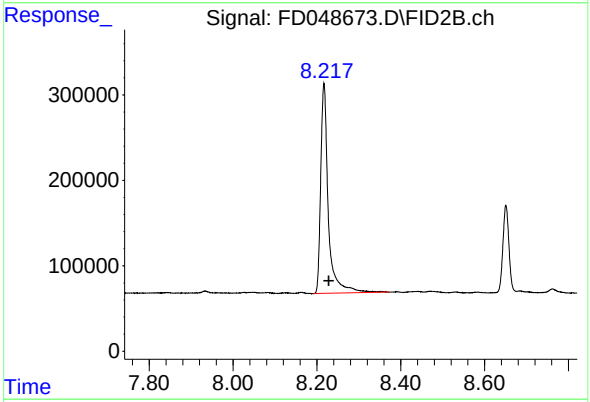




#4 2-Bromonaphthalene (SURR)

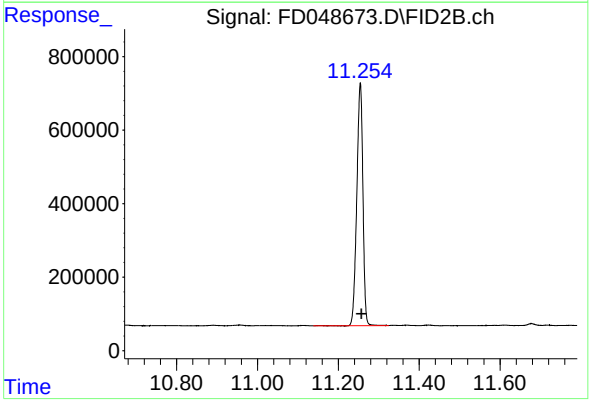
R.T.: 7.367 min
Delta R.T.: -0.008 min
Response: 7008484
Conc: 46.18 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164790BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.011 min
Response: 3100787
Conc: 31.58 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: -0.003 min
Response: 6932733
Conc: 40.70 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048673.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 16:19
Sample : PB164790BL
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	7.367	7.340	7.538	VV	688207	7008484	100.00%	41.125%
2	8.217	8.191	8.371	PV	245486	3100787	44.24%	18.195%
3	11.254	11.138	11.324	PV	662656	6932733	98.92%	40.680%
			Sum of corrected areas:			17042004		

Aromatic EPH 102324.M Sat Nov 09 03:24:37 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067694.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 15:19
Operator : YP/AJ
Sample : PB164847BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164847BL

Integration File: autoint1.e
Quant Time: Nov 11 20:44:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.932	4947942	45.819 ug/ml
Spiked Amount 50.000		Recovery = 91.64%	
Target Compounds			

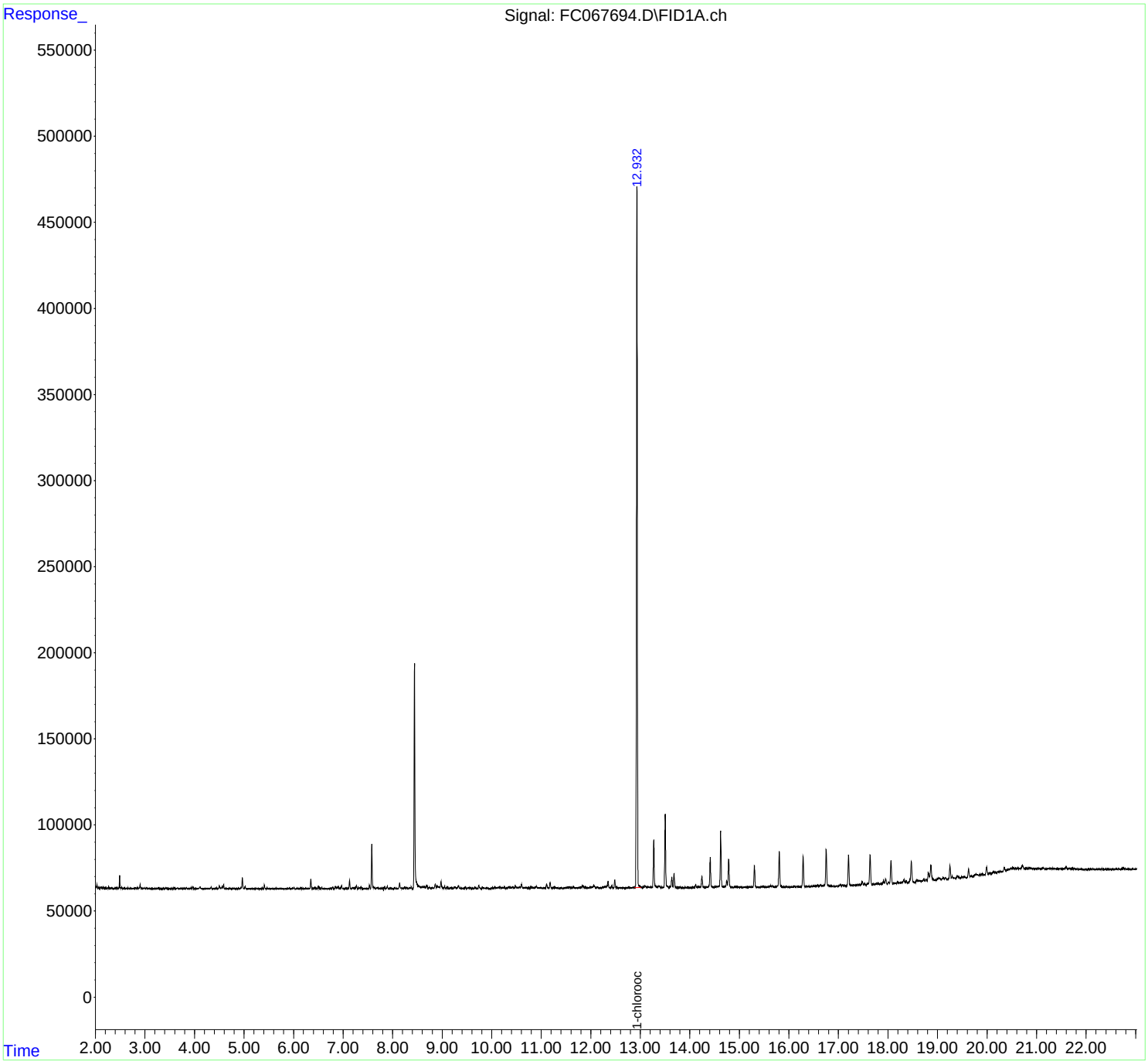
(f)=RT Delta > 1/2 Window (m)=manual int.

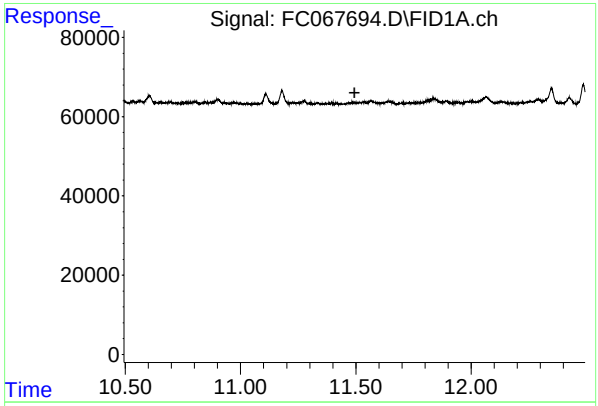
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067694.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 15:19
Operator : YP/AJ
Sample : PB164847BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164847BL

Integration File: autoint1.e
Quant Time: Nov 11 20:44:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

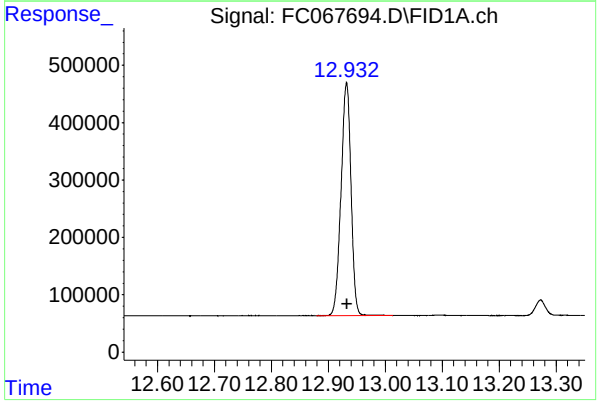




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164847BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: -0.001 min
Response: 4947942
Conc: 45.82 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067694.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 15:19
Sample : PB164847BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	12.932	12.878	13.013	BB	406267	4947942	100.00%	100.000%

Sum of corrected areas: 4947942

Aliphatic EPH 102324.M Tue Nov 12 01:25:49 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048698.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 15:19
Operator : YP/AJ
Sample : PB164847BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164847BL

Integration File: autoint1.e
Quant Time: Nov 11 20:46:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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...	7.370	7793579	51.348 ug/ml
Spiked Amount 50.000		Recovery = 102.70%	
6) S 2-Flurobiphenyl (SURR)	8.219	3555602	36.211 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 72.42%	
11) S ortho-Terphenyl (SURR)	11.257	7862791	46.159 ug/ml
Spiked Amount 50.000		Recovery = 92.32%	
Target Compounds			

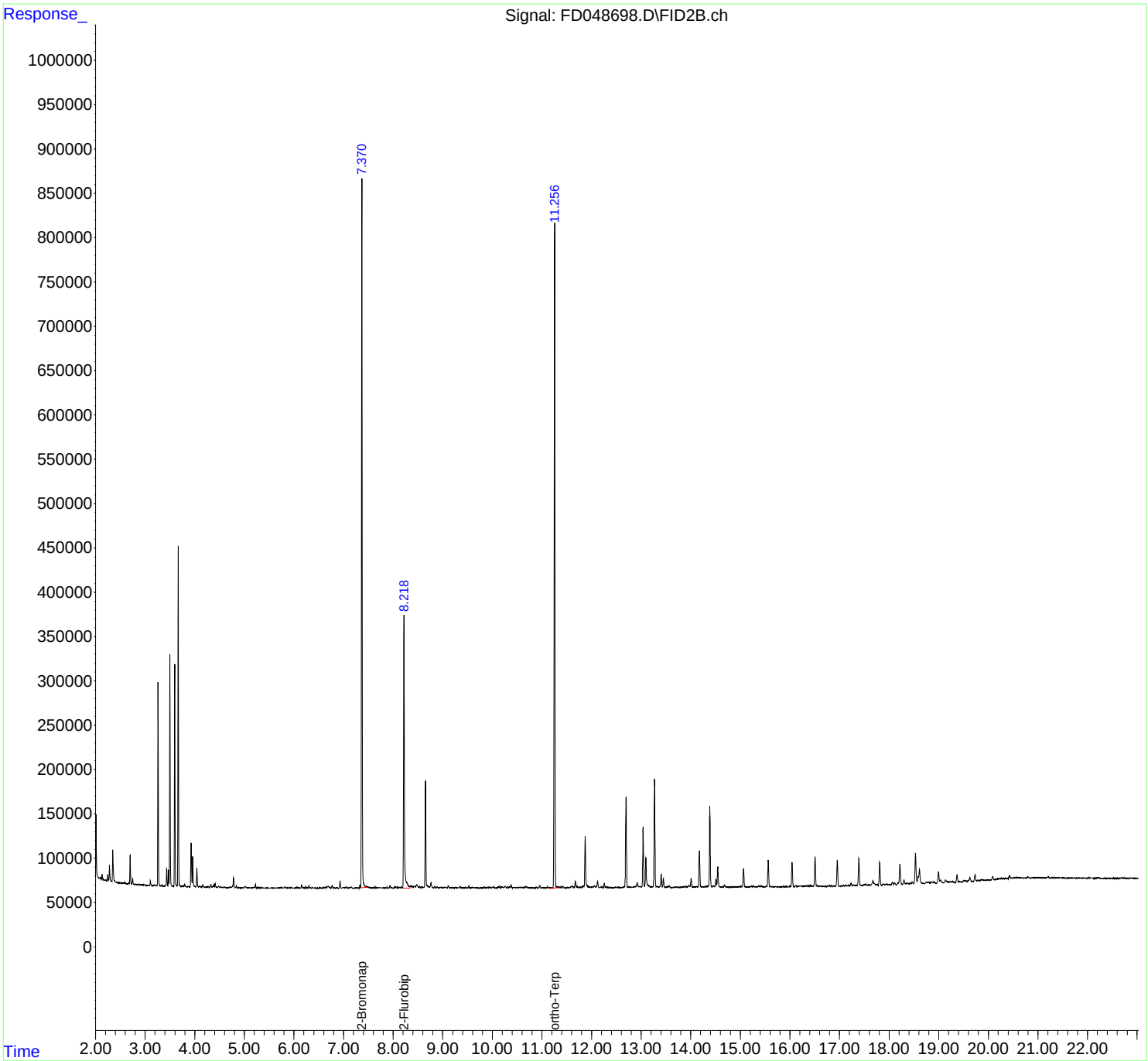
(f)=RT Delta > 1/2 Window (m)=manual int.

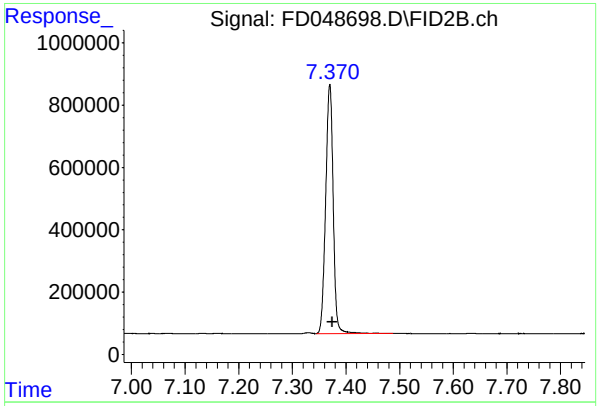
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048698.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 15:19
Operator : YP/AJ
Sample : PB164847BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164847BL

Integration File: autoint1.e
Quant Time: Nov 11 20:46:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

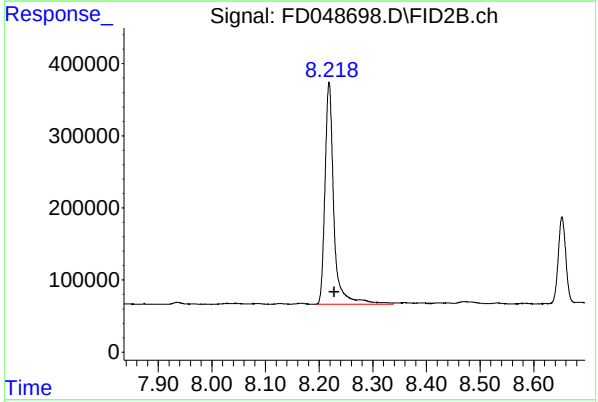




#4 2-Bromonaphthalene (SURR)

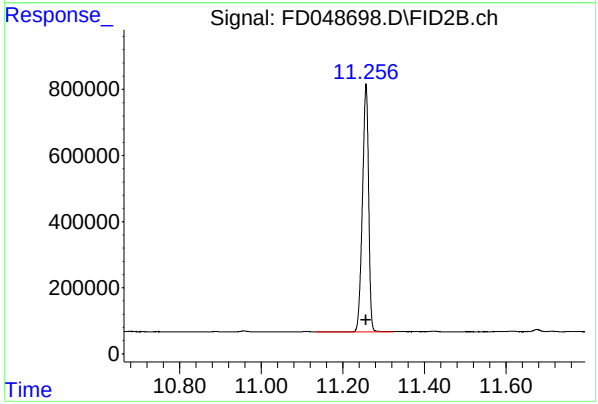
R.T.: 7.370 min
Delta R.T.: -0.005 min
Response: 7793579
Conc: 51.35 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164847BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: -0.010 min
Response: 3555602
Conc: 36.21 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 7862791
Conc: 46.16 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048698.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 15:19
Sample : PB164847BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	7.370	7.344	7.488	VB	805258	7793579	99.12%	49.779%
2	11.257	11.134	11.323	PV	753267	7862791	100.00%	50.221%
					Sum of corrected areas:		15656370	

Aromatic EPH 102324.M Tue Nov 12 03:23:37 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067671.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 16:55
Operator : YP/AJ
Sample : PB164790BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164790BS

12

A B C D E F G H I J

Integration File: autoint1.e
Quant Time: Nov 09 01:37:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.932	4113852	38.095 ug/ml
Spiked Amount	50.000		Recovery =	76.19%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3001231	22.277 ug/ml
2) T	n-Decane (C10)	4.335	3653417	26.815 ug/ml
4) T	n-Dodecane (C12)	6.350	4082580	30.143 ug/ml
6) T	n-Tetradecane (C14)	8.143	4286216	32.654 ug/ml
7) T	n-Hexadecane (C16)	9.742	4654183	35.231 ug/ml
8) T	n-Octadecane (C18)	11.182	5038676	38.139 ug/ml
10) T	n-Eicosane (C20)	12.490	5243551	41.557 ug/ml
11) T	n-Heneicosane (C21)	13.101	5077990	41.146 ug/ml
13) T	n-Docosane (C22)	13.687	5072036	41.422 ug/ml
14) T	n-Tetracosane (C24)	14.787	5008883	41.324 ug/ml
15) T	n-Hexacosane (C26)	15.807	4932683	41.432 ug/ml
16) T	n-Octacosane (C28)	16.756	4895307	41.610 ug/ml
17) T	n-Tricontane (C30)	17.642	4925116	40.747 ug/ml
18) T	n-Dotriacontane (C32)	18.472	4883145	41.271 ug/ml
19) T	n-Tetratriacontane (C34)	19.255	4849736	46.308 ug/ml
20) T	n-Hexatriacontane (C36)	19.993	4702349	51.659 ug/ml
21) T	n-Octatriacontane (C38)	20.716	4684008	54.086 ug/ml
22) T	n-Tetracontane (C40)	21.602	4642962	54.616 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

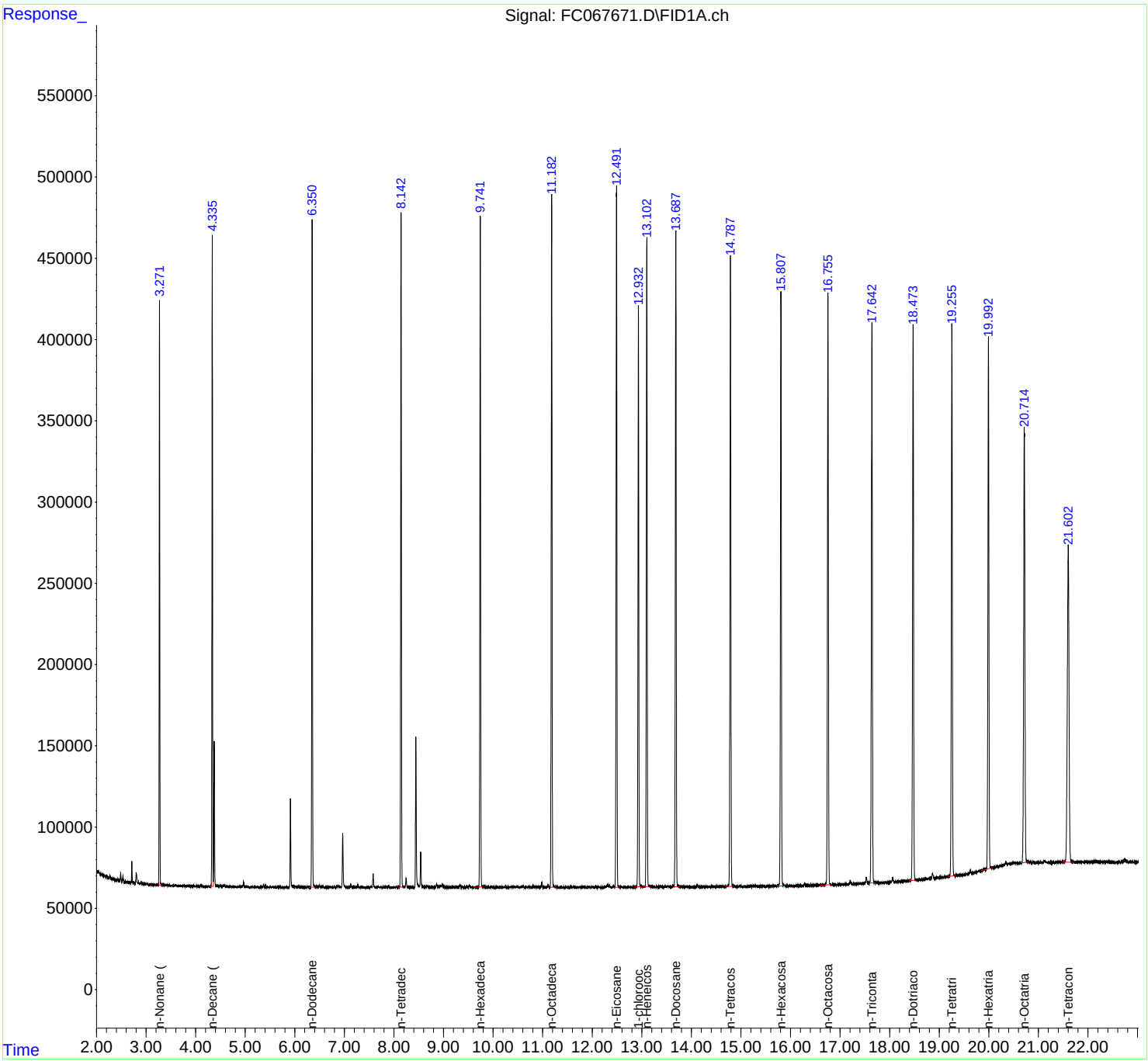
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067671.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 16:55
Operator : YP/AJ
Sample : PB164790BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164790BS

12

Integration File: autoint1.e
Quant Time: Nov 09 01:37:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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\FC110824AL\
Data File : FC067671.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 16:55
Sample : PB164790BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.272	3.245	3.339	BB	358929	3001231	57.24%	3.420%
2	4.335	4.280	4.357	BV	400358	3653417	69.67%	4.164%
3	6.350	6.287	6.417	BV	411135	4082580	77.86%	4.653%
4	8.143	8.082	8.204	BB	414217	4286216	81.74%	4.885%
5	9.742	9.614	9.797	BB	413914	4654183	88.76%	5.304%
6	11.182	11.145	11.265	BB	425707	5038676	96.09%	5.742%
7	12.490	12.450	12.557	PB	427224	5243551	100.00%	5.976%
8	12.932	12.864	12.974	BB	357351	4113852	78.46%	4.688%
9	13.101	13.034	13.167	BB	397094	5077990	96.84%	5.787%
10	13.687	13.648	13.752	VB	404313	5072036	96.73%	5.780%
11	14.787	14.682	14.857	BB	385208	5008883	95.52%	5.708%
12	15.807	15.719	15.887	BB	365887	4932683	94.07%	5.621%
13	16.756	16.600	16.827	BB	364601	4895307	93.36%	5.579%
14	17.642	17.575	17.695	BB	344692	4925116	93.93%	5.613%
15	18.472	18.397	18.535	BB	341392	4883145	93.13%	5.565%
16	19.255	19.175	19.324	BV	338177	4849736	92.49%	5.527%
17	19.993	19.845	20.055	BB	326184	4702349	89.68%	5.359%
18	20.716	20.642	20.802	BB	266641	4684008	89.33%	5.338%
19	21.602	21.499	21.714	BB	195029	4642962	88.55%	5.291%
			Sum of corrected areas:			87747922		

Aliphatic EPH 102324.M Sat Nov 09 02:12:17 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048674.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 16:55
Operator : YP/AJ
Sample : PB164790BS
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:07:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
PB164790BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.369	6793337	44.758 ug/ml
Spiked Amount 50.000		Recovery = 89.52%	
6) S 2-Flurobiphenyl (SURR)	8.219	3413584	34.764 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 69.53%	
11) S ortho-Terphenyl (SURR)	11.255	6379432	37.451 ug/ml
Spiked Amount 50.000		Recovery = 74.90%	
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.191	3958170	22.752 ug/mlm
2) T Naphthalene (C11.7)	5.708	4709623	26.394 ug/ml
3) T 2-Methylnaphthalene (...	6.755	4709799	26.332 ug/ml
5) T Acenaphthylene (C15.06)	8.021	5586729	31.817 ug/ml
7) T Acenaphthene (C15.5)	8.316	5764691	32.502 ug/ml
8) T Flouorene (C16.55)	9.094	5897494	34.889 ug/ml
9) T Phenanthrene (C19.36)	10.482	6029876	36.477 ug/ml
10) T Anthracene (C19.43)	10.558	6099948	38.146 ug/ml
12) T Fluoranthene (C21.85)	12.287	6307650	38.326 ug/mlm
13) T Pyrene (C20.8)	12.580	6214680	38.582 ug/ml
14) T Benzo[a]anthracene (C...	14.450	5847438	39.992 ug/ml
15) T Chrysene (C27.41)	14.492	5925473	36.023 ug/ml
16) T benzo[b]fluoranthene ...	15.998	5976532	39.312 ug/ml
17) T Bnezo[k]fluoranthene ...	16.031	5956234	39.628 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.373	5746993	38.187 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.739	5620185	43.074 ug/ml
20) T Dibenz[a,h]anthracene...	17.777	5776617	35.497 ug/ml
21) T Benzo[g,h,i]perylene ...	17.991	5749712	37.557 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

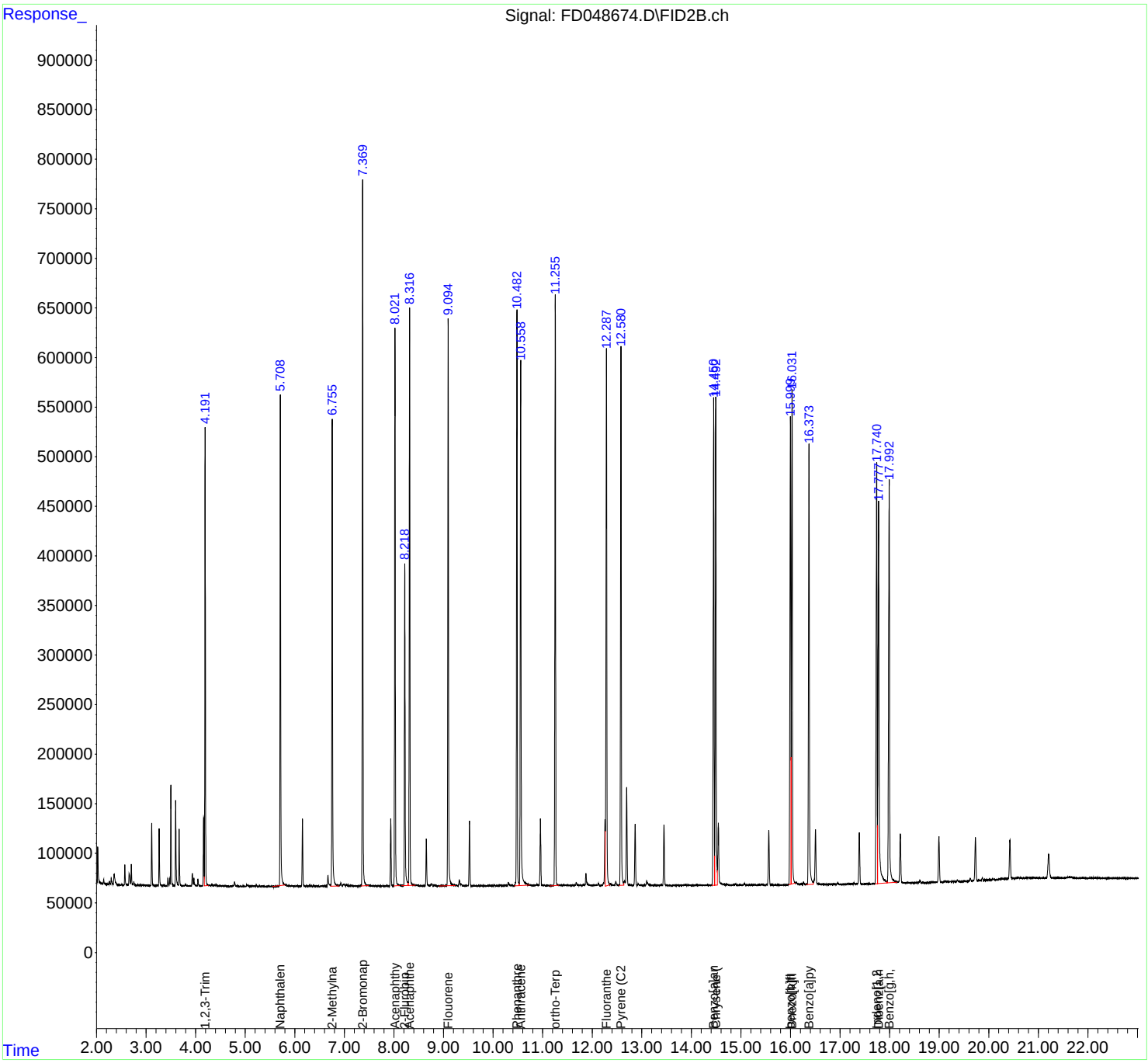
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048674.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 16:55
Operator : YP/AJ
Sample : PB164790BS
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:07:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
PB164790BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024



12

Instrument :
FID_D
ClientSampleId :
PB164790BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11082
Data File : FD048674.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 16:55
Sample : PB164790BS
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.191	4.176	4.255	M	462654	3965954	56.19%	3.327%
2	5.708	5.548	5.808	BV	494260	4709623	66.73%	3.950%
3	6.755	6.725	6.891	VV	469869	4709799	66.73%	3.950%
4	7.369	7.341	7.491	VB	702851	6793337	96.26%	5.698%
5	8.021	7.991	8.115	PV	561488	5586729	79.16%	4.686%
6	8.219	8.155	8.287	BV	324622	3413584	48.37%	2.863%
7	8.316	8.287	8.431	VB	576891	5764691	81.68%	4.835%
8	9.094	8.911	9.238	BV	572611	5897494	83.56%	4.947%
9	10.482	10.431	10.527	BV	575665	6029876	85.44%	5.058%
10	10.558	10.527	10.741	VV	529773	6099948	86.43%	5.116%
11	11.255	11.141	11.331	PV	593295	6379432	90.39%	5.351%
12	12.287	12.171	12.455	PV	545977	7057496	100.00%	5.920%
13	12.580	12.544	12.638	VV	548038	6214680	88.06%	5.213%
14	14.450	14.408	14.469	BV	497145	5847438	82.85%	4.905%
15	14.492	14.469	14.524	VV	489981	5925473	83.96%	4.970%
16	15.998	15.961	16.013	BV	467041	5976532	84.68%	5.013%
17	16.031	16.013	16.101	VV	500329	5956234	84.40%	4.996%
18	16.373	16.311	16.458	BV	447919	5746993	81.43%	4.820%
19	17.739	17.701	17.756	BV	420689	5620185	79.63%	4.714%
20	17.777	17.756	17.950	VV	386245	5776617	81.85%	4.845%
21	17.991	17.950	18.155	VV	405110	5749712	81.47%	4.823%

Sum of corrected areas: 119221826

Aromatic EPH 102324.M Sat Nov 09 03:25:28 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067695.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 15:56
Operator : YP/AJ
Sample : PB164847BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164847BS

12

A B C D E F G H I J

Integration File: autoint1.e
Quant Time: Nov 11 20:45:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.932	4338861	40.179 ug/ml
Spiked Amount	50.000		Recovery =	80.36%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3105743	23.053 ug/ml
2) T	n-Decane (C10)	4.336	3802306	27.908 ug/ml
4) T	n-Dodecane (C12)	6.351	4268047	31.512 ug/ml
6) T	n-Tetradecane (C14)	8.143	4512592	34.379 ug/ml
7) T	n-Hexadecane (C16)	9.742	4908365	37.156 ug/ml
8) T	n-Octadecane (C18)	11.182	5339509	40.416 ug/ml
10) T	n-Eicosane (C20)	12.489	5579967	44.223 ug/ml
11) T	n-Heneicosane (C21)	13.101	5391006	43.682 ug/ml
13) T	n-Docosane (C22)	13.687	5431429	44.357 ug/ml
14) T	n-Tetracosane (C24)	14.787	5430032	44.799 ug/ml
15) T	n-Hexacosane (C26)	15.807	5402496	45.378 ug/ml
16) T	n-Octacosane (C28)	16.755	5380028	45.730 ug/ml
17) T	n-Tricontane (C30)	17.641	5352571	44.283 ug/ml
18) T	n-Dotriacontane (C32)	18.473	5262970	44.481 ug/ml
19) T	n-Tetratriacontane (C34)	19.255	5152235	49.197 ug/ml
20) T	n-Hexatriacontane (C36)	19.994	4961455	54.505 ug/ml
21) T	n-Octatriacontane (C38)	20.717	4904244	56.629 ug/ml
22) T	n-Tetracontane (C40)	21.601	4816012	56.652 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

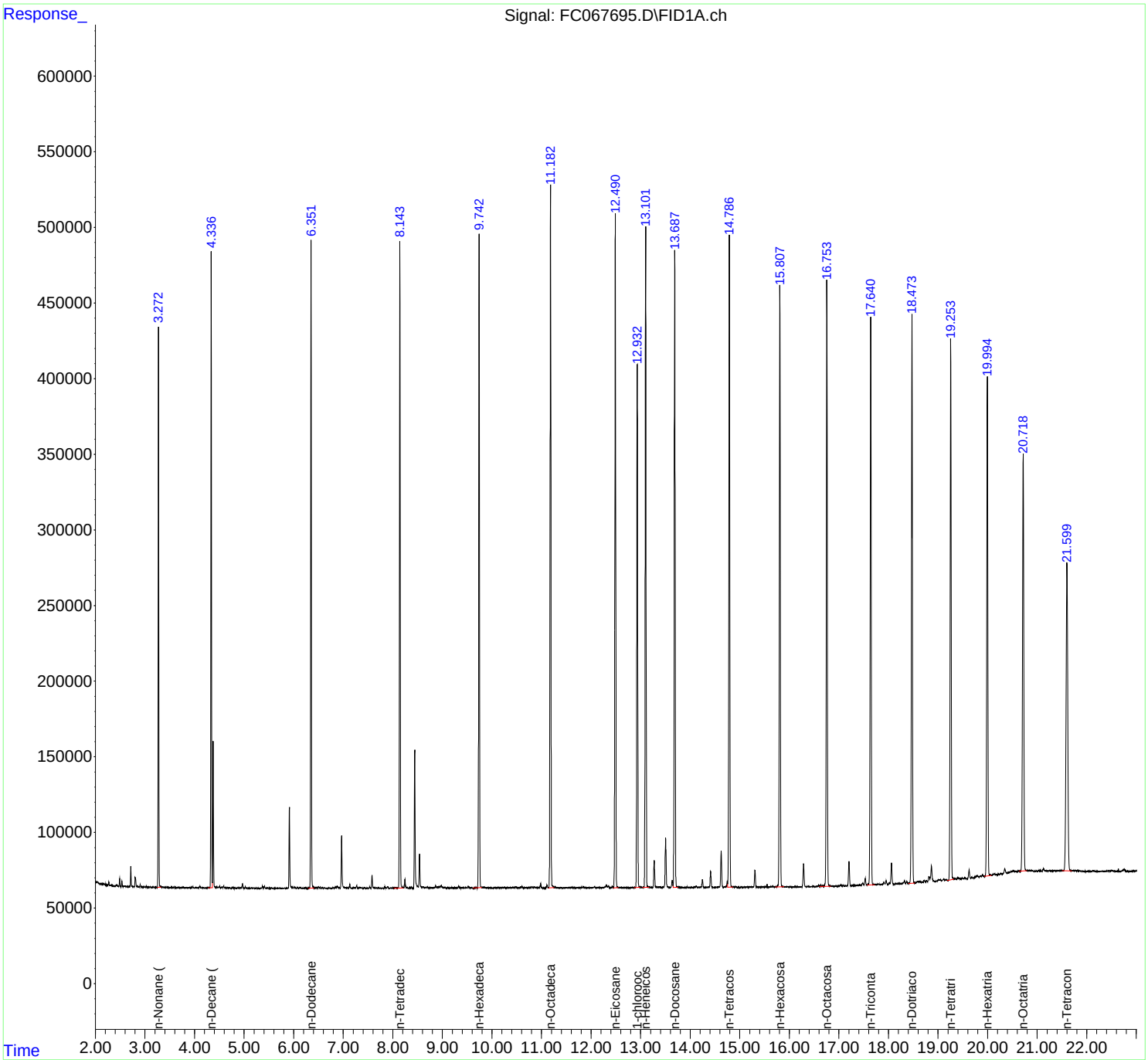
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067695.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 15:56
Operator : YP/AJ
Sample : PB164847BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164847BS

12

Integration File: autoint1.e
Quant Time: Nov 11 20:45:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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\FC111124AL\
Data File : FC067695.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 15:56
Sample : PB164847BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.272	3.245	3.327	BB	370092	3105743	55.66%	3.327%
2	4.336	4.280	4.358	BV	418589	3802306	68.14%	4.074%
3	6.351	6.292	6.414	BV	426292	4268047	76.49%	4.573%
4	8.143	8.015	8.215	BB	427412	4512592	80.87%	4.835%
5	9.742	9.615	9.802	BB	429261	4908365	87.96%	5.259%
6	11.182	11.135	11.255	PV	465762	5339509	95.69%	5.721%
7	12.489	12.450	12.554	PB	444437	5579967	100.00%	5.978%
8	12.932	12.865	12.982	BB	345383	4338861	77.76%	4.648%
9	13.101	13.032	13.167	BB	436341	5391006	96.61%	5.776%
10	13.687	13.654	13.755	VB	420904	5431429	97.34%	5.819%
11	14.787	14.754	14.857	VB	431755	5430032	97.31%	5.817%
12	15.807	15.715	15.885	BB	396592	5402496	96.82%	5.788%
13	16.755	16.610	16.835	BB	394316	5380028	96.42%	5.764%
14	17.641	17.575	17.714	BB	375644	5352571	95.92%	5.734%
15	18.473	18.400	18.535	BB	376347	5262970	94.32%	5.639%
16	19.255	19.189	19.320	BV	348852	5152235	92.33%	5.520%
17	19.994	19.930	20.079	BB	327267	4961455	88.92%	5.315%
18	20.717	20.635	20.790	BB	274105	4904244	87.89%	5.254%
19	21.601	21.504	21.700	BB	201330	4816012	86.31%	5.160%
			Sum of corrected areas:			93339868		

Aliphatic EPH 102324.M Tue Nov 12 01:26:28 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048699.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 15:56
Operator : YP/AJ
Sample : PB164847BS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:46:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
PB164847BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.370	7311826	48.174 ug/ml
Spiked Amount	50.000		Recovery =	96.35%
6) S	2-Flurobiphenyl (SURR)	8.218	3737514	38.063 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	76.13%
11) S	ortho-Terphenyl (SURR)	11.256	6906333	40.544 ug/ml
Spiked Amount	50.000		Recovery =	81.09%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.191	4198716	24.135 ug/mlm
2) T	Naphthalene (C11.7)	5.709	5136931	28.789 ug/ml
3) T	2-Methylnaphthalene (...	6.755	5031320	28.129 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	6036188	34.376 ug/ml
7) T	Acenaphthene (C15.5)	8.316	6219519	35.067 ug/ml
8) T	Flouorene (C16.55)	9.095	6395178	37.833 ug/ml
9) T	Phenanthrene (C19.36)	10.483	6554307	39.650 ug/ml
10) T	Anthracene (C19.43)	10.558	6492907	40.603 ug/ml
12) T	Fluoranthene (C21.85)	12.288	6978772	42.404 ug/mlm
13) T	Pyrene (C20.8)	12.581	6750132	41.906 ug/ml
14) T	Benzo[a]anthracene (C...	14.451	6420224	43.909 ug/ml
15) T	Chrysene (C27.41)	14.494	6549280	39.815 ug/ml
16) T	benzo[b]fluoranthene ...	16.000	6486083	42.663 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.034	6702146	44.591 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.375	6261014	41.603 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.743	6276470	48.104 ug/ml
20) T	Dibenz[a,h]anthracene...	17.780	6346574	38.999 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.994	6059040	39.578 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

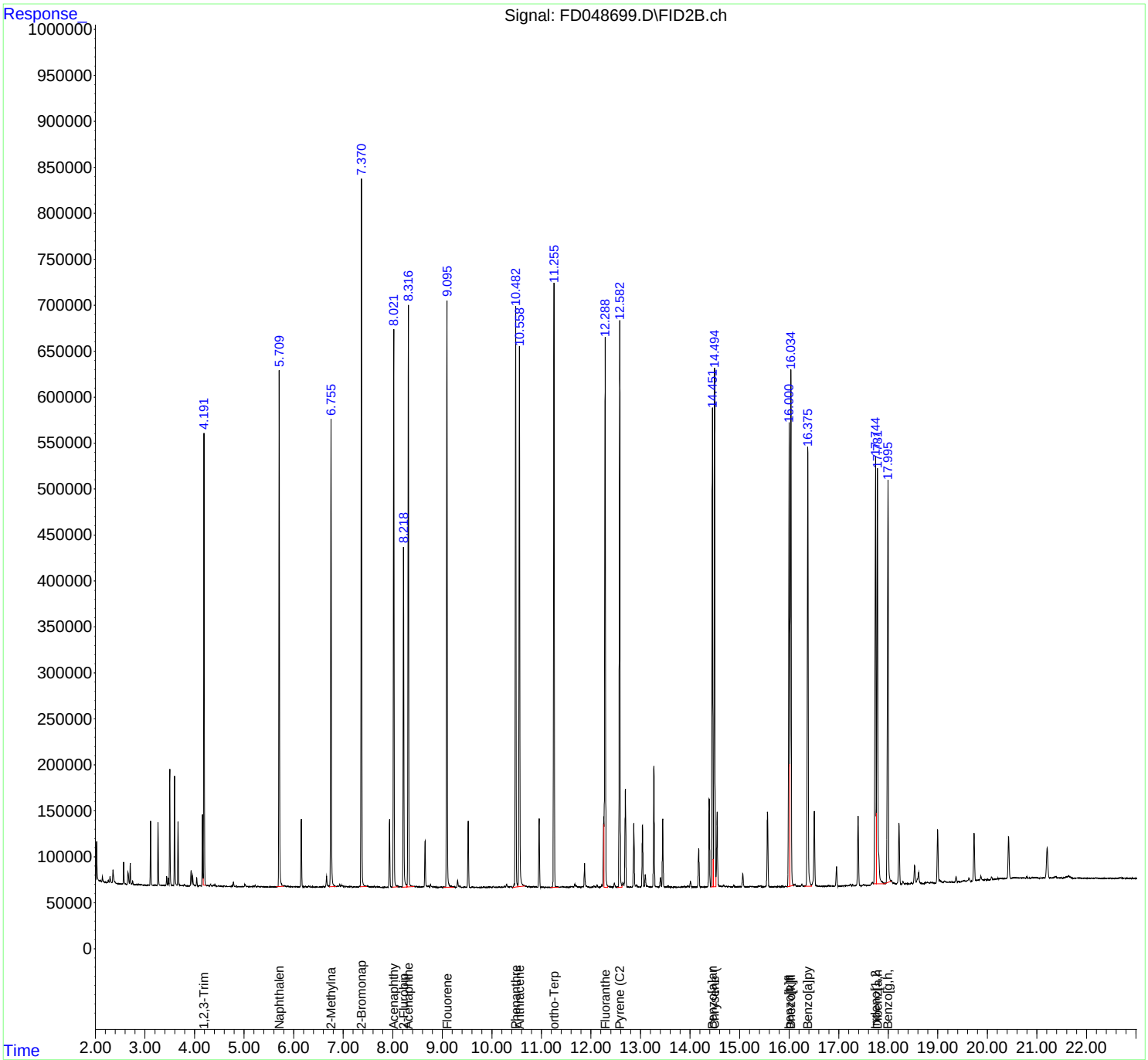
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048699.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 15:56
Operator : YP/AJ
Sample : PB164847BS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:46:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
PB164847BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024



12

Instrument :
FID_D
ClientSampleId :
PB164847BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11112
Data File : FD048699.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 15:56
Sample : PB164847BS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.191	4.173	4.248	M	492308	4228920	55.44%	3.265%
2	5.709	5.648	5.803	BV	555361	5136931	67.34%	3.966%
3	6.755	6.721	6.861	VV	504455	5031320	65.96%	3.884%
4	7.370	7.340	7.478	PV	774614	7311826	95.85%	5.645%
5	8.021	7.990	8.108	PV	608164	6036188	79.13%	4.660%
6	8.218	8.194	8.287	BV	368381	3737514	49.00%	2.885%
7	8.316	8.287	8.438	VB	640144	6219519	81.53%	4.802%
8	9.095	9.018	9.228	BV	634138	6395178	83.84%	4.937%
9	10.483	10.414	10.527	BV	622825	6554307	85.92%	5.060%
10	10.558	10.527	10.666	VV	584012	6492907	85.12%	5.013%
11	11.256	11.178	11.351	BV	658502	6906333	90.54%	5.332%
12	12.288	12.232	12.421	VB	597732	7628203	100.00%	5.889%
13	12.581	12.538	12.626	BV	611927	6750132	88.49%	5.211%
14	14.451	14.415	14.470	PV	522107	6420224	84.16%	4.957%
15	14.494	14.470	14.523	VV	563184	6549280	85.86%	5.056%
16	16.000	15.961	16.015	BV	508864	6486083	85.03%	5.007%
17	16.034	16.015	16.096	VV	565238	6702146	87.86%	5.174%
18	16.375	16.304	16.451	BV	478021	6261014	82.08%	4.834%
19	17.743	17.701	17.758	BV	474859	6276470	82.28%	4.846%
20	17.780	17.758	17.923	VV	454987	6346574	83.20%	4.900%
21	17.994	17.923	18.058	PV	437905	6059040	79.43%	4.678%

Sum of corrected areas: 129530109

Aromatic EPH 102324.M Tue Nov 12 03:25:30 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067672.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 17:32
Operator : YP/AJ
Sample : PB164790BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164790BSD

Integration File: autoint1.e
Quant Time: Nov 09 01:37:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.932	4324971	40.050 ug/ml
Spiked Amount	50.000		Recovery =	80.10%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3018558	22.406 ug/ml
2) T	n-Decane (C10)	4.336	3676514	26.984 ug/ml
4) T	n-Dodecane (C12)	6.351	4109531	30.342 ug/ml
6) T	n-Tetradecane (C14)	8.144	4310746	32.841 ug/ml
7) T	n-Hexadecane (C16)	9.742	4685378	35.468 ug/ml
8) T	n-Octadecane (C18)	11.182	5078899	38.444 ug/ml
10) T	n-Eicosane (C20)	12.489	5289322	41.920 ug/ml
11) T	n-Heneicosane (C21)	13.101	5124280	41.521 ug/ml
13) T	n-Docosane (C22)	13.686	5116690	41.786 ug/ml
14) T	n-Tetracosane (C24)	14.787	5054933	41.704 ug/ml
15) T	n-Hexacosane (C26)	15.806	4971810	41.760 ug/ml
16) T	n-Octacosane (C28)	16.755	4923078	41.846 ug/ml
17) T	n-Tricontane (C30)	17.642	4936312	40.839 ug/ml
18) T	n-Dotriacontane (C32)	18.474	4880655	41.249 ug/ml
19) T	n-Tetratriacontane (C34)	19.254	4852955	46.339 ug/ml
20) T	n-Hexatriacontane (C36)	19.994	4714626	51.794 ug/ml
21) T	n-Octatriacontane (C38)	20.717	4712530	54.416 ug/ml
22) T	n-Tetracontane (C40)	21.601	4651504	54.717 ug/ml

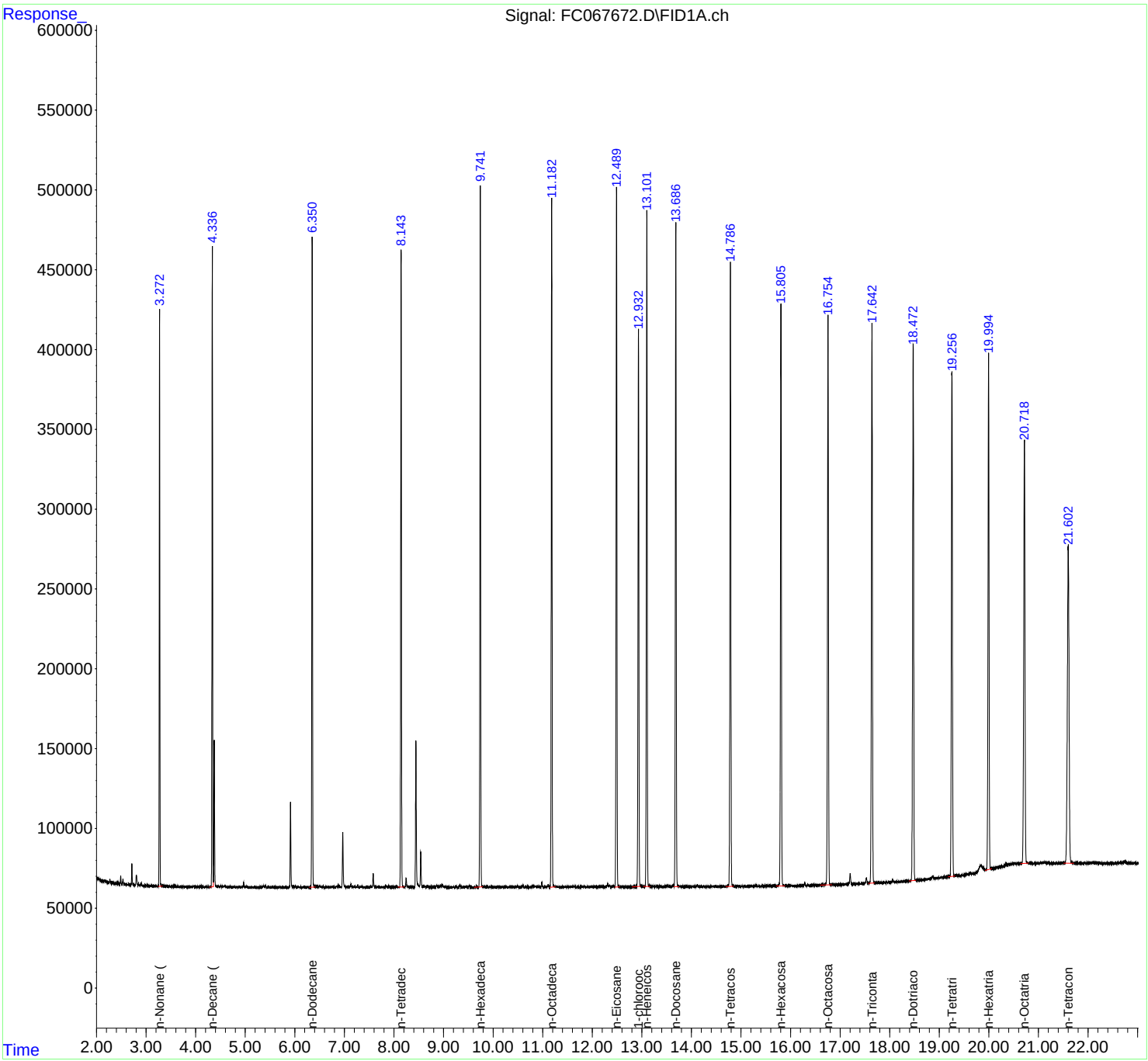
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067672.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 17:32
Operator : YP/AJ
Sample : PB164790BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164790BSD

Integration File: autoint1.e
Quant Time: Nov 09 01:37:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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\FC110824AL\
Data File : FC067672.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 17:32
Sample : PB164790BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.272	3.245	3.334	BB	360406	3018558	57.07%	3.413%
2	4.336	4.279	4.358	BV	402060	3676514	69.51%	4.157%
3	6.351	6.292	6.418	BV	407373	4109531	77.69%	4.647%
4	8.144	8.084	8.209	BB	399708	4310746	81.50%	4.875%
5	9.742	9.615	9.797	BB	438895	4685378	88.58%	5.298%
6	11.182	11.147	11.259	BB	431463	5078899	96.02%	5.743%
7	12.489	12.449	12.555	PB	436428	5289322	100.00%	5.981%
8	12.932	12.797	12.980	BB	346414	4324971	81.77%	4.891%
9	13.101	13.030	13.169	BB	424209	5124280	96.88%	5.795%
10	13.686	13.648	13.754	VB	413820	5116690	96.74%	5.786%
11	14.787	14.697	14.854	BB	389415	5054933	95.57%	5.716%
12	15.806	15.717	15.892	BB	365063	4971810	94.00%	5.622%
13	16.755	16.602	16.832	BB	357025	4923078	93.08%	5.567%
14	17.642	17.575	17.697	BB	350200	4936312	93.33%	5.582%
15	18.474	18.390	18.529	BB	335239	4880655	92.27%	5.519%
16	19.254	19.180	19.319	BB	315636	4852955	91.75%	5.488%
17	19.994	19.930	20.055	VB	323717	4714626	89.13%	5.331%
18	20.717	20.637	20.797	BB	265275	4712530	89.10%	5.329%
19	21.601	21.510	21.710	BB	198145	4651504	87.94%	5.260%
			Sum of corrected areas:			88433290		

Aliphatic EPH 102324.M Sat Nov 09 02:12:45 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048675.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 17:32
Operator : YP/AJ
Sample : PB164790BSD
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:07:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
PB164790BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.369	6877746	45.314 ug/ml
Spiked Amount	50.000		Recovery =	90.63%
6) S	2-Flurobiphenyl (SURR)	8.219	3464981	35.288 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	70.58%
11) S	ortho-Terphenyl (SURR)	11.255	6405825	37.606 ug/ml
Spiked Amount	50.000		Recovery =	75.21%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.191	3959594	22.760 ug/mlm
2) T	Naphthalene (C11.7)	5.709	4792890	26.861 ug/ml
3) T	2-Methylnaphthalene (...	6.756	4740853	26.505 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	5623965	32.029 ug/ml
7) T	Acenaphthene (C15.5)	8.316	5809960	32.757 ug/ml
8) T	Flouorene (C16.55)	9.094	5934035	35.105 ug/ml
9) T	Phenanthrene (C19.36)	10.482	6081312	36.788 ug/ml
10) T	Anthracene (C19.43)	10.558	6151321	38.467 ug/ml
12) T	Fluoranthene (C21.85)	12.287	6271492	38.107 ug/mlm
13) T	Pyrene (C20.8)	12.580	6238203	38.728 ug/ml
14) T	Benzo[a]anthracene (C...	14.450	5902174	40.366 ug/ml
15) T	Chrysene (C27.41)	14.491	5958969	36.226 ug/ml
16) T	benzo[b]fluoranthene ...	15.998	6007655	39.516 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.031	5996900	39.899 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.373	5791779	38.485 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.740	5692040	43.624 ug/ml
20) T	Dibenz[a,h]anthracene...	17.777	5872433	36.086 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.990	5798055	37.873 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

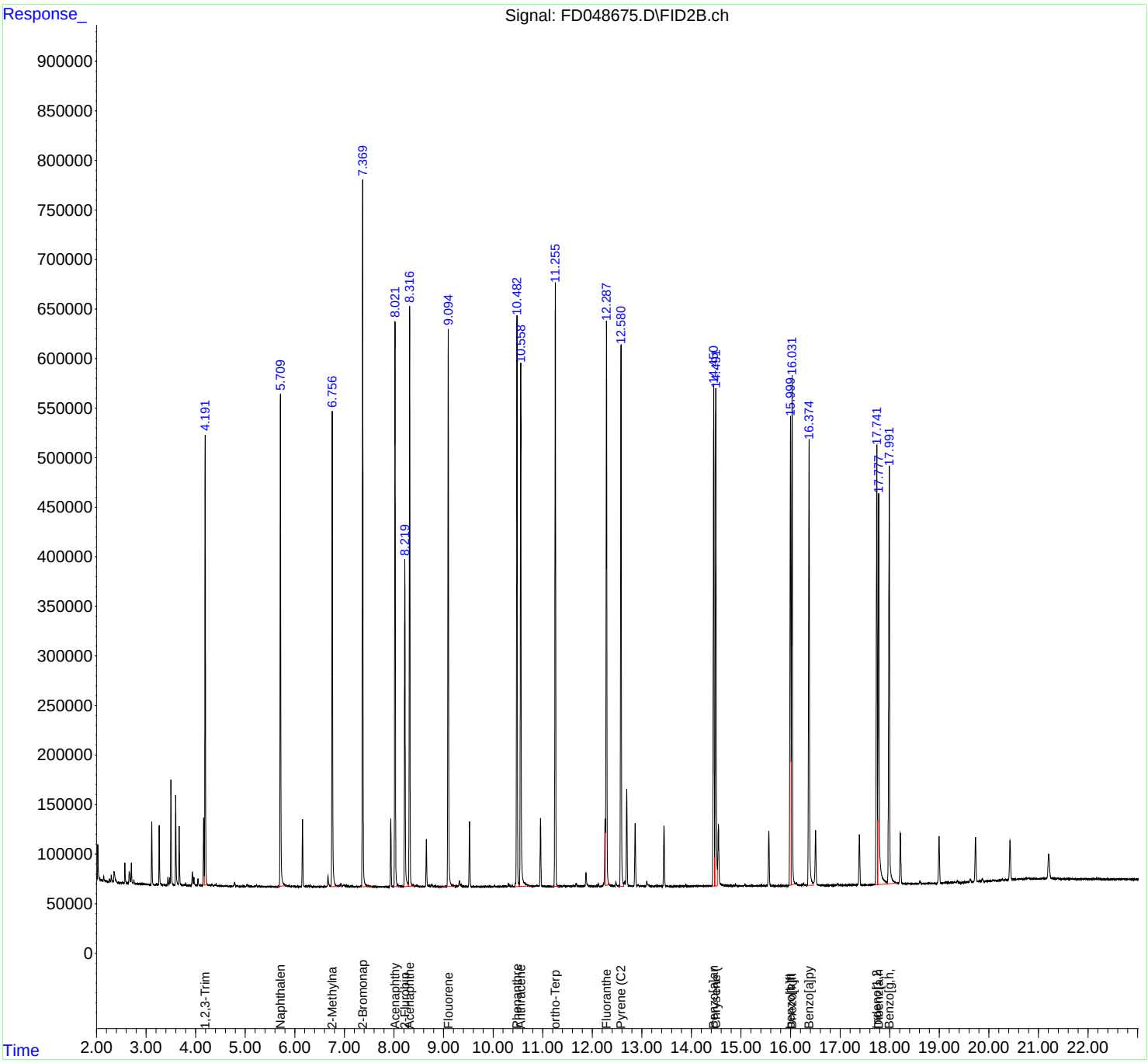
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048675.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 17:32
Operator : YP/AJ
Sample : PB164790BSD
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:07:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
PB164790BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024



12

Instrument :
FID_D
ClientSampleId :
PB164790BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11082
Data File : FD048675.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 17:32
Sample : PB164790BSD
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.191	4.175	4.245	M	454791	3981411	56.15%	3.312%
2	5.709	5.618	5.808	BV	493060	4792890	67.60%	3.987%
3	6.756	6.724	6.888	VV	473124	4740853	66.86%	3.944%
4	7.369	7.341	7.548	VB	703893	6877746	97.00%	5.721%
5	8.021	7.979	8.111	PV	570400	5623965	79.32%	4.678%
6	8.219	8.188	8.291	PV	328569	3464981	48.87%	2.882%
7	8.316	8.291	8.434	VB	585800	5809960	81.94%	4.833%
8	9.094	8.974	9.237	BV	562469	5934035	83.69%	4.936%
9	10.482	10.415	10.527	PV	574168	6081312	85.77%	5.059%
10	10.558	10.527	10.738	VV	527023	6151321	86.75%	5.117%
11	11.255	11.181	11.327	BV	604759	6405825	90.34%	5.329%
12	12.287	12.174	12.454	BB	573659	7090465	100.00%	5.898%
13	12.580	12.527	12.634	PV	553354	6238203	87.98%	5.189%
14	14.450	14.411	14.469	BV	508199	5902174	83.24%	4.910%
15	14.491	14.469	14.524	VV	499582	5958969	84.04%	4.957%
16	15.998	15.961	16.013	BV	465683	6007655	84.73%	4.998%
17	16.031	16.013	16.098	VV	513275	5996900	84.58%	4.989%
18	16.373	16.314	16.457	BV	452492	5791779	81.68%	4.818%
19	17.740	17.701	17.756	BV	446785	5692040	80.28%	4.735%
20	17.777	17.756	17.950	VV	396284	5872433	82.82%	4.885%
21	17.990	17.950	18.154	VV	422361	5798055	81.77%	4.823%
			Sum of corrected areas:			120212971		

Aromatic EPH 102324.M Sat Nov 09 03:26:16 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067696.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 16:33
Operator : YP/AJ
Sample : PB164847BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164847BSD

Integration File: autoint1.e
Quant Time: Nov 11 20:45:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.932	4938817	45.735 ug/ml
Spiked Amount	50.000		Recovery =	91.47%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3375461	25.055 ug/ml
2) T	n-Decane (C10)	4.336	4134427	30.345 ug/ml
4) T	n-Dodecane (C12)	6.351	4643648	34.285 ug/ml
6) T	n-Tetradecane (C14)	8.143	4895072	37.293 ug/ml
7) T	n-Hexadecane (C16)	9.741	5333506	40.374 ug/ml
8) T	n-Octadecane (C18)	11.182	5822215	44.070 ug/ml
10) T	n-Eicosane (C20)	12.490	6086187	48.235 ug/ml
11) T	n-Heneicosane (C21)	13.101	5889690	47.723 ug/ml
13) T	n-Docosane (C22)	13.687	5941939	48.526 ug/ml
14) T	n-Tetracosane (C24)	14.788	5949354	49.083 ug/ml
15) T	n-Hexacosane (C26)	15.808	5924239	49.760 ug/ml
16) T	n-Octacosane (C28)	16.756	5908529	50.222 ug/ml
17) T	n-Tricontane (C30)	17.642	5876894	48.621 ug/ml
18) T	n-Dotriacontane (C32)	18.473	5775349	48.811 ug/ml
19) T	n-Tetratriacontane (C34)	19.255	5637909	53.834 ug/ml
20) T	n-Hexatriacontane (C36)	19.993	5438372	59.745 ug/ml
21) T	n-Octatriacontane (C38)	20.716	5371599	62.026 ug/ml
22) T	n-Tetracontane (C40)	21.601	5296052	62.299 ug/ml

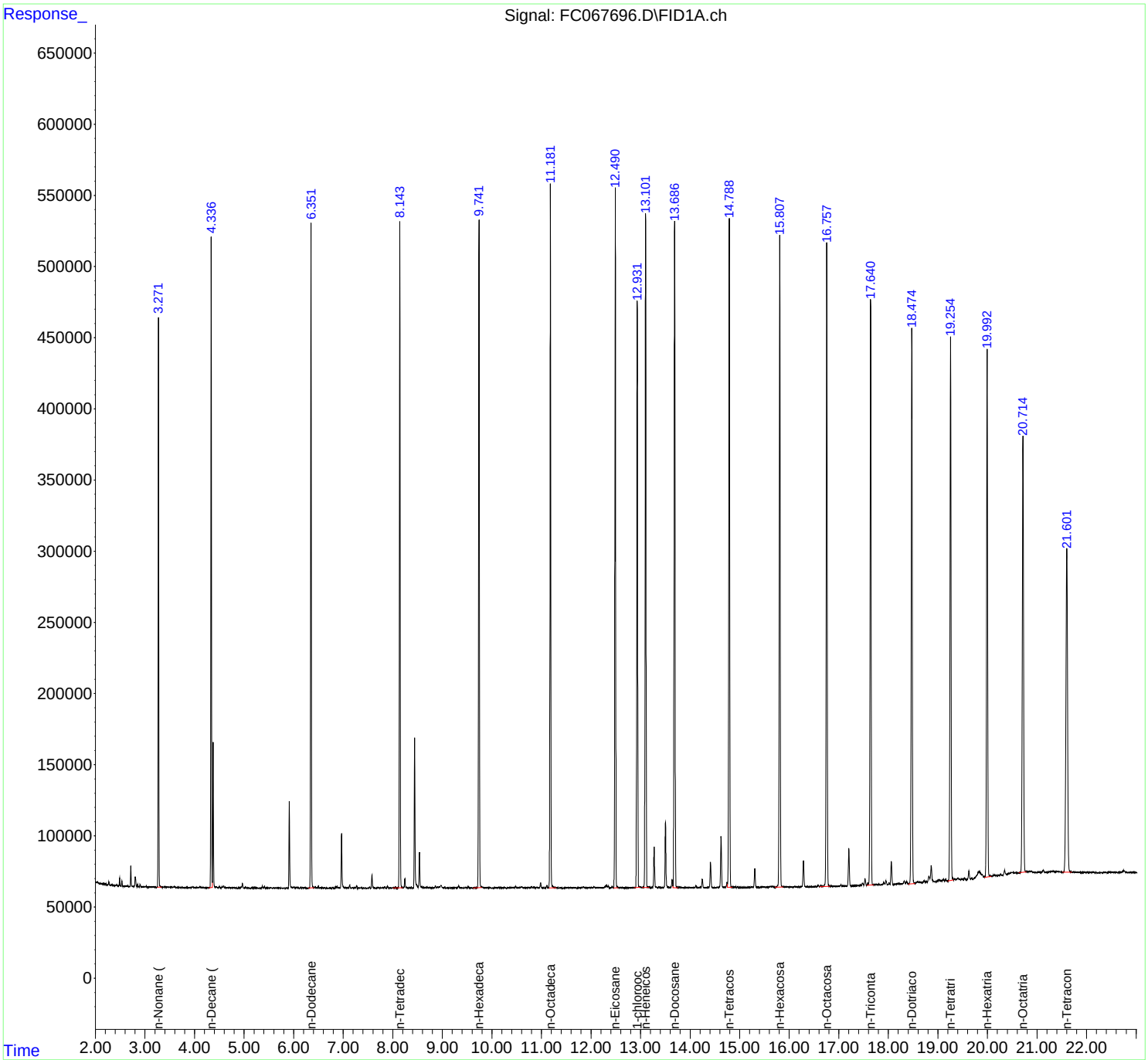
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111124AL\
Data File : FC067696.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 16:33
Operator : YP/AJ
Sample : PB164847BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164847BSD

Integration File: autoint1.e
Quant Time: Nov 11 20:45:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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\FC111124AL\
Data File : FC067696.D
Signal(s) : FID1A.ch
Acq On : 11 Nov 2024 16:33
Sample : PB164847BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.272	3.245	3.338	BB	399869	3375461	55.46%	3.302%
2	4.336	4.280	4.358	BV	459984	4134427	67.93%	4.044%
3	6.351	6.295	6.417	BV	467652	4643648	76.30%	4.542%
4	8.143	8.002	8.207	BB	469431	4895072	80.43%	4.788%
5	9.741	9.625	9.798	BB	468885	5333506	87.63%	5.217%
6	11.182	11.148	11.295	BB	492731	5822215	95.66%	5.695%
7	12.490	12.452	12.552	PB	492802	6086187	100.00%	5.953%
8	12.932	12.863	12.990	BB	410571	4938817	81.15%	4.831%
9	13.101	13.030	13.173	BB	473466	5889690	96.77%	5.761%
10	13.687	13.652	13.752	VB	467342	5941939	97.63%	5.812%
11	14.788	14.753	14.853	VB	470583	5949354	97.75%	5.819%
12	15.808	15.710	15.880	BB	459077	5924239	97.34%	5.794%
13	16.756	16.615	16.827	BB	452658	5908529	97.08%	5.779%
14	17.642	17.562	17.707	PB	405003	5876894	96.56%	5.748%
15	18.473	18.407	18.543	BV	389678	5775349	94.89%	5.649%
16	19.255	19.193	19.320	BV	380343	5637909	92.63%	5.514%
17	19.993	19.942	20.080	VB	370532	5438372	89.36%	5.319%
18	20.716	20.630	20.788	BB	305836	5371599	88.26%	5.254%
19	21.601	21.510	21.707	BB	227054	5296052	87.02%	5.180%

Sum of corrected areas: 102239258

Aliphatic EPH 102324.M Tue Nov 12 01:27:11 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048700.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 16:33
Operator : YP/AJ
Sample : PB164847BSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164847BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File: autoint1.e
Quant Time: Nov 11 20:46:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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...	7.369	7162920	47.193 ug/ml
	Spiked Amount 50.000		Recovery =	94.39%
6)	S 2-Flurobiphenyl (SURR)	8.218	3663603	37.311 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	74.62%
11)	S ortho-Terphenyl (SURR)	11.256	6726567	39.489 ug/ml
	Spiked Amount 50.000		Recovery =	78.98%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.191	4143255	23.816 ug/mlm
2)	T Naphthalene (C11.7)	5.708	5051101	28.308 ug/ml
3)	T 2-Methylnaphthalene (...	6.755	4942431	27.632 ug/ml
5)	T Acenaphthylene (C15.06)	8.021	5919725	33.713 ug/ml
7)	T Acenaphthene (C15.5)	8.316	6095187	34.366 ug/ml
8)	T Flouorene (C16.55)	9.095	6276534	37.131 ug/ml
9)	T Phenanthrene (C19.36)	10.483	6388007	38.644 ug/ml
10)	T Anthracene (C19.43)	10.559	6331410	39.594 ug/ml
12)	T Fluoranthene (C21.85)	12.288	6764527	41.103 ug/mlm
13)	T Pyrene (C20.8)	12.581	6588574	40.903 ug/ml
14)	T Benzo[a]anthracene (C...	14.451	6290265	43.021 ug/ml
15)	T Chrysene (C27.41)	14.494	6416266	39.006 ug/ml
16)	T benzo[b]fluoranthene ...	15.999	6366342	41.876 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.033	6569676	43.709 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.375	6143108	40.819 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.743	6165507	47.253 ug/ml
20)	T Dibenz[a,h]anthracene...	17.780	6332908	38.915 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.994	5934771	38.766 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

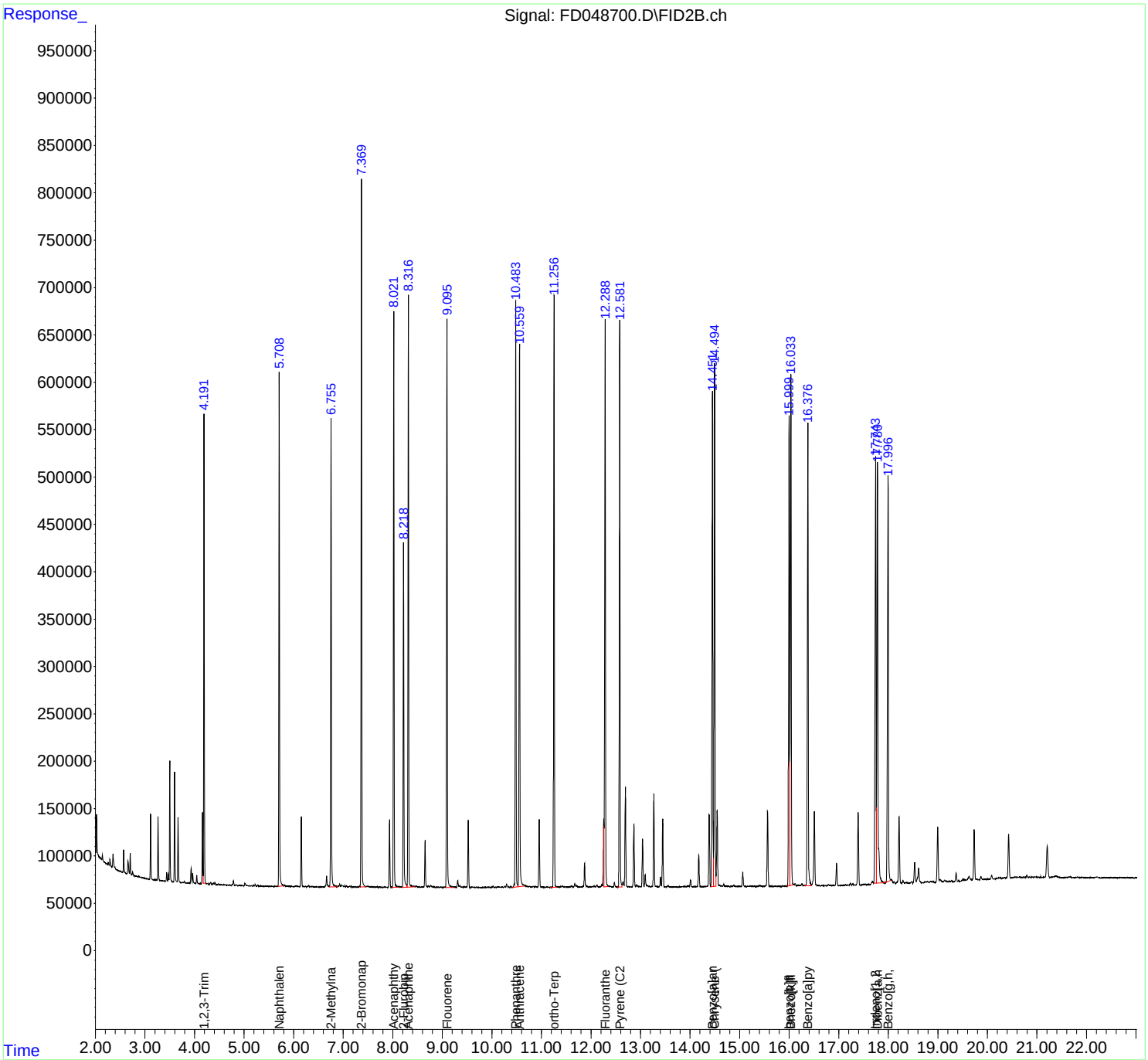
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111124AR\
Data File : FD048700.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 16:33
Operator : YP/AJ
Sample : PB164847BSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164847BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Integration File: autoint1.e
Quant Time: Nov 11 20:46:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



12

Instrument :
FID_D
ClientSampleId :
PB164847BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/12/2024
Supervised By :Ankita Jodhani 11/12/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11112
Data File : FD048700.D
Signal(s) : FID2B.ch
Acq On : 11 Nov 2024 16:33
Sample : PB164847BSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.191	4.174	4.247	M	496695	4174406	58.28%	3.306%
2	5.708	5.681	5.801	PV	536837	5051101	70.52%	4.001%
3	6.755	6.721	6.884	VV	491955	4942431	69.00%	3.915%
4	7.369	7.340	7.468	VV	742749	7162920	100.00%	5.673%
5	8.021	7.986	8.104	VV	605700	5919725	82.64%	4.689%
6	8.218	8.190	8.287	PV	361999	3663603	51.15%	2.902%
7	8.316	8.287	8.451	VV	620712	6095187	85.09%	4.828%
8	9.095	9.063	9.234	VV	598555	6276534	87.63%	4.971%
9	10.483	10.411	10.527	PV	625648	6388007	89.18%	5.060%
10	10.559	10.527	10.666	VV	566848	6331410	88.39%	5.015%
11	11.256	11.184	11.321	BV	629143	6726567	93.91%	5.328%
12	12.288	12.263	12.342	M	598254	6714774	93.74%	5.318%
13	12.581	12.534	12.628	BV	598646	6588574	91.98%	5.219%
14	14.451	14.415	14.470	PV	524902	6290265	87.82%	4.982%
15	14.494	14.470	14.523	VV	554627	6416266	89.58%	5.082%
16	15.999	15.961	16.014	BV	493570	6366342	88.88%	5.042%
17	16.033	16.014	16.097	VV	546563	6569676	91.72%	5.204%
18	16.375	16.308	16.452	BV	483449	6143108	85.76%	4.866%
19	17.743	17.701	17.759	BV	456104	6165507	86.08%	4.883%
20	17.780	17.759	17.924	VV	450605	6332908	88.41%	5.016%
21	17.994	17.924	18.053	PV	425390	5934771	82.85%	4.701%
			Sum of corrected areas:			126254081		

Aromatic EPH 102324.M Tue Nov 12 03:26:28 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067675.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 19:21
Operator : YP/AJ
Sample : P4718-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB01MS

Integration File: autoint1.e
Quant Time: Nov 09 01:37:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.931	3816372	35.341 ug/ml
Spiked Amount	50.000		Recovery =	70.68%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	4028331	29.901 ug/ml
2) T	n-Decane (C10)	4.337	4920925	36.118 ug/ml
4) T	n-Dodecane (C12)	6.351	5720765	42.238 ug/ml
6) T	n-Tetradecane (C14)	8.146	9189897	70.013 ug/ml
7) T	n-Hexadecane (C16)	9.742	6678611	50.556 ug/ml
8) T	n-Octadecane (C18)	11.182	6814199	51.578 ug/ml
10) T	n-Eicosane (C20)	12.490	6888680	54.595 ug/ml
11) T	n-Heneicosane (C21)	13.101	6614678	53.597 ug/ml
13) T	n-Docosane (C22)	13.686	6592767	53.841 ug/ml
14) T	n-Tetracosane (C24)	14.787	6512227	53.727 ug/ml
15) T	n-Hexacosane (C26)	15.807	6412721	53.863 ug/ml
16) T	n-Octacosane (C28)	16.756	6354156	54.010 ug/ml
17) T	n-Tricontane (C30)	17.641	6391706	52.880 ug/ml
18) T	n-Dotriacontane (C32)	18.473	6329061	53.491 ug/ml
19) T	n-Tetratriacontane (C34)	19.255	6311830	60.269 ug/ml
20) T	n-Hexatriacontane (C36)	19.993	6147932	67.540 ug/ml
21) T	n-Octatriacontane (C38)	20.717	6182958	71.395 ug/ml
22) T	n-Tetracontane (C40)	21.602	6117535	71.962 ug/ml

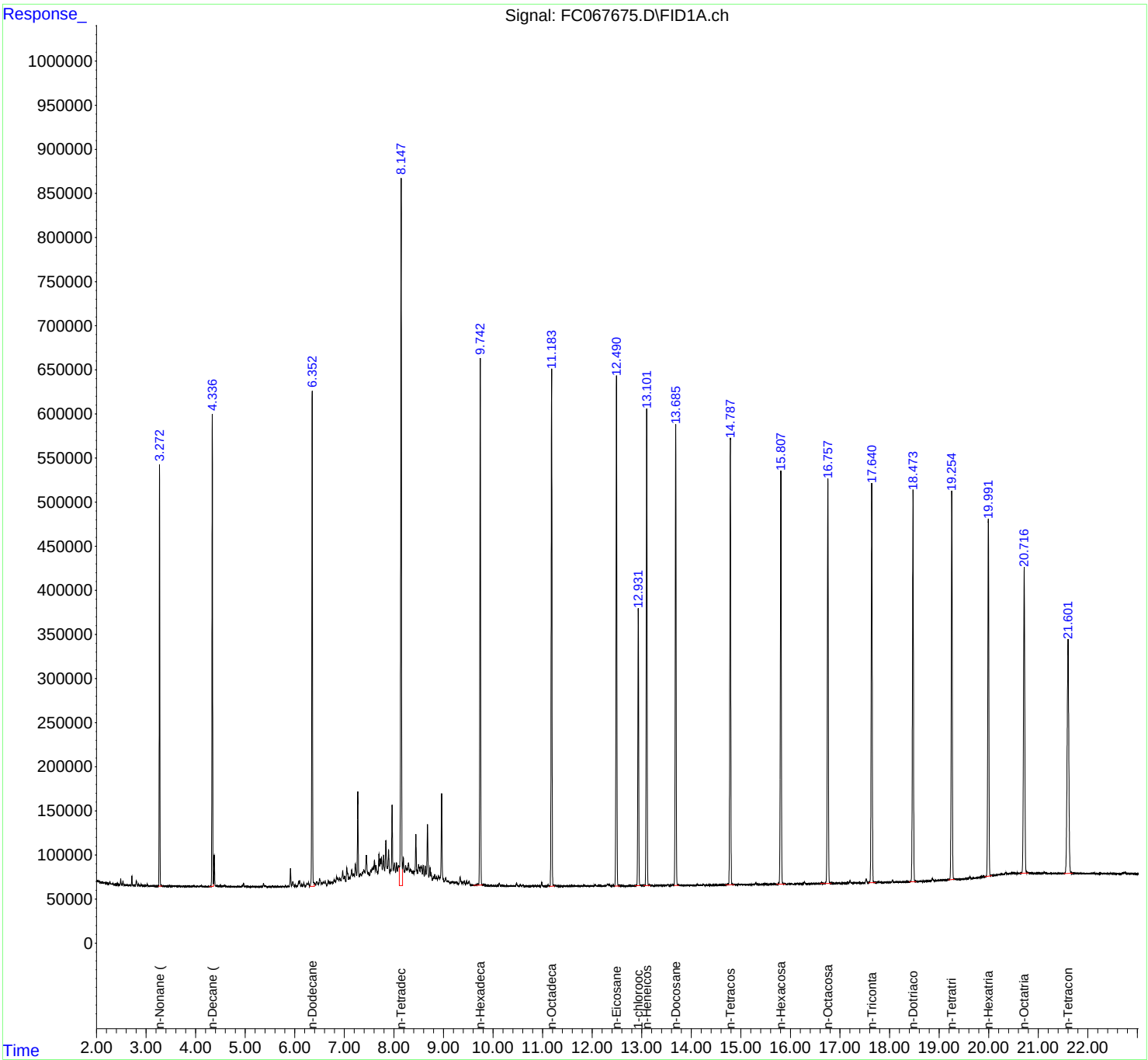
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067675.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 19:21
Operator : YP/AJ
Sample : P4718-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB01MS

Integration File: autoint1.e
Quant Time: Nov 09 01:37:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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\FC110824AL\
Data File : FC067675.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 19:21
Sample : P4718-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.272	3.204	3.357	BV	474677	4042307	43.75%	2.619%
2	3.368	3.357	3.378	VV	225	2151	0.02%	0.001%
3	3.395	3.378	3.438	VV	305	6701	0.07%	0.004%
4	3.471	3.438	3.501	VV	308	5846	0.06%	0.004%
5	3.510	3.501	3.521	PV	130	1265	0.01%	0.001%
6	3.548	3.521	3.565	VV	495	7847	0.08%	0.005%
7	3.590	3.565	3.631	VV	473	8410	0.09%	0.005%
8	3.642	3.631	3.688	VV	435	5804	0.06%	0.004%
9	3.699	3.688	3.745	VV	198	4179	0.05%	0.003%
10	3.763	3.745	3.797	PV	377	4486	0.05%	0.003%
11	3.809	3.797	3.819	VV	156	1124	0.01%	0.001%
12	3.851	3.819	3.904	VV	272	6785	0.07%	0.004%
13	3.938	3.904	3.950	PV	793	9124	0.10%	0.006%
14	3.965	3.950	3.987	VV	1272	12195	0.13%	0.008%
15	3.998	3.987	4.013	VV	154	1656	0.02%	0.001%
16	4.032	4.013	4.058	VV	526	5651	0.06%	0.004%
17	4.112	4.058	4.129	VV	995	16302	0.18%	0.011%
18	4.140	4.129	4.167	VV	285	4851	0.05%	0.003%
19	4.181	4.167	4.215	VV	222	3811	0.04%	0.002%
20	4.249	4.215	4.268	VV	323	4477	0.05%	0.003%
21	4.337	4.268	4.360	VV	535777	4933894	53.40%	3.197%
22	4.376	4.360	4.421	VV	35597	343549	3.72%	0.223%
23	4.435	4.421	4.467	VV	1314	20321	0.22%	0.013%
24	4.503	4.467	4.521	VV	1454	21703	0.23%	0.014%
25	4.533	4.521	4.543	VV	539	6055	0.07%	0.004%

rteres

26	4.558	4.543	4.572	VV	1140	12660	0.14%	0.008%
27	4.588	4.572	4.606	VV	2196	21318	0.23%	0.014%
28	4.618	4.606	4.632	VV	534	5414	0.06%	0.004%
29	4.645	4.632	4.655	VV	256	3044	0.03%	0.002%
30	4.662	4.655	4.691	VV	266	3941	0.04%	0.003%
31	4.707	4.691	4.732	VV	438	7143	0.08%	0.005%
32	4.744	4.732	4.763	VV	270	3547	0.04%	0.002%
33	4.774	4.763	4.783	VV	186	1711	0.02%	0.001%
34	4.804	4.783	4.843	VV	321	4858	0.05%	0.003%
35	4.854	4.843	4.878	PV	108	1288	0.01%	0.001%
36	4.888	4.878	4.906	VV	253	3288	0.04%	0.002%
37	4.967	4.906	4.997	VV	4208	58475	0.63%	0.038%
38	5.021	4.997	5.061	VV	1027	16515	0.18%	0.011%
39	5.074	5.061	5.113	VV	449	5852	0.06%	0.004%
40	5.168	5.113	5.216	PV	325	10960	0.12%	0.007%
41	5.230	5.216	5.248	VV	264	3294	0.04%	0.002%
42	5.257	5.248	5.270	VV	217	2252	0.02%	0.001%
43	5.280	5.270	5.308	VV	161	2754	0.03%	0.002%
44	5.333	5.308	5.346	VV	203	3443	0.04%	0.002%
45	5.369	5.346	5.399	VV	4086	50314	0.54%	0.033%
46	5.410	5.399	5.451	VV	1413	16662	0.18%	0.011%
47	5.466	5.451	5.501	VV	441	4987	0.05%	0.003%
48	5.519	5.501	5.527	VV	247	2006	0.02%	0.001%
49	5.549	5.527	5.590	VV	1590	17927	0.19%	0.012%
50	5.625	5.590	5.638	PV	339	4884	0.05%	0.003%
51	5.663	5.638	5.698	VV	473	9669	0.10%	0.006%
52	5.716	5.698	5.728	VV	298	3367	0.04%	0.002%
53	5.759	5.728	5.790	VV	930	13641	0.15%	0.009%
54	5.810	5.790	5.841	VV	872	12181	0.13%	0.008%
55	5.858	5.841	5.883	VV	874	11107	0.12%	0.007%
56	5.914	5.883	5.938	VV	20965	216282	2.34%	0.140%
57	5.961	5.938	5.992	VV	5875	103685	1.12%	0.067%
58	6.009	5.992	6.050	VV	1952	33419	0.36%	0.022%
59	6.099	6.050	6.123	VV	6934	159475	1.73%	0.103%
60	6.141	6.123	6.164	VV	2648	37245	0.40%	0.024%
61	6.183	6.164	6.210	VV	4751	58434	0.63%	0.038%
62	6.246	6.210	6.262	VV	3582	65876	0.71%	0.043%
63	6.278	6.262	6.300	VV	4691	63133	0.68%	0.041%
64	6.351	6.300	6.396	VV	561082	5749930	62.24%	3.725%
65	6.406	6.396	6.422	VV	4525	50831	0.55%	0.033%
66	6.445	6.422	6.466	VV	5816	112393	1.22%	0.073%
67	6.501	6.466	6.534	VV	9353	225373	2.44%	0.146%
68	6.549	6.534	6.556	VV	4049	50884	0.55%	0.033%
69	6.574	6.556	6.594	VV	5305	101006	1.09%	0.065%

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70	6.611	6.594	6.644	VV	6721	130130	1.41%	0.084%
71	6.679	6.644	6.696	VV	6116	128803	1.39%	0.083%
72	6.708	6.696	6.721	VV	4930	68387	0.74%	0.044%
73	6.747	6.721	6.770	VV	5126	137359	1.49%	0.089%
74	6.792	6.770	6.826	VV	7742	199949	2.16%	0.130%
75	6.844	6.826	6.859	VV	11525	174180	1.89%	0.113%
76	6.871	6.859	6.889	VV	10115	159981	1.73%	0.104%
77	6.908	6.889	6.934	VV	9776	219017	2.37%	0.142%
78	6.968	6.934	6.988	VV	18002	373825	4.05%	0.242%
79	7.006	6.988	7.027	VV	11937	220576	2.39%	0.143%
80	7.051	7.027	7.088	VV	21494	501424	5.43%	0.325%
81	7.101	7.088	7.114	VV	10460	151525	1.64%	0.098%
82	7.149	7.114	7.168	VV	19258	443967	4.81%	0.288%
83	7.184	7.168	7.203	VV	14124	285794	3.09%	0.185%
84	7.223	7.203	7.248	VV	25588	504653	5.46%	0.327%
85	7.272	7.248	7.302	VV	106623	1365398	14.78%	0.885%
86	7.323	7.302	7.347	VV	14160	357252	3.87%	0.231%
87	7.393	7.347	7.417	VV	18859	681196	7.37%	0.441%
88	7.445	7.417	7.475	VV	35706	799750	8.66%	0.518%
89	7.488	7.475	7.510	VV	15835	310627	3.36%	0.201%
90	7.532	7.510	7.544	VV	18978	329119	3.56%	0.213%
91	7.582	7.544	7.592	VV	22184	577753	6.25%	0.374%
92	7.608	7.592	7.624	VV	30480	462419	5.01%	0.300%
93	7.639	7.624	7.677	VV	24267	612097	6.63%	0.397%
94	7.699	7.677	7.713	VV	36815	566126	6.13%	0.367%
95	7.726	7.713	7.738	VV	31496	413633	4.48%	0.268%
96	7.750	7.738	7.767	VV	33596	474911	5.14%	0.308%
97	7.792	7.767	7.812	VV	35658	705270	7.63%	0.457%
98	7.838	7.812	7.866	VV	52343	1025819	11.10%	0.665%
99	7.893	7.866	7.918	VV	41320	824872	8.93%	0.534%
100	7.963	7.918	7.988	VV	92665	1521997	16.47%	0.986%
101	8.012	7.988	8.034	VV	26783	592296	6.41%	0.384%
102	8.052	8.034	8.071	VV	27082	484928	5.25%	0.314%
103	8.094	8.071	8.108	VV	23572	479857	5.19%	0.311%
104	8.146	8.108	8.173	VV	796582	9238962	100.00%	5.986%
105	8.191	8.173	8.216	VV	33023	600463	6.50%	0.389%
106	8.238	8.216	8.271	VV	23788	663702	7.18%	0.430%
107	8.294	8.271	8.314	VV	26853	571389	6.18%	0.370%
108	8.333	8.314	8.372	VV	19697	612109	6.63%	0.397%
109	8.386	8.372	8.401	VV	17129	280037	3.03%	0.181%
110	8.443	8.401	8.479	VV	59526	1216133	13.16%	0.788%
111	8.498	8.479	8.526	VV	25193	579540	6.27%	0.375%
112	8.545	8.526	8.574	VV	22737	574991	6.22%	0.373%

rteres

113	8.591	8.574	8.613	VV	23663	418198	4.53%	0.271%
114	8.631	8.613	8.648	VV	23016	369464	4.00%	0.239%
115	8.677	8.648	8.704	VV	70410	1099243	11.90%	0.712%
116	8.728	8.704	8.745	VV	21516	382894	4.14%	0.248%
117	8.753	8.745	8.776	VV	13727	201548	2.18%	0.131%
118	8.823	8.776	8.842	VV	13808	405602	4.39%	0.263%
119	8.859	8.842	8.878	VV	10772	199747	2.16%	0.129%
120	8.900	8.878	8.923	VV	12169	280283	3.03%	0.182%
121	8.963	8.923	9.022	VV	106081	1591885	17.23%	1.031%
122	9.045	9.022	9.070	VV	9759	213802	2.31%	0.139%
123	9.086	9.070	9.131	VV	6386	205012	2.22%	0.133%
124	9.165	9.131	9.174	VV	4933	117087	1.27%	0.076%
125	9.197	9.174	9.230	VV	5538	159571	1.73%	0.103%
126	9.261	9.230	9.308	VV	4806	187657	2.03%	0.122%
127	9.336	9.308	9.367	VV	10902	236377	2.56%	0.153%
128	9.380	9.367	9.395	VV	4956	71913	0.78%	0.047%
129	9.418	9.395	9.443	VV	6482	132608	1.44%	0.086%
130	9.467	9.443	9.485	VV	6281	108132	1.17%	0.070%
131	9.518	9.485	9.560	VV	6209	156312	1.69%	0.101%
132	9.572	9.560	9.631	VV	1985	64854	0.70%	0.042%
133	9.657	9.631	9.674	VV	2050	44452	0.48%	0.029%
134	9.695	9.674	9.707	VV	2713	44099	0.48%	0.029%
135	9.742	9.707	9.831	VV	590948	6787379	73.46%	4.397%
136	9.840	9.831	9.901	VV	1765	51668	0.56%	0.033%
137	9.907	9.901	9.937	VV	1085	19414	0.21%	0.013%
138	9.965	9.937	9.991	VV	1203	30017	0.32%	0.019%
139	10.014	9.991	10.036	VV	813	18267	0.20%	0.012%
140	10.059	10.036	10.070	VV	821	14213	0.15%	0.009%
141	10.085	10.070	10.098	VV	1174	15556	0.17%	0.010%
142	10.127	10.098	10.154	VV	3246	60730	0.66%	0.039%
143	10.174	10.154	10.195	VV	1086	21195	0.23%	0.014%
144	10.216	10.195	10.238	VV	1088	21121	0.23%	0.014%
145	10.271	10.238	10.307	VV	896	22653	0.25%	0.015%
146	10.339	10.307	10.351	VV	587	11053	0.12%	0.007%
147	10.373	10.351	10.390	VV	659	12090	0.13%	0.008%
148	10.411	10.390	10.441	VV	820	17515	0.19%	0.011%
149	10.477	10.441	10.518	VV	3734	59765	0.65%	0.039%
150	10.550	10.518	10.581	VV	1610	35680	0.39%	0.023%
151	10.604	10.581	10.626	VV	1364	23349	0.25%	0.015%
152	10.655	10.626	10.663	VV	325	6198	0.07%	0.004%
153	10.693	10.663	10.718	VV	419	9824	0.11%	0.006%
154	10.724	10.718	10.749	VV	247	4331	0.05%	0.003%
155	10.759	10.749	10.772	VV	226	2770	0.03%	0.002%

rteres

156	10.803	10.772	10.828	VV	719	13414	0.15%	0.009%
157	10.848	10.828	10.880	VV	980	16115	0.17%	0.010%
158	10.900	10.880	10.921	VV	705	10968	0.12%	0.007%
159	10.932	10.921	10.956	VV	360	5251	0.06%	0.003%
160	10.983	10.956	11.021	VV	4348	53222	0.58%	0.034%
161	11.042	11.021	11.079	PV	138	3305	0.04%	0.002%
162	11.109	11.079	11.138	VV	1684	22255	0.24%	0.014%
163	11.182	11.138	11.254	VV	571856	6833384	73.96%	4.427%
164	11.272	11.254	11.317	VV	969	18147	0.20%	0.012%
165	11.334	11.317	11.353	VV	314	3621	0.04%	0.002%
166	11.404	11.353	11.441	PV	168	5508	0.06%	0.004%
167	11.479	11.441	11.513	VV	382	11764	0.13%	0.008%
168	11.542	11.513	11.554	VV	359	7126	0.08%	0.005%
169	11.568	11.554	11.607	VV	624	10830	0.12%	0.007%
170	11.636	11.607	11.734	VV	547	18841	0.20%	0.012%
171	11.845	11.734	11.871	VV	1308	41169	0.45%	0.027%
172	11.895	11.871	11.915	VV	475	8377	0.09%	0.005%
173	11.936	11.915	11.959	VV	454	7784	0.08%	0.005%
174	11.981	11.959	11.994	VV	517	7330	0.08%	0.005%
175	12.003	11.994	12.028	VV	417	5554	0.06%	0.004%
176	12.064	12.028	12.101	VV	1071	26139	0.28%	0.017%
177	12.130	12.101	12.155	VV	633	15989	0.17%	0.010%
178	12.171	12.155	12.211	VV	545	12343	0.13%	0.008%
179	12.311	12.211	12.330	VV	2535	54965	0.59%	0.036%
180	12.348	12.330	12.388	VV	1827	28899	0.31%	0.019%
181	12.425	12.388	12.448	VV	1335	19797	0.21%	0.013%
182	12.490	12.448	12.568	VV	577030	6898194	74.66%	4.469%
183	12.588	12.568	12.624	VV	444	10961	0.12%	0.007%
184	12.629	12.624	12.718	VV	228	3963	0.04%	0.003%
185	12.742	12.718	12.768	VV	358	6680	0.07%	0.004%
186	12.773	12.768	12.794	VV	302	3268	0.04%	0.002%
187	12.808	12.794	12.823	VV	290	3025	0.03%	0.002%
188	12.847	12.823	12.864	PV	303	5010	0.05%	0.003%
189	12.931	12.864	13.020	VV	314732	3859358	41.77%	2.500%
190	13.035	13.020	13.058	VV	563	8941	0.10%	0.006%
191	13.101	13.058	13.241	VV	540983	6658259	72.07%	4.314%
192	13.259	13.241	13.281	VV	334	5640	0.06%	0.004%
193	13.302	13.281	13.338	VV	429	10718	0.12%	0.007%
194	13.376	13.338	13.424	VV	603	18801	0.20%	0.012%
195	13.475	13.424	13.493	VV	585	12192	0.13%	0.008%
196	13.526	13.493	13.574	VV	1501	27405	0.30%	0.018%
197	13.588	13.574	13.600	VV	341	3910	0.04%	0.003%
198	13.630	13.600	13.647	VV	1326	19157	0.21%	0.012%
199	13.686	13.647	13.761	VV	517790	6613346	71.58%	4.285%

rteres

200	13.770	13.761	13.794	VV	455	5453	0.06%	0.004%
201	13.802	13.794	13.849	VV	192	4587	0.05%	0.003%
202	13.907	13.849	13.960	VV	431	13951	0.15%	0.009%
203	13.994	13.960	14.044	VV	223	8500	0.09%	0.006%
204	14.064	14.044	14.078	PV	178	2361	0.03%	0.002%
205	14.118	14.078	14.154	VV	1271	22229	0.24%	0.014%
206	14.162	14.154	14.168	VV	257	1823	0.02%	0.001%
207	14.185	14.168	14.214	VV	270	5829	0.06%	0.004%
208	14.244	14.214	14.283	VV	1482	22687	0.25%	0.015%
209	14.301	14.283	14.316	VV	335	4501	0.05%	0.003%
210	14.325	14.316	14.349	VV	262	4617	0.05%	0.003%
211	14.361	14.349	14.370	VV	277	3036	0.03%	0.002%
212	14.386	14.370	14.416	VV	281	6401	0.07%	0.004%
213	14.443	14.416	14.474	VV	355	7411	0.08%	0.005%
214	14.489	14.474	14.513	VV	339	5771	0.06%	0.004%
215	14.564	14.513	14.576	VV	389	10516	0.11%	0.007%
216	14.594	14.576	14.610	VV	434	5866	0.06%	0.004%
217	14.639	14.610	14.674	VV	361	9775	0.11%	0.006%
218	14.702	14.674	14.711	VV	350	6620	0.07%	0.004%
219	14.787	14.711	14.902	VV	506535	6544255	70.83%	4.240%
220	14.907	14.902	14.925	VV	304	2910	0.03%	0.002%
221	14.958	14.925	14.971	VV	311	6917	0.07%	0.004%
222	14.977	14.971	14.998	VV	303	3922	0.04%	0.003%
223	15.029	14.998	15.070	VV	298	8757	0.09%	0.006%
224	15.084	15.070	15.094	VV	196	1903	0.02%	0.001%
225	15.101	15.094	15.109	VV	82	662	0.01%	0.000%
226	15.115	15.109	15.121	VV	103	546	0.01%	0.000%
227	15.203	15.121	15.241	VV	365	15380	0.17%	0.010%
228	15.267	15.241	15.277	VV	360	6199	0.07%	0.004%
229	15.303	15.277	15.333	VV	1830	28873	0.31%	0.019%
230	15.347	15.333	15.408	VV	460	10989	0.12%	0.007%
231	15.431	15.408	15.463	PV	251	4155	0.04%	0.003%
232	15.486	15.463	15.507	VV	539	7282	0.08%	0.005%
233	15.520	15.507	15.554	VV	389	7125	0.08%	0.005%
234	15.557	15.554	15.571	VV	181	1261	0.01%	0.001%
235	15.623	15.571	15.639	VV	485	11804	0.13%	0.008%
236	15.671	15.639	15.734	VV	585	19367	0.21%	0.013%
237	15.807	15.734	15.884	VV	469038	6429515	69.59%	4.166%
238	15.893	15.884	15.928	VV	258	5004	0.05%	0.003%
239	15.939	15.928	15.955	VV	170	2648	0.03%	0.002%
240	15.985	15.955	16.063	VV	460	14778	0.16%	0.010%
241	16.109	16.063	16.121	PV	293	6344	0.07%	0.004%
242	16.168	16.121	16.202	VV	383	11836	0.13%	0.008%

rteres

243	16.252	16.202	16.264	VV	310	7324	0.08%	0.005%
244	16.284	16.264	16.314	VV	2267	32337	0.35%	0.021%
245	16.331	16.314	16.390	VV	291	6733	0.07%	0.004%
246	16.402	16.390	16.410	VV	165	1134	0.01%	0.001%
247	16.420	16.410	16.431	VV	113	1218	0.01%	0.001%
248	16.457	16.431	16.481	VV	354	8643	0.09%	0.006%
249	16.492	16.481	16.499	VV	309	2653	0.03%	0.002%
250	16.504	16.499	16.541	VV	247	4010	0.04%	0.003%
251	16.635	16.541	16.684	VV	559	21335	0.23%	0.014%
252	16.756	16.684	16.824	VV	454481	6368919	68.94%	4.126%
253	16.832	16.824	16.881	VV	358	8106	0.09%	0.005%
254	16.938	16.881	16.961	VV	242	8575	0.09%	0.006%
255	16.979	16.961	17.021	VV	490	8961	0.10%	0.006%
256	17.068	17.021	17.102	PV	434	10367	0.11%	0.007%
257	17.158	17.102	17.173	VV	515	10555	0.11%	0.007%
258	17.202	17.173	17.258	VV	2758	41843	0.45%	0.027%
259	17.307	17.258	17.378	PV	436	14393	0.16%	0.009%
260	17.384	17.378	17.406	VV	201	2350	0.03%	0.002%
261	17.429	17.406	17.445	VV	167	2137	0.02%	0.001%
262	17.487	17.445	17.498	VV	302	5227	0.06%	0.003%
263	17.529	17.498	17.566	VV	4727	71348	0.77%	0.046%
264	17.641	17.566	17.725	VV	452520	6411409	69.40%	4.154%
265	17.772	17.725	17.846	VV	995	33373	0.36%	0.022%
266	17.879	17.846	17.891	VV	133	2635	0.03%	0.002%
267	17.966	17.891	17.989	PV	344	10912	0.12%	0.007%
268	18.060	17.989	18.094	VV	2473	41941	0.45%	0.027%
269	18.137	18.094	18.163	VV	876	15303	0.17%	0.010%
270	18.174	18.163	18.237	VV	185	4869	0.05%	0.003%
271	18.247	18.237	18.256	PV	155	949	0.01%	0.001%
272	18.321	18.256	18.338	PV	337	9733	0.11%	0.006%
273	18.354	18.338	18.396	VV	346	6370	0.07%	0.004%
274	18.473	18.396	18.538	PV	447500	6336289	68.58%	4.105%
275	18.559	18.538	18.590	VV	338	6883	0.07%	0.004%
276	18.612	18.590	18.624	VV	314	3927	0.04%	0.003%
277	18.636	18.624	18.678	VV	184	3333	0.04%	0.002%
278	18.771	18.678	18.781	PV	182	8036	0.09%	0.005%
279	18.789	18.781	18.814	VV	117	1904	0.02%	0.001%
280	18.865	18.814	18.905	PV	2855	51049	0.55%	0.033%
281	18.917	18.905	18.927	VV	384	4008	0.04%	0.003%
282	18.961	18.927	18.994	VV	440	13289	0.14%	0.009%
283	19.067	18.994	19.084	VV	505	20911	0.23%	0.014%
284	19.108	19.084	19.133	VV	517	11384	0.12%	0.007%
285	19.255	19.133	19.324	VV	439071	6372995	68.98%	4.129%

rteres

286	19.347	19.324	19.384	VV	1033	29080	0.31%	0.019%
287	19.407	19.384	19.435	VV	726	19158	0.21%	0.012%
288	19.541	19.435	19.561	VV	970	54991	0.60%	0.036%
289	19.624	19.561	19.664	VV	2277	71968	0.78%	0.047%
290	19.679	19.664	19.699	VV	1096	20789	0.23%	0.013%
291	19.812	19.699	19.824	VV	1613	96043	1.04%	0.062%
292	19.855	19.824	19.868	VV	1913	45926	0.50%	0.030%
293	19.893	19.868	19.922	VV	2700	74540	0.81%	0.048%
294	19.993	19.922	20.059	VV	405618	6356122	68.80%	4.118%
295	20.091	20.059	20.101	VV	3097	77069	0.83%	0.050%
296	20.276	20.101	20.310	VV	4075	455434	4.93%	0.295%
297	20.345	20.310	20.375	VV	5557	182257	1.97%	0.118%
298	20.516	20.375	20.560	VV	4663	496497	5.37%	0.322%
299	20.571	20.560	20.585	VV	4471	61973	0.67%	0.040%
300	20.591	20.585	20.606	VV	4213	52660	0.57%	0.034%
301	20.717	20.606	20.902	VV	346920	6882570	74.50%	4.459%
302	20.923	20.902	20.944	VV	3264	80647	0.87%	0.052%
303	20.953	20.944	20.974	VV	3266	57426	0.62%	0.037%
304	21.019	20.974	21.078	VV	3292	195017	2.11%	0.126%
305	21.124	21.078	21.229	VV	3832	261629	2.83%	0.170%
306	21.245	21.229	21.261	VV	2305	43633	0.47%	0.028%
307	21.299	21.261	21.311	VV	2245	66819	0.72%	0.043%
308	21.331	21.311	21.340	VV	2273	37759	0.41%	0.024%
309	21.352	21.340	21.381	VV	2145	49986	0.54%	0.032%
310	21.395	21.381	21.412	VV	2055	36933	0.40%	0.024%
311	21.421	21.412	21.443	VV	1932	34817	0.38%	0.023%
312	21.454	21.443	21.478	VV	1851	37337	0.40%	0.024%
313	21.502	21.478	21.529	VV	1676	49242	0.53%	0.032%
314	21.601	21.529	21.736	VV	264952	6291016	68.09%	4.076%

Sum of corrected areas: 154349005

Aliphatic EPH 102324.M Sat Nov 09 02:15:09 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048678.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 19:21
Operator : YP/AJ
Sample : P4718-01MS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:08:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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-307-SB01MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.370	9027188	59.476 ug/ml
Spiked Amount 50.000		Recovery = 118.95%	
6) S 2-Flurobiphenyl (SURR)	8.220	5282948	53.802 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 107.60%	
11) S ortho-Terphenyl (SURR)	11.254	5816816	34.148 ug/mlm
Spiked Amount 50.000		Recovery = 68.30%	
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.192	6498263	37.352 ug/mlm
2) T Naphthalene (C11.7)	5.710	7326787	41.062 ug/ml
3) T 2-Methylnaphthalene (...	6.757	7157942	40.019 ug/ml
5) T Acenaphthylene (C15.06)	8.023	8244470	46.953 ug/ml
7) T Acenaphthene (C15.5)	8.319	8808345	49.663 ug/ml
8) T Flouorene (C16.55)	9.097	8677332	51.334 ug/ml
9) T Phenanthrene (C19.36)	10.484	8717052	52.733 ug/ml
10) T Anthracene (C19.43)	10.559	8688054	54.331 ug/ml
12) T Fluoranthene (C21.85)	12.291	8702831	52.880 ug/mlm
13) T Pyrene (C20.8)	12.582	8665077	53.794 ug/ml
14) T Benzo[a]anthracene (C...	14.452	8120307	55.537 ug/mlm
15) T Chrysene (C27.41)	14.495	8113083	49.322 ug/ml
16) T benzo[b]fluoranthene ...	16.000	8271984	54.411 ug/ml
17) T Bnezo[k]fluoranthene ...	16.035	8054797	53.590 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.376	7909563	52.557 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.743	8260670	63.311 ug/ml
20) T Dibenz[a,h]anthracene...	17.780	7803439	47.952 ug/ml
21) T Benzo[g,h,i]perylene ...	17.995	8015248	52.356 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048678.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 19:21
Operator : YP/AJ
Sample : P4718-01MS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:08:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
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ClientSampleId :
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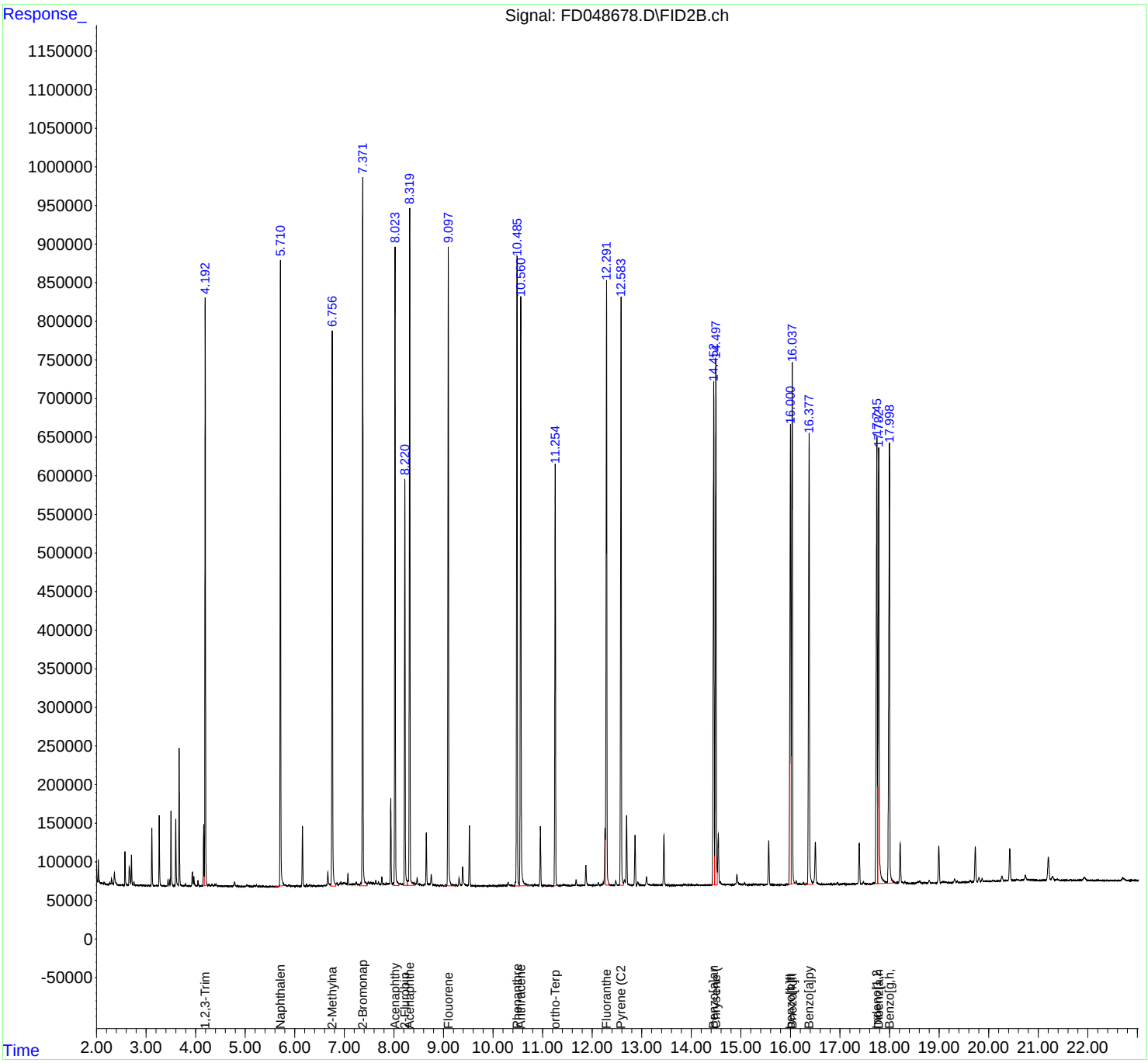

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rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11082
Data File : FD048678.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 19:21
Sample : P4718-01MS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.121	4.105	4.135	PV	191	2794	0.03%	0.001%
2	4.163	4.135	4.176	VV	79761	696858	7.81%	0.369%
3	4.193	4.176	4.251	VV	761559	6537071	73.24%	3.460%
4	4.270	4.251	4.301	VV	1752	30115	0.34%	0.016%
5	4.330	4.301	4.370	VV	2854	46572	0.52%	0.025%
6	4.384	4.370	4.398	VV	2163	22183	0.25%	0.012%
7	4.414	4.398	4.459	VV	3311	40025	0.45%	0.021%
8	4.468	4.459	4.477	VV	299	2224	0.02%	0.001%
9	4.489	4.477	4.516	VV	987	13706	0.15%	0.007%
10	4.527	4.516	4.569	VV	833	9732	0.11%	0.005%
11	4.600	4.569	4.652	PV	707	16026	0.18%	0.008%
12	4.657	4.652	4.688	VV	335	2717	0.03%	0.001%
13	4.703	4.688	4.740	VV	566	8837	0.10%	0.005%
14	4.786	4.740	4.825	VV	6020	89621	1.00%	0.047%
15	4.842	4.825	4.862	VV	1442	16525	0.19%	0.009%
16	4.902	4.870	4.922	VV	406	7849	0.09%	0.004%
17	4.929	4.922	4.939	VV	217	1520	0.02%	0.001%
18	4.953	4.939	4.966	VV	335	3069	0.03%	0.002%
19	4.974	4.966	4.989	VV	402	3525	0.04%	0.002%
20	4.992	4.989	4.998	VV	270	1145	0.01%	0.001%
21	5.032	4.998	5.062	VV	2140	35406	0.40%	0.019%
22	5.066	5.062	5.070	VV	664	3289	0.04%	0.002%
23	5.074	5.070	5.089	VV	747	6427	0.07%	0.003%
24	5.097	5.089	5.115	VV	520	5591	0.06%	0.003%
25	5.117	5.115	5.128	VV	361	2446	0.03%	0.001%
26	5.130	5.128	5.137	VV	332	1349	0.02%	0.001%
27	5.146	5.137	5.152	VV	331	2790	0.03%	0.001%
28	5.157	5.152	5.169	VV	400	2919	0.03%	0.002%
29	5.189	5.169	5.210	VV	1521	19232	0.22%	0.010%
30	5.227	5.210	5.253	VV	2219	25995	0.29%	0.014%
31	5.282	5.253	5.325	VV	695	16557	0.19%	0.009%
32	5.360	5.325	5.412	VV	614	15404	0.17%	0.008%
33	5.428	5.412	5.432	PV	204	1524	0.02%	0.001%
34	5.438	5.432	5.455	VV	225	1528	0.02%	0.001%
35	5.472	5.455	5.497	VV	446	6700	0.08%	0.004%
36	5.520	5.497	5.534	VV	442	5513	0.06%	0.003%

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37	5.537	5.534	5.546	VV	322	2098	0.02%	0.001%
38	5.562	5.546	5.578	VV	370	4538		
39	5.610	5.589	5.642	VV	195	3385		
40	5.656	5.642	5.665	VV	244	2168		
41	5.710	5.665	5.808	VV	810216	7432210	83	
42	5.822	5.808	5.854	VV	2149	39161		
43	5.889	5.854	5.917	VV	2006	47548	0.53%	0.025%
44	5.938	5.917	5.945	VV	996	12150	0.14%	0.006%
45	5.950	5.945	5.961	VV	910	7013	0.08%	0.004%
46	5.980	5.961	6.012	VV	857	17831	0.20%	0.009%
47	6.045	6.012	6.058	VV	1220	23165	0.26%	0.012%
48	6.073	6.058	6.095	VV	1012	15243	0.17%	0.008%
49	6.122	6.095	6.130	VV	1011	13179	0.15%	0.007%
50	6.156	6.130	6.190	VV	78439	793435	8.89%	0.420%
51	6.200	6.190	6.215	VV	1118	12591	0.14%	0.007%
52	6.239	6.215	6.259	VV	1954	31709	0.36%	0.017%
53	6.305	6.259	6.326	VV	2827	56508	0.63%	0.030%
54	6.336	6.326	6.358	VV	987	16146	0.18%	0.009%
55	6.376	6.358	6.390	VV	1582	22090	0.25%	0.012%
56	6.400	6.390	6.431	VV	1085	19058	0.21%	0.010%
57	6.472	6.431	6.507	VV	1283	34682	0.39%	0.018%
58	6.525	6.507	6.531	VV	1152	12318	0.14%	0.007%
59	6.543	6.531	6.570	VV	1112	20658	0.23%	0.011%
60	6.593	6.570	6.613	VV	2032	32905	0.37%	0.017%
61	6.668	6.613	6.701	VV	18753	278303	3.12%	0.147%
62	6.708	6.701	6.725	VV	2860	35326	0.40%	0.019%
63	6.757	6.725	6.827	VV	718863	7191555	80.57%	3.807%
64	6.852	6.827	6.889	VV	4657	116090	1.30%	0.061%
65	6.908	6.889	6.916	VV	3822	52099	0.58%	0.028%
66	6.931	6.916	6.955	VV	6156	101525	1.14%	0.054%
67	6.975	6.955	6.980	VV	4761	59668	0.67%	0.032%
68	7.005	6.980	7.023	VV	5193	113046	1.27%	0.060%
69	7.039	7.023	7.053	VV	3816	59753	0.67%	0.032%
70	7.073	7.053	7.095	VV	16287	190500	2.13%	0.101%
71	7.126	7.095	7.146	VV	3048	82426	0.92%	0.044%
72	7.160	7.146	7.175	VV	3406	54610	0.61%	0.029%
73	7.194	7.175	7.210	VV	3289	61240	0.69%	0.032%
74	7.242	7.210	7.268	VV	5758	130116	1.46%	0.069%
75	7.281	7.268	7.312	VV	2853	65441	0.73%	0.035%
76	7.332	7.312	7.344	VV	4623	67530	0.76%	0.036%
77	7.371	7.344	7.421	VV	917343	8925878	100.00%	4.725%
78	7.429	7.421	7.465	VV	5640	115545	1.29%	0.061%
79	7.482	7.465	7.509	VV	6111	120657	1.35%	0.064%
80	7.525	7.509	7.541	VV	5736	91300	1.02%	0.048%
81	7.550	7.541	7.567	VV	4775	62122	0.70%	0.033%
82	7.589	7.567	7.611	VV	5157	102666	1.15%	0.054%
83	7.635	7.611	7.654	VV	8170	132447	1.48%	0.070%
84	7.658	7.654	7.667	VV	3336	24879	0.28%	0.013%
85	7.669	7.667	7.672	VV	3391	10645	0.12%	0.006%
86	7.689	7.672	7.712	VV	5950	95881	1.07%	0.051%
87	7.722	7.712	7.736	VV	3077	42061	0.47%	0.022%
88	7.758	7.736	7.780	VV	12586	168129	1.88%	0.089%
89	7.795	7.780	7.823	VV	4188	80919	0.91%	0.043%

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90	7.842	7.823	7.858	VV	4674	72905	0.82%	0.039%
91	7.902	7.858	7.911	VV	3588	103759		
92	7.937	7.911	7.967	VV	114137	1199599	13	
93	7.984	7.967	7.996	VV	4566	65580		
94	8.024	7.996	8.067	VV	828156	8225520	92	
95	8.073	8.067	8.104	VV	5999	101100		
96	8.109	8.104	8.116	VV	3311	24451	0.27%	0.013%
97	8.130	8.116	8.150	VV	4036	66670	0.75%	0.035%
98	8.166	8.150	8.192	VV	3140	69347	0.78%	0.037%
99	8.221	8.192	8.271	VV	526767	5344652	59.88%	2.829%
100	8.283	8.271	8.291	VV	7803	84437	0.95%	0.045%
101	8.319	8.291	8.374	VV	875803	8753867	98.07%	4.634%
102	8.380	8.374	8.407	VV	4688	78338	0.88%	0.041%
103	8.425	8.407	8.447	VV	4370	81866	0.92%	0.043%
104	8.468	8.447	8.504	VV	10719	171917	1.93%	0.091%
105	8.523	8.504	8.562	VV	3420	82491	0.92%	0.044%
106	8.583	8.562	8.598	VV	2082	38662	0.43%	0.020%
107	8.654	8.598	8.709	VV	69524	811839	9.10%	0.430%
108	8.726	8.709	8.733	VV	3435	42292	0.47%	0.022%
109	8.753	8.733	8.791	VV	15554	226299	2.54%	0.120%
110	8.804	8.791	8.819	VV	2232	30609	0.34%	0.016%
111	8.837	8.819	8.855	VV	1815	32383	0.36%	0.017%
112	8.890	8.855	8.921	VV	1536	41582	0.47%	0.022%
113	8.940	8.921	8.955	VV	1226	19974	0.22%	0.011%
114	8.971	8.955	9.001	VV	1238	28471	0.32%	0.015%
115	9.005	9.001	9.010	VV	783	4029	0.05%	0.002%
116	9.032	9.010	9.041	VV	1118	16810	0.19%	0.009%
117	9.053	9.041	9.067	VV	960	13482	0.15%	0.007%
118	9.097	9.067	9.179	VV	826364	8681396	97.26%	4.595%
119	9.184	9.179	9.232	VV	2014	48010	0.54%	0.025%
120	9.254	9.232	9.292	VV	1851	39640	0.44%	0.021%
121	9.315	9.292	9.345	VV	11137	153008	1.71%	0.081%
122	9.354	9.345	9.367	VV	2056	22232	0.25%	0.012%
123	9.386	9.367	9.462	VV	24762	378937	4.25%	0.201%
124	9.471	9.462	9.495	VV	1431	22230	0.25%	0.012%
125	9.524	9.495	9.585	VV	78611	860681	9.64%	0.456%
126	9.625	9.585	9.642	VV	815	22977	0.26%	0.012%
127	9.646	9.642	9.651	VV	579	2690	0.03%	0.001%
128	9.655	9.651	9.683	VV	650	7722	0.09%	0.004%
129	9.695	9.683	9.707	VV	620	5730	0.06%	0.003%
130	9.710	9.707	9.716	VV	457	2101	0.02%	0.001%
131	9.743	9.716	9.758	VV	723	8888	0.10%	0.005%
132	9.787	9.758	9.794	VV	476	7550	0.08%	0.004%
133	9.801	9.794	9.818	VV	600	6443	0.07%	0.003%
134	9.839	9.818	9.862	VV	748	13076	0.15%	0.007%
135	9.870	9.862	9.883	VV	566	5211	0.06%	0.003%
136	9.895	9.883	9.900	VV	549	4294	0.05%	0.002%
137	9.915	9.900	9.932	VV	797	9827	0.11%	0.005%
138	9.946	9.932	9.972	VV	728	12536	0.14%	0.007%
139	9.983	9.972	9.997	VV	566	7276	0.08%	0.004%
140	10.006	9.997	10.014	VV	620	5070	0.06%	0.003%
141	10.026	10.014	10.070	VV	1294	19058	0.21%	0.010%

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142	10.113	10.088	10.118	PV	827	8576	0.10%	0.005%
143	10.139	10.118	10.173	VV	1006	23911		
144	10.196	10.173	10.218	VV	912	19817		
145	10.224	10.218	10.245	VV	1019	13502		
146	10.259	10.245	10.287	VV	1172	20348		
147	10.304	10.287	10.358	VV	5229	88040		
148	10.384	10.358	10.412	VV	1654	28207	0.32%	0.015%
149	10.452	10.412	10.456	VV	5713	47597	0.53%	0.025%
150	10.485	10.456	10.530	VV	816874	8683357	97.28%	4.596%
151	10.560	10.530	10.669	VV	762318	8676791	97.21%	4.593%
152	10.675	10.669	10.704	VV	2334	36780	0.41%	0.019%
153	10.710	10.704	10.734	VV	1400	21455	0.24%	0.011%
154	10.763	10.734	10.781	VV	1251	26847	0.30%	0.014%
155	10.785	10.781	10.819	VV	779	14999	0.17%	0.008%
156	10.836	10.819	10.871	VV	1604	36321	0.41%	0.019%
157	10.890	10.871	10.919	VV	1322	26830	0.30%	0.014%
158	10.956	10.919	10.991	VV	76897	851616	9.54%	0.451%
159	10.998	10.991	11.017	VV	587	7884	0.09%	0.004%
160	11.039	11.017	11.088	VV	1236	23750	0.27%	0.013%
161	11.111	11.088	11.130	VV	874	12468	0.14%	0.007%
162	11.149	11.130	11.174	VV	682	11749	0.13%	0.006%
163	11.180	11.174	11.218	VV	341	4091	0.05%	0.002%
164	11.254	11.218	11.333	PV	544276	5852749	65.57%	3.098%
165	11.345	11.333	11.362	VV	904	11844	0.13%	0.006%
166	11.383	11.362	11.389	VV	877	10625	0.12%	0.006%
167	11.425	11.389	11.446	VV	2073	41254	0.46%	0.022%
168	11.454	11.446	11.470	VV	972	11833	0.13%	0.006%
169	11.489	11.470	11.527	VV	889	22806	0.26%	0.012%
170	11.532	11.527	11.540	VV	345	2011	0.02%	0.001%
171	11.544	11.540	11.547	VV	301	1153	0.01%	0.001%
172	11.552	11.547	11.567	VV	364	2945	0.03%	0.002%
173	11.613	11.567	11.635	VV	1343	29095	0.33%	0.015%
174	11.644	11.635	11.648	VV	759	5416	0.06%	0.003%
175	11.676	11.648	11.700	VV	8149	102036	1.14%	0.054%
176	11.710	11.700	11.741	VV	1455	20306	0.23%	0.011%
177	11.758	11.741	11.765	VV	676	7701	0.09%	0.004%
178	11.773	11.765	11.789	VV	743	8749	0.10%	0.005%
179	11.837	11.789	11.850	VV	1298	30750	0.34%	0.016%
180	11.872	11.850	11.939	VV	26910	366876	4.11%	0.194%
181	11.947	11.939	11.983	VV	1064	22636	0.25%	0.012%
182	11.988	11.983	12.009	VV	844	10547	0.12%	0.006%
183	12.042	12.009	12.069	VV	818	22696	0.25%	0.012%
184	12.093	12.069	12.104	VV	1037	18637	0.21%	0.010%
185	12.124	12.104	12.152	VV	4380	59074	0.66%	0.031%
186	12.180	12.152	12.191	VV	1614	25304	0.28%	0.013%
187	12.197	12.191	12.209	VV	1455	14065	0.16%	0.007%
188	12.223	12.209	12.234	VV	4436	47501	0.53%	0.025%
189	12.258	12.234	12.265	VV	74662	725724	8.13%	0.384%
190	12.290	12.265	12.374	VV	780243	8845158	99.10%	4.682%
191	12.391	12.374	12.414	VV	1022	20656	0.23%	0.011%
192	12.423	12.414	12.429	VV	887	7186	0.08%	0.004%
193	12.435	12.429	12.454	VV	855	11168	0.13%	0.006%
194	12.475	12.454	12.547	VV	6639	116675	1.31%	0.062%

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195	12.583	12.547	12.631	VV	763654	8699647	97.47%	4.605%
196	12.650	12.631	12.669	VV	7781	125251		
197	12.695	12.669	12.728	VV	90889	1075310	12	
198	12.741	12.728	12.769	VV	1871	32463		
199	12.773	12.769	12.817	VV	905	22282		
200	12.865	12.817	12.895	VV	65456	819147		
201	12.922	12.895	12.974	VV	4833	97966	1.10%	0.052%
202	12.979	12.974	12.984	VV	857	4742	0.05%	0.003%
203	12.994	12.984	13.036	VV	1022	21236	0.24%	0.011%
204	13.059	13.036	13.066	VV	800	12537	0.14%	0.007%
205	13.096	13.066	13.171	VV	11505	208391	2.33%	0.110%
206	13.211	13.171	13.254	VV	1352	45999	0.52%	0.024%
207	13.273	13.254	13.289	VV	1010	17795	0.20%	0.009%
208	13.295	13.289	13.301	VV	891	5921	0.07%	0.003%
209	13.320	13.301	13.339	VV	1187	19425	0.22%	0.010%
210	13.351	13.339	13.371	VV	1026	16582	0.19%	0.009%
211	13.395	13.371	13.415	VV	1316	24548	0.28%	0.013%
212	13.448	13.415	13.500	VV	65174	817804	9.16%	0.433%
213	13.506	13.500	13.542	VV	709	13643	0.15%	0.007%
214	13.552	13.542	13.577	VV	384	6672	0.07%	0.004%
215	13.582	13.577	13.630	VV	354	7243	0.08%	0.004%
216	13.641	13.630	13.655	VV	292	3773	0.04%	0.002%
217	13.662	13.655	13.675	VV	420	3255	0.04%	0.002%
218	13.679	13.675	13.695	VV	373	3349	0.04%	0.002%
219	13.710	13.695	13.729	VV	500	6265	0.07%	0.003%
220	13.745	13.729	13.765	VV	411	7462	0.08%	0.004%
221	13.782	13.765	13.790	VV	539	5834	0.07%	0.003%
222	13.796	13.790	13.829	VV	470	6615	0.07%	0.004%
223	13.845	13.829	13.861	VV	909	13429	0.15%	0.007%
224	13.883	13.861	13.904	VV	1498	27232	0.31%	0.014%
225	13.924	13.904	13.950	VV	794	16402	0.18%	0.009%
226	13.973	13.950	13.989	VV	1434	18311	0.21%	0.010%
227	14.008	13.989	14.029	VV	818	14430	0.16%	0.008%
228	14.034	14.029	14.038	VV	582	2899	0.03%	0.002%
229	14.040	14.038	14.066	VV	590	6562	0.07%	0.003%
230	14.101	14.066	14.148	VV	954	29622	0.33%	0.016%
231	14.170	14.148	14.194	VV	978	18430	0.21%	0.010%
232	14.201	14.194	14.204	VV	537	2965	0.03%	0.002%
233	14.213	14.204	14.236	VV	598	7464	0.08%	0.004%
234	14.251	14.236	14.266	VV	359	4715	0.05%	0.002%
235	14.285	14.266	14.289	VV	483	4984	0.06%	0.003%
236	14.324	14.289	14.338	VV	756	16392	0.18%	0.009%
237	14.355	14.338	14.373	VV	835	12204	0.14%	0.006%
238	14.392	14.373	14.407	VV	674	10014	0.11%	0.005%
239	14.453	14.407	14.471	VV	651187	8155391	91.37%	4.317%
240	14.497	14.471	14.524	VV	680980	8131782	91.10%	4.304%
241	14.545	14.524	14.575	VV	66491	913549	10.23%	0.484%
242	14.587	14.575	14.630	VV	4036	81887	0.92%	0.043%
243	14.638	14.630	14.695	VV	1440	41691	0.47%	0.022%
244	14.702	14.695	14.707	VV	972	6376	0.07%	0.003%
245	14.719	14.707	14.737	VV	1024	16944	0.19%	0.009%
246	14.741	14.737	14.754	VV	935	8245	0.09%	0.004%

Instrument :
FID_D
ClientSampleId :
WB-307-SB01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

rteres

247	14.757	14.754	14.766	VV	825	5584	0.06%	0.003%
248	14.778	14.766	14.809	VV	855	16669		
249	14.816	14.809	14.822	VV	567	3970		
250	14.842	14.822	14.862	VV	751	14770		
251	14.885	14.862	14.899	VV	2265	32198		
252	14.920	14.899	15.008	VV	13992	274957		
253	15.015	15.008	15.040	VV	1143	16474	0.18%	0.009%
254	15.074	15.040	15.100	VV	3507	58288	0.65%	0.031%
255	15.118	15.100	15.147	VV	899	15673	0.18%	0.008%
256	15.166	15.147	15.179	VV	947	13765	0.15%	0.007%
257	15.202	15.179	15.221	VV	869	18297	0.20%	0.010%
258	15.225	15.221	15.229	VV	621	2715	0.03%	0.001%
259	15.259	15.229	15.285	VV	1182	27341	0.31%	0.014%
260	15.289	15.285	15.305	VV	831	9216	0.10%	0.005%
261	15.310	15.305	15.314	VV	819	4297	0.05%	0.002%
262	15.321	15.314	15.337	VV	867	9800	0.11%	0.005%
263	15.352	15.337	15.363	VV	824	10083	0.11%	0.005%
264	15.373	15.363	15.380	VV	769	7048	0.08%	0.004%
265	15.383	15.380	15.389	VV	755	3315	0.04%	0.002%
266	15.404	15.389	15.423	VV	883	14910	0.17%	0.008%
267	15.441	15.423	15.474	VV	796	18582	0.21%	0.010%
268	15.519	15.474	15.530	VV	956	21490	0.24%	0.011%
269	15.562	15.530	15.592	VV	57683	735834	8.24%	0.390%
270	15.600	15.592	15.662	VV	616	20463	0.23%	0.011%
271	15.709	15.662	15.717	VV	510	9802	0.11%	0.005%
272	15.723	15.717	15.737	VV	495	4696	0.05%	0.002%
273	15.747	15.737	15.759	VV	499	5685	0.06%	0.003%
274	15.782	15.759	15.795	VV	506	7885	0.09%	0.004%
275	15.799	15.795	15.803	VV	385	1508	0.02%	0.001%
276	15.810	15.803	15.830	VV	529	7359	0.08%	0.004%
277	15.834	15.830	15.853	VV	534	4505	0.05%	0.002%
278	15.872	15.865	15.882	VV	326	2155	0.02%	0.001%
279	15.905	15.882	15.910	VV	403	5020	0.06%	0.003%
280	15.932	15.910	15.962	VV	1159	25243	0.28%	0.013%
281	16.001	15.962	16.015	VV	595338	8196439	91.83%	4.339%
282	16.037	16.015	16.097	VV	676742	8251609	92.45%	4.368%
283	16.115	16.097	16.149	VV	4984	92090	1.03%	0.049%
284	16.153	16.149	16.160	VV	1451	8759	0.10%	0.005%
285	16.181	16.160	16.211	VV	1528	36687	0.41%	0.019%
286	16.216	16.211	16.223	VV	983	6956	0.08%	0.004%
287	16.260	16.223	16.305	VV	3106	73188	0.82%	0.039%
288	16.320	16.305	16.339	VV	1851	26738	0.30%	0.014%
289	16.378	16.339	16.450	VV	584743	7949382	89.06%	4.208%
290	16.503	16.450	16.533	VV	55517	870035	9.75%	0.461%
291	16.545	16.533	16.577	VV	3334	55878	0.63%	0.030%
292	16.583	16.577	16.598	VV	1223	13617	0.15%	0.007%
293	16.604	16.598	16.625	VV	969	12710	0.14%	0.007%
294	16.628	16.625	16.643	VV	801	7200	0.08%	0.004%
295	16.656	16.643	16.675	VV	882	14283	0.16%	0.008%
296	16.710	16.675	16.741	VV	1004	27339	0.31%	0.014%
297	16.754	16.741	16.758	VV	633	5662	0.06%	0.003%
298	16.767	16.758	16.774	VV	770	6490	0.07%	0.003%
299	16.810	16.774	16.840	VV	1344	38226	0.43%	0.020%

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Instrument :
FID_D
ClientSampleId :
WB-307-SB01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

A B C D E F G H I J

rteres

300	16.877	16.840	16.905	VV	1132	32373	0.36%	0.017%
301	16.912	16.905	16.923	VV	927	8655		
302	16.950	16.923	16.989	VV	2777	57538		
303	16.997	16.989	17.002	VV	594	3916		
304	17.032	17.002	17.044	VV	932	17823		
305	17.071	17.044	17.116	VV	1521	40449		
306	17.123	17.116	17.134	VV	725	6465	0.07%	0.003%
307	17.136	17.134	17.146	VV	645	4386	0.05%	0.002%
308	17.160	17.146	17.167	VV	832	8348	0.09%	0.004%
309	17.192	17.167	17.198	VV	1034	15205	0.17%	0.008%
310	17.203	17.198	17.212	VV	883	6950	0.08%	0.004%
311	17.232	17.212	17.242	VV	1037	15662	0.18%	0.008%
312	17.244	17.242	17.252	VV	1103	6304	0.07%	0.003%
313	17.282	17.252	17.320	VV	1504	42538	0.48%	0.023%
314	17.389	17.320	17.441	VV	53316	783510	8.78%	0.415%
315	17.475	17.441	17.514	VV	3687	74537	0.84%	0.039%
316	17.534	17.514	17.571	VV	1165	34084	0.38%	0.018%
317	17.581	17.571	17.594	VV	919	11442	0.13%	0.006%
318	17.605	17.594	17.618	VV	919	11108	0.12%	0.006%
319	17.628	17.618	17.636	VV	816	7933	0.09%	0.004%
320	17.682	17.636	17.700	VV	2631	60069	0.67%	0.032%
321	17.745	17.700	17.758	VV	579612	8131468	91.10%	4.304%
322	17.782	17.758	17.954	VV	566005	8157183	91.39%	4.318%
323	17.998	17.954	18.130	VV	573336	8212704	92.01%	4.347%

Sum of corrected areas: 188915173

Aromatic EPH 102324.M Sat Nov 09 03:29:03 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067676.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 19:57
Operator : YP/AJ
Sample : P4718-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB01MSD

Integration File: autoint1.e
Quant Time: Nov 09 01:38:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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...	12.931	3908382	36.193 ug/ml
Spiked Amount	50.000		Recovery =	72.39%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3996483	29.665 ug/ml
2) T	n-Decane (C10)	4.337	4877556	35.800 ug/ml
4) T	n-Dodecane (C12)	6.351	5684946	41.973 ug/ml
6) T	n-Tetradecane (C14)	8.146	9131061	69.564 ug/ml
7) T	n-Hexadecane (C16)	9.742	6630551	50.192 ug/ml
8) T	n-Octadecane (C18)	11.183	6786546	51.369 ug/ml
10) T	n-Eicosane (C20)	12.490	6862062	54.384 ug/ml
11) T	n-Heneicosane (C21)	13.101	6590913	53.405 ug/ml
13) T	n-Docosane (C22)	13.686	6576404	53.707 ug/ml
14) T	n-Tetracosane (C24)	14.787	6502715	53.648 ug/ml
15) T	n-Hexacosane (C26)	15.807	6405483	53.802 ug/ml
16) T	n-Octacosane (C28)	16.756	6351508	53.988 ug/ml
17) T	n-Tricontane (C30)	17.642	6378368	52.770 ug/ml
18) T	n-Dotriacontane (C32)	18.472	6316593	53.385 ug/ml
19) T	n-Tetratriacontane (C34)	19.255	6303514	60.190 ug/ml
20) T	n-Hexatriacontane (C36)	19.994	6151233	67.576 ug/ml
21) T	n-Octatriacontane (C38)	20.716	6171465	71.262 ug/ml
22) T	n-Tetracontane (C40)	21.601	6124568	72.045 ug/ml

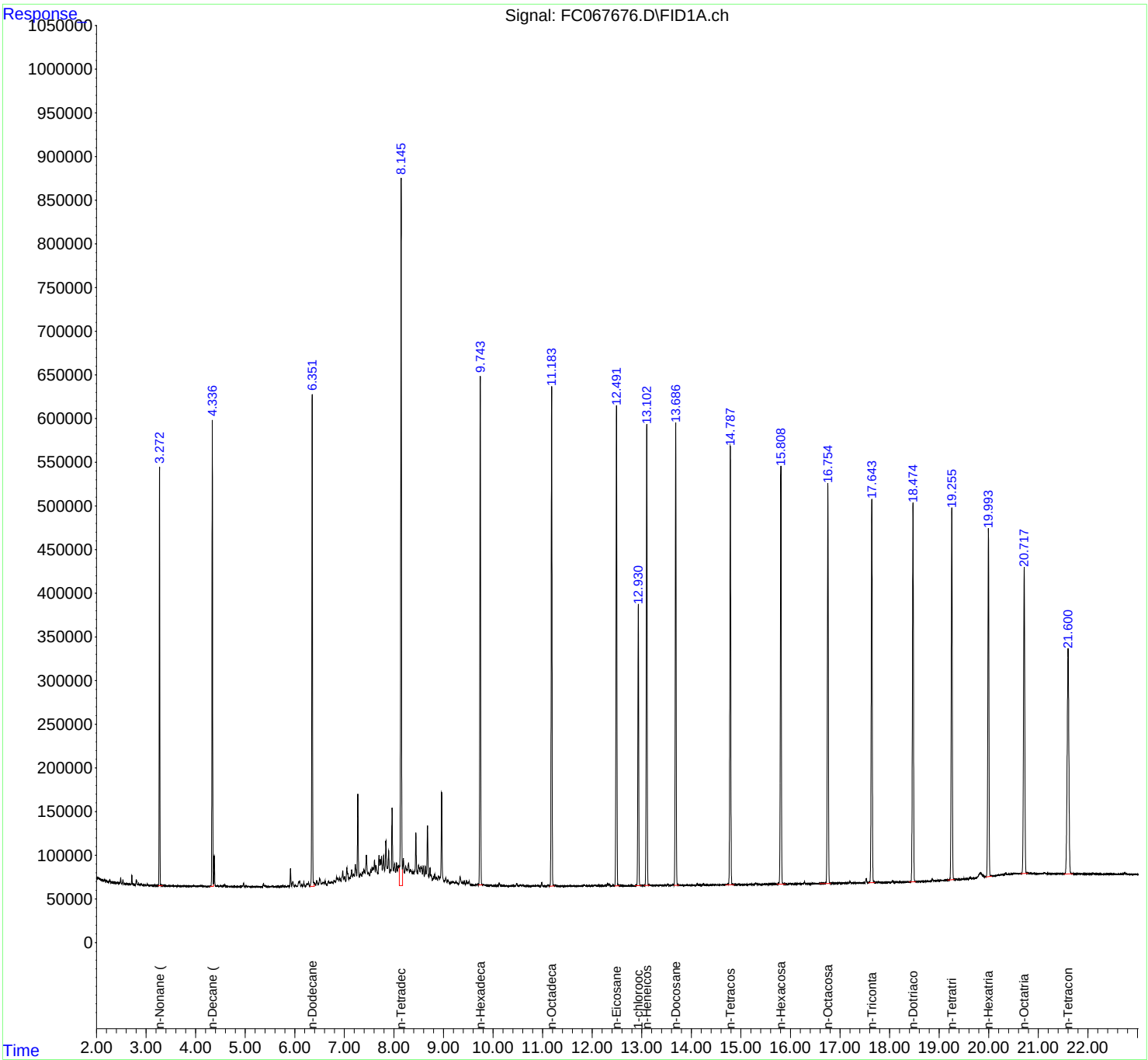
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110824AL\
Data File : FC067676.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 19:57
Operator : YP/AJ
Sample : P4718-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
WB-307-SB01MSD

Integration File: autoint1.e
Quant Time: Nov 09 01:38:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 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\FC110824AL\
Data File : FC067676.D
Signal(s) : FID1A.ch
Acq On : 08 Nov 2024 19:57
Sample : P4718-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.272	3.188	3.360	BV	475797	4002172	43.61%	2.599%
2	3.370	3.360	3.380	VV	167	1420	0.02%	0.001%
3	3.397	3.380	3.432	VV	272	4575	0.05%	0.003%
4	3.449	3.432	3.460	PV	204	2363	0.03%	0.002%
5	3.473	3.460	3.498	VV	318	3692	0.04%	0.002%
6	3.510	3.498	3.525	VV	163	1425	0.02%	0.001%
7	3.546	3.525	3.568	VV	420	7309	0.08%	0.005%
8	3.584	3.568	3.627	VV	401	6768	0.07%	0.004%
9	3.643	3.627	3.747	VV	466	6913	0.08%	0.004%
10	3.763	3.747	3.801	PV	243	3746	0.04%	0.002%
11	3.847	3.801	3.904	PV	256	5271	0.06%	0.003%
12	3.936	3.904	3.950	VV	801	8749	0.10%	0.006%
13	3.965	3.950	3.984	VV	1344	12445	0.14%	0.008%
14	3.996	3.984	4.011	PV	149	1941	0.02%	0.001%
15	4.030	4.011	4.052	VV	562	5660	0.06%	0.004%
16	4.061	4.052	4.070	PV	103	554	0.01%	0.000%
17	4.112	4.070	4.130	VV	954	14941	0.16%	0.010%
18	4.141	4.130	4.184	VV	349	5978	0.07%	0.004%
19	4.194	4.184	4.215	VV	116	1791	0.02%	0.001%
20	4.251	4.215	4.296	VV	199	4139	0.05%	0.003%
21	4.337	4.296	4.360	VV	534458	4886956	53.26%	3.173%
22	4.376	4.360	4.421	VV	35247	340717	3.71%	0.221%
23	4.435	4.421	4.471	VV	1241	19815	0.22%	0.013%
24	4.503	4.471	4.522	VV	1423	20430	0.22%	0.013%
25	4.558	4.522	4.572	VV	1177	17873	0.19%	0.012%

rteres

26	4.588	4.572	4.606	VV	2163	21572	0.24%	0.014%
27	4.616	4.606	4.638	VV	479	6692	0.07%	0.004%
28	4.645	4.638	4.693	VV	258	7944	0.09%	0.005%
29	4.707	4.693	4.731	VV	425	6263	0.07%	0.004%
30	4.746	4.731	4.763	VV	260	3524	0.04%	0.002%
31	4.805	4.763	4.838	VV	334	6903	0.08%	0.004%
32	4.856	4.838	4.870	PV	101	1443	0.02%	0.001%
33	4.890	4.870	4.911	VV	354	4458	0.05%	0.003%
34	4.967	4.911	4.997	VV	4241	58111	0.63%	0.038%
35	5.022	4.997	5.045	VV	1059	15086	0.16%	0.010%
36	5.052	5.045	5.060	VV	276	2360	0.03%	0.002%
37	5.075	5.060	5.114	VV	518	7306	0.08%	0.005%
38	5.161	5.114	5.186	PV	277	7534	0.08%	0.005%
39	5.193	5.186	5.217	VV	242	3686	0.04%	0.002%
40	5.228	5.217	5.242	VV	240	2574	0.03%	0.002%
41	5.258	5.242	5.272	VV	259	3196	0.03%	0.002%
42	5.282	5.272	5.292	VV	148	1372	0.01%	0.001%
43	5.301	5.292	5.325	VV	129	2043	0.02%	0.001%
44	5.369	5.325	5.399	VV	3858	51072	0.56%	0.033%
45	5.410	5.399	5.435	VV	1426	15574	0.17%	0.010%
46	5.440	5.435	5.455	VV	134	1809	0.02%	0.001%
47	5.466	5.455	5.482	VV	394	4114	0.04%	0.003%
48	5.550	5.482	5.589	VV	1508	23129	0.25%	0.015%
49	5.625	5.589	5.639	PV	314	5499	0.06%	0.004%
50	5.665	5.639	5.699	VV	519	9516	0.10%	0.006%
51	5.758	5.699	5.789	VV	946	17022	0.19%	0.011%
52	5.810	5.789	5.841	VV	835	12032	0.13%	0.008%
53	5.859	5.841	5.887	VV	847	11802	0.13%	0.008%
54	5.914	5.887	5.938	VV	20927	214327	2.34%	0.139%
55	5.962	5.938	5.993	VV	5885	103081	1.12%	0.067%
56	6.009	5.993	6.051	VV	1935	31976	0.35%	0.021%
57	6.100	6.051	6.123	VV	6989	157325	1.71%	0.102%
58	6.141	6.123	6.160	VV	2569	34494	0.38%	0.022%
59	6.183	6.160	6.211	VV	4501	60840	0.66%	0.040%
60	6.246	6.211	6.262	VV	3577	65153	0.71%	0.042%
61	6.278	6.262	6.300	VV	4703	62916	0.69%	0.041%
62	6.351	6.300	6.396	VV	563255	5715062	62.28%	3.711%
63	6.406	6.396	6.422	VV	4394	51254	0.56%	0.033%
64	6.445	6.422	6.467	VV	5829	112867	1.23%	0.073%
65	6.502	6.467	6.536	VV	9308	227109	2.47%	0.147%
66	6.549	6.536	6.556	VV	4008	46792	0.51%	0.030%
67	6.574	6.556	6.594	VV	5122	101574	1.11%	0.066%
68	6.612	6.594	6.644	VV	6970	128863	1.40%	0.084%
69	6.679	6.644	6.696	VV	6167	128262	1.40%	0.083%

rteres

70	6.708	6.696	6.721	VV	4957	67763	0.74%	0.044%
71	6.750	6.721	6.773	VV	5089	144210	1.57%	0.094%
72	6.793	6.773	6.825	VV	7698	190707	2.08%	0.124%
73	6.844	6.825	6.858	VV	11354	172879	1.88%	0.112%
74	6.872	6.858	6.890	VV	10094	165788	1.81%	0.108%
75	6.909	6.890	6.934	VV	9541	214976	2.34%	0.140%
76	6.968	6.934	6.990	VV	17960	379579	4.14%	0.246%
77	7.007	6.990	7.027	VV	11853	212072	2.31%	0.138%
78	7.051	7.027	7.089	VV	21626	497616	5.42%	0.323%
79	7.102	7.089	7.115	VV	10659	152876	1.67%	0.099%
80	7.150	7.115	7.167	VV	19493	435525	4.75%	0.283%
81	7.186	7.167	7.203	VV	13961	285642	3.11%	0.185%
82	7.223	7.203	7.249	VV	25259	502859	5.48%	0.326%
83	7.273	7.249	7.302	VV	105728	1349791	14.71%	0.876%
84	7.324	7.302	7.348	VV	14022	362086	3.95%	0.235%
85	7.365	7.348	7.373	VV	16158	226165	2.46%	0.147%
86	7.393	7.373	7.417	VV	18761	444244	4.84%	0.288%
87	7.445	7.417	7.475	VV	36030	795782	8.67%	0.517%
88	7.489	7.475	7.511	VV	15670	320024	3.49%	0.208%
89	7.533	7.511	7.544	VV	18618	319150	3.48%	0.207%
90	7.561	7.544	7.571	VV	20790	308520	3.36%	0.200%
91	7.609	7.571	7.625	VV	30514	730926	7.97%	0.475%
92	7.639	7.625	7.676	VV	24338	598937	6.53%	0.389%
93	7.699	7.676	7.714	VV	35841	582479	6.35%	0.378%
94	7.727	7.714	7.738	VV	30924	400335	4.36%	0.260%
95	7.750	7.738	7.767	VV	34332	477842	5.21%	0.310%
96	7.792	7.767	7.813	VV	35267	701933	7.65%	0.456%
97	7.838	7.813	7.866	VV	52045	1020485	11.12%	0.663%
98	7.894	7.866	7.918	VV	41201	821568	8.95%	0.533%
99	7.963	7.918	7.989	VV	90620	1526630	16.64%	0.991%
100	8.012	7.989	8.034	VV	26618	576950	6.29%	0.375%
101	8.052	8.034	8.071	VV	27256	480234	5.23%	0.312%
102	8.097	8.071	8.110	VV	22973	499756	5.45%	0.324%
103	8.146	8.110	8.173	VV	798252	9176332	100.00%	5.958%
104	8.191	8.173	8.218	VV	32475	622222	6.78%	0.404%
105	8.237	8.218	8.270	VV	23497	624669	6.81%	0.406%
106	8.295	8.270	8.315	VV	26752	586438	6.39%	0.381%
107	8.332	8.315	8.371	VV	19657	599310	6.53%	0.389%
108	8.386	8.371	8.401	VV	17015	287107	3.13%	0.186%
109	8.443	8.401	8.479	VV	61503	1209596	13.18%	0.785%
110	8.498	8.479	8.526	VV	24472	574060	6.26%	0.373%
111	8.545	8.526	8.574	VV	22773	575334	6.27%	0.374%
112	8.591	8.574	8.613	VV	23656	417257	4.55%	0.271%

rteres

113	8.631	8.613	8.648	VV	23264	366318	3.99%	0.238%
114	8.677	8.648	8.705	VV	69894	1096183	11.95%	0.712%
115	8.728	8.705	8.777	VV	21545	579086	6.31%	0.376%
116	8.824	8.777	8.842	VV	13872	399012	4.35%	0.259%
117	8.859	8.842	8.878	VV	10560	196410	2.14%	0.128%
118	8.899	8.878	8.925	VV	12254	285750	3.11%	0.186%
119	8.963	8.925	9.021	VV	107380	1573198	17.14%	1.021%
120	9.046	9.021	9.069	VV	9885	213675	2.33%	0.139%
121	9.090	9.069	9.132	VV	6527	208579	2.27%	0.135%
122	9.163	9.132	9.174	VV	4967	113916	1.24%	0.074%
123	9.196	9.174	9.230	VV	5498	157444	1.72%	0.102%
124	9.246	9.230	9.304	VV	4803	178448	1.94%	0.116%
125	9.336	9.304	9.367	VV	10693	242440	2.64%	0.157%
126	9.380	9.367	9.394	VV	4990	69721	0.76%	0.045%
127	9.418	9.394	9.443	VV	6279	134564	1.47%	0.087%
128	9.466	9.443	9.485	VV	6339	109360	1.19%	0.071%
129	9.519	9.485	9.561	VV	6090	156095	1.70%	0.101%
130	9.574	9.561	9.628	VV	1921	63175	0.69%	0.041%
131	9.657	9.628	9.674	VV	2108	46004	0.50%	0.030%
132	9.695	9.674	9.707	VV	2687	44694	0.49%	0.029%
133	9.742	9.707	9.793	VV	585850	6720263	73.23%	4.363%
134	9.805	9.793	9.901	VV	1931	92718	1.01%	0.060%
135	9.909	9.901	9.931	VV	1060	16592	0.18%	0.011%
136	9.964	9.931	9.997	VV	1202	34587	0.38%	0.022%
137	10.016	9.997	10.036	VV	863	16048	0.17%	0.010%
138	10.058	10.036	10.067	VV	791	12651	0.14%	0.008%
139	10.085	10.067	10.098	VV	1061	16388	0.18%	0.011%
140	10.126	10.098	10.154	VV	3219	59400	0.65%	0.039%
141	10.172	10.154	10.192	VV	1087	19308	0.21%	0.013%
142	10.216	10.192	10.239	VV	1146	21318	0.23%	0.014%
143	10.270	10.239	10.298	VV	905	19771	0.22%	0.013%
144	10.340	10.298	10.352	VV	585	12262	0.13%	0.008%
145	10.370	10.352	10.395	VV	660	13246	0.14%	0.009%
146	10.410	10.395	10.440	VV	835	17045	0.19%	0.011%
147	10.477	10.440	10.515	VV	3693	59312	0.65%	0.039%
148	10.549	10.515	10.577	VV	1539	35781	0.39%	0.023%
149	10.604	10.577	10.635	VV	1364	28063	0.31%	0.018%
150	10.645	10.635	10.653	VV	355	3353	0.04%	0.002%
151	10.669	10.653	10.681	VV	415	5651	0.06%	0.004%
152	10.695	10.681	10.717	VV	384	6988	0.08%	0.005%
153	10.727	10.717	10.744	VV	302	4179	0.05%	0.003%
154	10.759	10.744	10.773	VV	303	4188	0.05%	0.003%
155	10.801	10.773	10.828	VV	774	14899	0.16%	0.010%

rteres

156	10.848	10.828	10.880	VV	982	17707	0.19%	0.011%
157	10.899	10.880	10.918	VV	746	12389	0.14%	0.008%
158	10.933	10.918	10.958	VV	472	6740	0.07%	0.004%
159	10.983	10.958	11.021	VV	4388	53452	0.58%	0.035%
160	11.041	11.021	11.072	VV	236	4678	0.05%	0.003%
161	11.110	11.072	11.141	VV	1604	22623	0.25%	0.015%
162	11.183	11.141	11.249	VV	569419	6807427	74.18%	4.420%
163	11.272	11.249	11.318	VV	931	20945	0.23%	0.014%
164	11.333	11.318	11.358	VV	303	3643	0.04%	0.002%
165	11.380	11.358	11.388	PV	175	1874	0.02%	0.001%
166	11.411	11.388	11.443	VV	188	3392	0.04%	0.002%
167	11.472	11.443	11.480	VV	310	4174	0.05%	0.003%
168	11.492	11.480	11.514	VV	309	5034	0.05%	0.003%
169	11.569	11.514	11.605	VV	688	17389	0.19%	0.011%
170	11.635	11.605	11.685	VV	474	14803	0.16%	0.010%
171	11.698	11.685	11.718	VV	197	3293	0.04%	0.002%
172	11.726	11.718	11.735	VV	220	1953	0.02%	0.001%
173	11.746	11.735	11.763	VV	296	4044	0.04%	0.003%
174	11.779	11.763	11.801	VV	422	7727	0.08%	0.005%
175	11.846	11.801	11.869	VV	1342	29727	0.32%	0.019%
176	11.894	11.869	11.917	VV	415	8698	0.09%	0.006%
177	11.939	11.917	11.955	VV	387	5978	0.07%	0.004%
178	11.988	11.955	12.022	VV	407	11681	0.13%	0.008%
179	12.064	12.022	12.102	VV	971	24819	0.27%	0.016%
180	12.130	12.102	12.153	VV	689	14490	0.16%	0.009%
181	12.177	12.153	12.226	VV	522	16091	0.18%	0.010%
182	12.262	12.226	12.275	VV	522	10196	0.11%	0.007%
183	12.311	12.275	12.329	VV	2523	42181	0.46%	0.027%
184	12.347	12.329	12.392	VV	1985	30940	0.34%	0.020%
185	12.425	12.392	12.451	VV	1331	18873	0.21%	0.012%
186	12.490	12.451	12.574	VV	552425	6879344	74.97%	4.467%
187	12.587	12.574	12.618	VV	396	8147	0.09%	0.005%
188	12.630	12.618	12.692	VV	290	5490	0.06%	0.004%
189	12.701	12.692	12.720	VV	107	849	0.01%	0.001%
190	12.745	12.720	12.756	PV	343	4437	0.05%	0.003%
191	12.773	12.756	12.795	VV	289	4578	0.05%	0.003%
192	12.807	12.795	12.831	VV	232	3031	0.03%	0.002%
193	12.850	12.831	12.860	VV	220	2649	0.03%	0.002%
194	12.931	12.860	12.978	VV	322828	3927201	42.80%	2.550%
195	12.984	12.978	13.020	VV	674	11804	0.13%	0.008%
196	13.035	13.020	13.059	VV	492	8227	0.09%	0.005%
197	13.101	13.059	13.189	VV	529666	6627385	72.22%	4.303%
198	13.218	13.189	13.248	VV	367	10339	0.11%	0.007%
199	13.257	13.248	13.277	VV	291	3400	0.04%	0.002%

rteres

200	13.305	13.277	13.340	VV	434	11859	0.13%	0.008%
201	13.364	13.340	13.418	VV	490	16640	0.18%	0.011%
202	13.440	13.418	13.455	VV	302	4854	0.05%	0.003%
203	13.474	13.455	13.498	VV	524	8733	0.10%	0.006%
204	13.526	13.498	13.595	VV	1443	29066	0.32%	0.019%
205	13.629	13.595	13.647	VV	1326	20693	0.23%	0.013%
206	13.686	13.647	13.793	VV	526705	6600336	71.93%	4.285%
207	13.808	13.793	13.854	VV	316	5553	0.06%	0.004%
208	13.907	13.854	13.938	PV	383	10004	0.11%	0.006%
209	13.981	13.938	14.035	VV	241	9696	0.11%	0.006%
210	14.118	14.035	14.162	VV	1281	26922	0.29%	0.017%
211	14.182	14.162	14.211	VV	320	7150	0.08%	0.005%
212	14.244	14.211	14.275	VV	1568	22373	0.24%	0.015%
213	14.300	14.275	14.321	PV	382	6354	0.07%	0.004%
214	14.334	14.321	14.341	VV	321	3445	0.04%	0.002%
215	14.350	14.341	14.368	VV	314	4176	0.05%	0.003%
216	14.376	14.368	14.421	VV	349	7435	0.08%	0.005%
217	14.445	14.421	14.461	VV	461	6329	0.07%	0.004%
218	14.493	14.461	14.511	VV	421	9494	0.10%	0.006%
219	14.533	14.511	14.544	VV	346	6041	0.07%	0.004%
220	14.558	14.544	14.611	VV	417	11917	0.13%	0.008%
221	14.639	14.611	14.668	VV	400	10418	0.11%	0.007%
222	14.692	14.668	14.711	VV	429	7892	0.09%	0.005%
223	14.739	14.711	14.748	VV	1403	18622	0.20%	0.012%
224	14.787	14.748	14.888	VV	500335	6512654	70.97%	4.229%
225	14.903	14.888	14.938	VV	306	6910	0.08%	0.004%
226	14.981	14.938	15.027	VV	364	14727	0.16%	0.010%
227	15.037	15.027	15.066	VV	293	3968	0.04%	0.003%
228	15.081	15.066	15.107	PV	171	2983	0.03%	0.002%
229	15.120	15.107	15.153	VV	222	4097	0.04%	0.003%
230	15.182	15.153	15.190	VV	242	4136	0.05%	0.003%
231	15.212	15.190	15.238	VV	403	7557	0.08%	0.005%
232	15.301	15.238	15.328	VV	1713	32884	0.36%	0.021%
233	15.351	15.328	15.443	VV	509	16905	0.18%	0.011%
234	15.449	15.443	15.458	VV	192	1441	0.02%	0.001%
235	15.487	15.458	15.528	VV	392	12051	0.13%	0.008%
236	15.534	15.528	15.548	VV	361	2698	0.03%	0.002%
237	15.554	15.548	15.574	VV	219	2642	0.03%	0.002%
238	15.617	15.574	15.651	VV	524	16767	0.18%	0.011%
239	15.674	15.651	15.725	VV	494	15607	0.17%	0.010%
240	15.735	15.725	15.741	VV	219	1910	0.02%	0.001%
241	15.807	15.741	15.911	VV	480091	6425036	70.02%	4.172%
242	15.981	15.911	16.038	VV	548	20561	0.22%	0.013%

rteres

243	16.047	16.038	16.065	VV	202	2225	0.02%	0.001%
244	16.122	16.065	16.140	VV	333	11713	0.13%	0.008%
245	16.163	16.140	16.178	VV	439	7108	0.08%	0.005%
246	16.184	16.178	16.215	VV	254	4227	0.05%	0.003%
247	16.285	16.215	16.371	VV	2311	46726	0.51%	0.030%
248	16.381	16.371	16.415	VV	122	1808	0.02%	0.001%
249	16.449	16.415	16.470	PV	390	9130	0.10%	0.006%
250	16.484	16.470	16.505	VV	346	5935	0.06%	0.004%
251	16.515	16.505	16.531	VV	236	3307	0.04%	0.002%
252	16.542	16.531	16.562	VV	334	3940	0.04%	0.003%
253	16.631	16.562	16.666	VV	644	20937	0.23%	0.014%
254	16.675	16.666	16.685	VV	285	2862	0.03%	0.002%
255	16.756	16.685	16.891	VV	457073	6369199	69.41%	4.135%
256	16.908	16.891	16.928	VV	332	4694	0.05%	0.003%
257	16.949	16.928	16.961	VV	309	3823	0.04%	0.002%
258	16.985	16.961	17.025	VV	543	8632	0.09%	0.006%
259	17.069	17.025	17.115	PV	388	10670	0.12%	0.007%
260	17.160	17.115	17.181	VV	396	10038	0.11%	0.007%
261	17.201	17.181	17.261	VV	2444	34563	0.38%	0.022%
262	17.314	17.261	17.338	VV	365	7430	0.08%	0.005%
263	17.349	17.338	17.381	VV	264	3981	0.04%	0.003%
264	17.483	17.381	17.500	VV	268	8853	0.10%	0.006%
265	17.528	17.500	17.568	VV	5028	72606	0.79%	0.047%
266	17.642	17.568	17.738	VV	434298	6409018	69.84%	4.161%
267	17.771	17.738	17.831	VV	1124	30008	0.33%	0.019%
268	17.844	17.831	17.856	VV	166	1395	0.02%	0.001%
269	17.877	17.856	17.891	VV	130	1462	0.02%	0.001%
270	17.919	17.891	17.955	PV	257	6500	0.07%	0.004%
271	17.970	17.955	18.005	VV	257	4829	0.05%	0.003%
272	18.058	18.005	18.094	VV	2297	35635	0.39%	0.023%
273	18.136	18.094	18.181	VV	926	16577	0.18%	0.011%
274	18.203	18.181	18.245	VV	200	3621	0.04%	0.002%
275	18.328	18.245	18.347	PV	258	8343	0.09%	0.005%
276	18.361	18.347	18.390	VV	333	4065	0.04%	0.003%
277	18.403	18.390	18.410	VV	70	558	0.01%	0.000%
278	18.472	18.410	18.528	VV	433383	6326387	68.94%	4.108%
279	18.559	18.528	18.578	VV	420	7938	0.09%	0.005%
280	18.607	18.578	18.658	PV	289	7307	0.08%	0.005%
281	18.732	18.658	18.745	PV	214	3735	0.04%	0.002%
282	18.772	18.745	18.785	VV	126	1819	0.02%	0.001%
283	18.866	18.785	18.927	PV	2423	45785	0.50%	0.030%
284	18.967	18.927	18.978	VV	405	8131	0.09%	0.005%
285	19.034	18.978	19.045	VV	437	13191	0.14%	0.009%

rteres

286	19.058	19.045	19.079	VV	481	8160	0.09%	0.005%
287	19.088	19.079	19.097	VV	386	3541	0.04%	0.002%
288	19.155	19.097	19.169	VV	544	17045	0.19%	0.011%
289	19.255	19.169	19.325	VV	426615	6359771	69.31%	4.129%
290	19.342	19.325	19.382	VV	977	27416	0.30%	0.018%
291	19.409	19.382	19.431	VV	736	17007	0.19%	0.011%
292	19.625	19.431	19.653	VV	2008	112788	1.23%	0.073%
293	19.834	19.653	19.939	VV	6830	511327	5.57%	0.332%
294	19.994	19.939	20.067	VV	397235	6336233	69.05%	4.114%
295	20.342	20.067	20.382	VV	5375	678532	7.39%	0.441%
296	20.408	20.382	20.418	VV	4106	86788	0.95%	0.056%
297	20.521	20.418	20.599	VV	4554	469054	5.11%	0.305%
298	20.631	20.599	20.641	VV	4119	101322	1.10%	0.066%
299	20.716	20.641	20.856	VV	356650	6684915	72.85%	4.340%
300	20.863	20.856	20.931	VV	3683	153004	1.67%	0.099%
301	20.987	20.931	21.009	VV	3083	142626	1.55%	0.093%
302	21.035	21.009	21.061	VV	3120	93672	1.02%	0.061%
303	21.124	21.061	21.205	VV	3526	243695	2.66%	0.158%
304	21.219	21.205	21.238	VV	2324	44980	0.49%	0.029%
305	21.245	21.238	21.269	VV	2191	39580	0.43%	0.026%
306	21.278	21.269	21.293	VV	2185	29910	0.33%	0.019%
307	21.337	21.293	21.390	VV	2104	115833	1.26%	0.075%
308	21.406	21.390	21.415	VV	1959	28240	0.31%	0.018%
309	21.422	21.415	21.439	VV	1915	26088	0.28%	0.017%
310	21.451	21.439	21.486	VV	1773	45571	0.50%	0.030%
311	21.499	21.486	21.513	VV	1523	23495	0.26%	0.015%
312	21.601	21.513	21.725	VV	258719	6279412	68.43%	4.077%

Sum of corrected areas: 154016003

Aliphatic EPH 102324.M Sat Nov 09 02:15:41 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048679.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 19:57
Operator : YP/AJ
Sample : P4718-01MSD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:08:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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-307-SB01MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.371	9006133	59.337 ug/ml
Spiked Amount 50.000		Recovery = 118.67%	
6) S 2-Flurobiphenyl (SURR)	8.220	5315948	54.138 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 108.28%	
11) S ortho-Terphenyl (SURR)	11.255	5919615	34.752 ug/ml
Spiked Amount 50.000		Recovery = 69.50%	
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.193	6568190	37.754 ug/mlm
2) T Naphthalene (C11.7)	5.710	7452378	41.765 ug/ml
3) T 2-Methylnaphthalene (...	6.757	7223256	40.384 ug/ml
5) T Acenaphthylene (C15.06)	8.023	8313389	47.345 ug/ml
7) T Acenaphthene (C15.5)	8.319	8854960	49.926 ug/ml
8) T Flouorene (C16.55)	9.097	8796279	52.038 ug/ml
9) T Phenanthrene (C19.36)	10.485	8856092	53.574 ug/ml
10) T Anthracene (C19.43)	10.561	8830937	55.224 ug/ml
12) T Fluoranthene (C21.85)	12.290	8895805	54.053 ug/mlm
13) T Pyrene (C20.8)	12.583	8808424	54.684 ug/ml
14) T Benzo[a]anthracene (C...	14.452	8291503	56.707 ug/ml
15) T Chrysene (C27.41)	14.495	8219557	49.969 ug/ml
16) T benzo[b]fluoranthene ...	16.001	8357062	54.970 ug/ml
17) T Bnezo[k]fluoranthene ...	16.035	8275011	55.055 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.377	8013954	53.250 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.745	8329641	63.839 ug/ml
20) T Dibenz[a,h]anthracene...	17.782	8119436	49.894 ug/ml
21) T Benzo[g,h,i]perylene ...	17.997	8177839	53.418 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD110824AR\
Data File : FD048679.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 19:57
Operator : YP/AJ
Sample : P4718-01MSD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E
Quant Time: Nov 09 01:08:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 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 :
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ClientSampleId :
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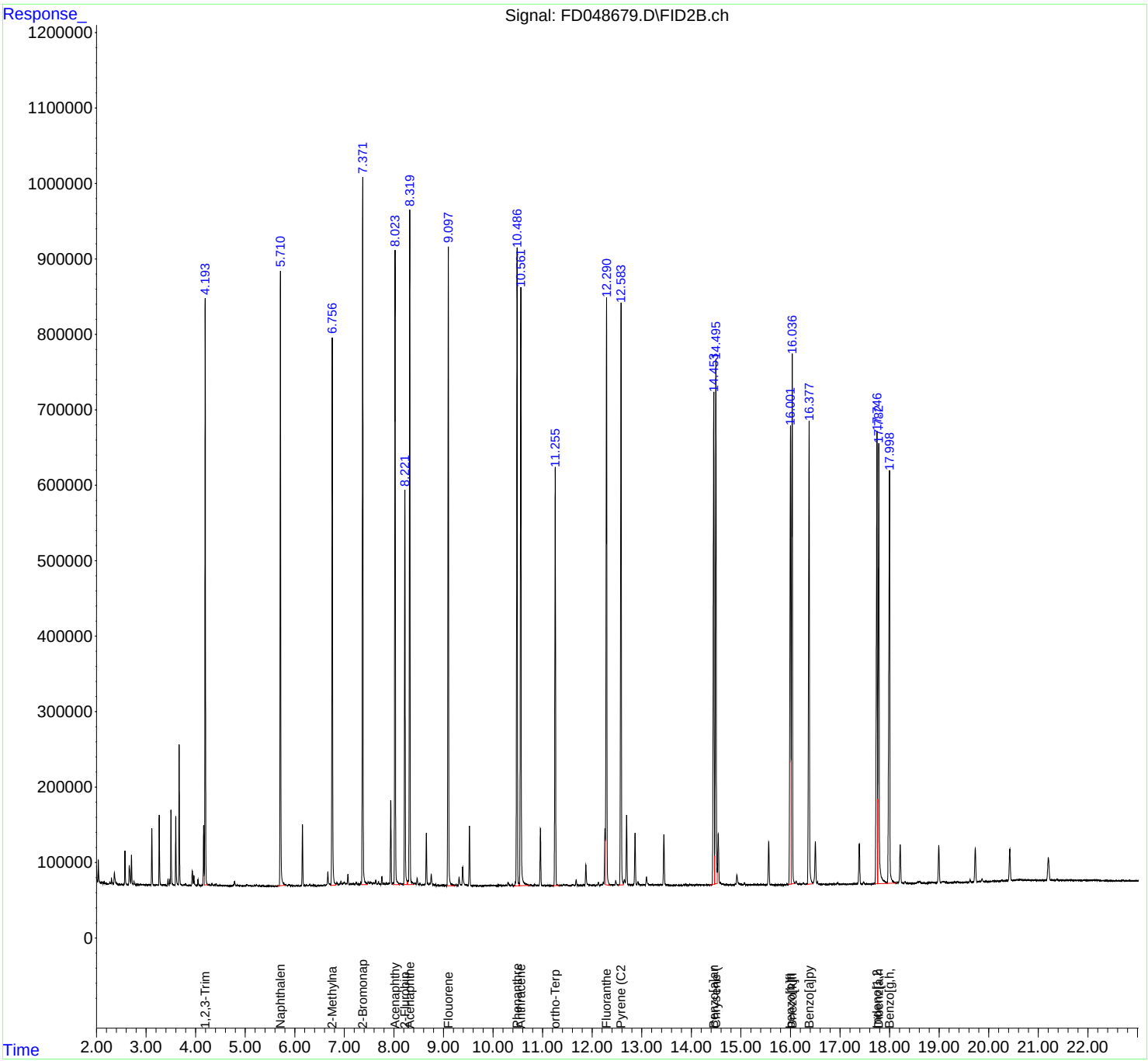

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Area Percent Report

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/11/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11082
Data File : FD048679.D
Signal(s) : FID2B.ch
Acq On : 08 Nov 2024 19:57
Sample : P4718-01MSD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.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	4.116	4.105	4.122	PV	425	2977	0.03%	0.002%
2	4.124	4.122	4.140	VV	445	3594	0.04%	0.002%
3	4.163	4.140	4.176	VV	79937	708844	7.83%	0.366%
4	4.193	4.176	4.256	VV	777656	6634343	73.32%	3.421%
5	4.270	4.256	4.303	VV	1822	30914	0.34%	0.016%
6	4.330	4.303	4.352	VV	3017	41728	0.46%	0.022%
7	4.359	4.352	4.367	VV	776	6666	0.07%	0.003%
8	4.384	4.367	4.398	VV	2122	23573	0.26%	0.012%
9	4.414	4.398	4.455	VV	3282	41612	0.46%	0.021%
10	4.467	4.455	4.474	VV	482	3986	0.04%	0.002%
11	4.489	4.474	4.514	VV	979	14605	0.16%	0.008%
12	4.524	4.514	4.545	VV	584	6695	0.07%	0.003%
13	4.550	4.545	4.571	VV	343	3766	0.04%	0.002%
14	4.599	4.571	4.633	VV	745	14467	0.16%	0.007%
15	4.639	4.633	4.665	VV	387	4225	0.05%	0.002%
16	4.705	4.665	4.720	PV	521	8130	0.09%	0.004%
17	4.726	4.720	4.730	VV	283	1287	0.01%	0.001%
18	4.736	4.730	4.742	VV	345	1886	0.02%	0.001%
19	4.785	4.742	4.819	VV	6130	92976	1.03%	0.048%
20	4.842	4.819	4.895	VV	1507	27303	0.30%	0.014%
21	4.901	4.895	4.925	VV	376	4620	0.05%	0.002%
22	4.950	4.925	4.962	VV	319	4749	0.05%	0.002%
23	4.982	4.962	4.997	VV	546	7298	0.08%	0.004%
24	5.004	4.997	5.010	VV	195	1382	0.02%	0.001%
25	5.030	5.010	5.102	VV	2137	48642	0.54%	0.025%
26	5.110	5.102	5.119	VV	516	3528	0.04%	0.002%
27	5.121	5.119	5.136	VV	423	2808	0.03%	0.001%
28	5.139	5.136	5.145	VV	330	1329	0.01%	0.001%
29	5.160	5.145	5.169	VV	383	4319	0.05%	0.002%
30	5.188	5.169	5.209	VV	1349	18111	0.20%	0.009%
31	5.226	5.209	5.257	VV	2203	26123	0.29%	0.013%
32	5.281	5.257	5.309	VV	788	12684	0.14%	0.007%
33	5.319	5.309	5.332	VV	301	3266	0.04%	0.002%
34	5.350	5.332	5.379	VV	680	11298	0.12%	0.006%
35	5.382	5.379	5.399	VV	333	2485	0.03%	0.001%
36	5.409	5.399	5.422	VV	236	1737	0.02%	0.001%

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37	5.433	5.422	5.445	VV	398	3404	0.04%	0.002%
38	5.455	5.445	5.460	VV	316	2120		
39	5.470	5.460	5.501	VV	571	8534		
40	5.508	5.501	5.530	VV	469	6239		
41	5.543	5.530	5.574	VV	456	8566		
42	5.579	5.574	5.590	VV	366	1726		
43	5.605	5.590	5.614	PV	411	3885	0.04%	0.002%
44	5.628	5.614	5.645	VV	274	3969	0.04%	0.002%
45	5.654	5.645	5.668	VV	364	4158	0.05%	0.002%
46	5.710	5.668	5.808	VV	814364	7544129	83.37%	3.891%
47	5.821	5.808	5.843	VV	2340	35785	0.40%	0.018%
48	5.846	5.843	5.855	VV	1029	6761	0.07%	0.003%
49	5.893	5.855	5.916	VV	2161	52584	0.58%	0.027%
50	5.934	5.916	5.944	VV	1158	14164	0.16%	0.007%
51	5.949	5.944	5.969	VV	1058	11978	0.13%	0.006%
52	5.981	5.969	6.015	VV	1071	16199	0.18%	0.008%
53	6.035	6.015	6.057	VV	1295	22389	0.25%	0.012%
54	6.074	6.057	6.100	VV	1028	16852	0.19%	0.009%
55	6.125	6.100	6.132	VV	970	13739	0.15%	0.007%
56	6.156	6.132	6.187	VV	82051	803179	8.88%	0.414%
57	6.197	6.187	6.218	VV	1383	17014	0.19%	0.009%
58	6.240	6.218	6.259	VV	1878	28093	0.31%	0.014%
59	6.274	6.259	6.282	VV	1064	12000	0.13%	0.006%
60	6.304	6.282	6.325	VV	2747	42809	0.47%	0.022%
61	6.338	6.325	6.355	VV	1002	13747	0.15%	0.007%
62	6.377	6.355	6.389	VV	1730	21966	0.24%	0.011%
63	6.405	6.389	6.435	VV	1148	21653	0.24%	0.011%
64	6.474	6.435	6.500	VV	1161	29265	0.32%	0.015%
65	6.537	6.500	6.573	VV	1023	35495	0.39%	0.018%
66	6.592	6.573	6.613	VV	2194	33317	0.37%	0.017%
67	6.668	6.613	6.725	VV	19028	316137	3.49%	0.163%
68	6.757	6.725	6.826	VV	728028	7300621	80.68%	3.765%
69	6.853	6.826	6.886	VV	4629	113345	1.25%	0.058%
70	6.905	6.886	6.915	VV	3478	48334	0.53%	0.025%
71	6.932	6.915	6.954	VV	6176	100326	1.11%	0.052%
72	6.974	6.954	6.981	VV	4403	61740	0.68%	0.032%
73	7.004	6.981	7.026	VV	5099	113379	1.25%	0.058%
74	7.039	7.026	7.052	VV	3968	53763	0.59%	0.028%
75	7.073	7.052	7.097	VV	15865	197121	2.18%	0.102%
76	7.126	7.097	7.147	VV	3111	82546	0.91%	0.043%
77	7.162	7.147	7.179	VV	3318	56985	0.63%	0.029%
78	7.191	7.179	7.207	VV	3197	49615	0.55%	0.026%
79	7.241	7.207	7.268	VV	5765	130186	1.44%	0.067%
80	7.281	7.268	7.296	VV	2713	43237	0.48%	0.022%
81	7.303	7.296	7.311	VV	2368	19998	0.22%	0.010%
82	7.332	7.311	7.343	VV	4823	70204	0.78%	0.036%
83	7.371	7.343	7.420	VV	936263	9048841	100.00%	4.667%
84	7.430	7.420	7.463	VV	5545	116282	1.29%	0.060%
85	7.482	7.463	7.510	VV	6145	126787	1.40%	0.065%
86	7.526	7.510	7.540	VV	5711	83647	0.92%	0.043%
87	7.551	7.540	7.568	VV	4808	68074	0.75%	0.035%
88	7.591	7.568	7.607	VV	5047	91094	1.01%	0.047%
89	7.635	7.607	7.657	VV	8323	147160	1.63%	0.076%

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90	7.664	7.657	7.673	VV	3326	31956	0.35%	0.016%
91	7.690	7.673	7.709	VV	6183	88875		
92	7.724	7.709	7.735	VV	3087	45276		
93	7.758	7.735	7.780	VV	12822	170672		
94	7.796	7.780	7.829	VV	4169	88707		
95	7.843	7.829	7.858	VV	4697	63343		
96	7.874	7.858	7.880	VV	3182	40709	0.45%	0.021%
97	7.900	7.880	7.912	VV	3693	65373	0.72%	0.034%
98	7.937	7.912	7.965	VV	113597	1212813	13.40%	0.625%
99	7.984	7.965	7.996	VV	4580	68305	0.75%	0.035%
100	8.024	7.996	8.065	VV	842787	8339221	92.16%	4.301%
101	8.072	8.065	8.104	VV	5889	104786	1.16%	0.054%
102	8.109	8.104	8.117	VV	3131	23940	0.26%	0.012%
103	8.130	8.117	8.154	VV	3999	69952	0.77%	0.036%
104	8.166	8.154	8.190	VV	3003	55552	0.61%	0.029%
105	8.221	8.190	8.271	VV	525436	5420474	59.90%	2.795%
106	8.284	8.271	8.292	VV	7411	84603	0.93%	0.044%
107	8.319	8.292	8.373	VV	894111	8868199	98.00%	4.574%
108	8.381	8.373	8.407	VV	4556	75574	0.84%	0.039%
109	8.425	8.407	8.448	VV	4242	83311	0.92%	0.043%
110	8.468	8.448	8.506	VV	10806	174195	1.93%	0.090%
111	8.523	8.506	8.567	VV	3492	82502	0.91%	0.043%
112	8.584	8.567	8.602	VV	2038	35866	0.40%	0.018%
113	8.612	8.602	8.626	VV	2090	28935	0.32%	0.015%
114	8.654	8.626	8.711	VV	70684	789988	8.73%	0.407%
115	8.727	8.711	8.734	VV	3361	38747	0.43%	0.020%
116	8.753	8.734	8.790	VV	15513	221721	2.45%	0.114%
117	8.802	8.790	8.820	VV	2187	31269	0.35%	0.016%
118	8.838	8.820	8.864	VV	1929	34688	0.38%	0.018%
119	8.888	8.864	8.921	VV	1458	32477	0.36%	0.017%
120	8.940	8.921	8.947	VV	1048	12312	0.14%	0.006%
121	8.951	8.947	8.958	VV	1059	5849	0.06%	0.003%
122	8.978	8.958	9.000	VV	1227	22965	0.25%	0.012%
123	9.028	9.000	9.040	VV	1037	19099	0.21%	0.010%
124	9.052	9.040	9.064	VV	1028	12919	0.14%	0.007%
125	9.098	9.064	9.236	VV	845142	8856952	97.88%	4.568%
126	9.256	9.236	9.294	VV	1637	33091	0.37%	0.017%
127	9.315	9.294	9.345	VV	11344	154077	1.70%	0.079%
128	9.355	9.345	9.369	VV	1954	21909	0.24%	0.011%
129	9.386	9.369	9.460	VV	25151	382068	4.22%	0.197%
130	9.472	9.460	9.495	VV	1523	24213	0.27%	0.012%
131	9.525	9.495	9.562	VV	79935	862689	9.53%	0.445%
132	9.579	9.562	9.587	VV	445	5323	0.06%	0.003%
133	9.591	9.587	9.595	VV	466	1977	0.02%	0.001%
134	9.618	9.595	9.660	VV	726	20790	0.23%	0.011%
135	9.675	9.660	9.683	VV	416	4184	0.05%	0.002%
136	9.692	9.683	9.721	VV	380	5654	0.06%	0.003%
137	9.746	9.721	9.760	VV	430	6210	0.07%	0.003%
138	9.789	9.760	9.799	VV	511	7269	0.08%	0.004%
139	9.801	9.799	9.822	VV	395	3946	0.04%	0.002%
140	9.842	9.822	9.850	VV	740	9109	0.10%	0.005%
141	9.857	9.850	9.862	VV	505	3481	0.04%	0.002%

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142	9.869	9.862	9.899	VV	503	8732	0.10%	0.005%
143	9.906	9.899	9.912	VV	668	4491		
144	9.918	9.912	9.932	VV	763	7100		
145	9.946	9.932	9.978	VV	785	16202		
146	9.983	9.978	10.007	VV	562	8448		
147	10.027	10.007	10.067	VV	1011	19103		
148	10.073	10.067	10.084	VV	384	2769	0.03%	0.001%
149	10.107	10.084	10.127	VV	1030	18166	0.20%	0.009%
150	10.135	10.127	10.157	VV	1089	16442	0.18%	0.008%
151	10.162	10.157	10.180	VV	764	8533	0.09%	0.004%
152	10.199	10.180	10.217	VV	833	16094	0.18%	0.008%
153	10.222	10.217	10.245	VV	804	12024	0.13%	0.006%
154	10.260	10.245	10.285	VV	1187	20470	0.23%	0.011%
155	10.303	10.285	10.357	VV	5201	89128	0.98%	0.046%
156	10.383	10.357	10.411	VV	2054	32768	0.36%	0.017%
157	10.452	10.411	10.456	PV	5944	46465	0.51%	0.024%
158	10.485	10.456	10.530	VV	844613	8825855	97.54%	4.552%
159	10.561	10.530	10.670	VV	796596	8833920	97.62%	4.556%
160	10.678	10.670	10.705	VV	2407	38214	0.42%	0.020%
161	10.715	10.705	10.722	VV	1492	13442	0.15%	0.007%
162	10.723	10.722	10.729	VV	1296	4711	0.05%	0.002%
163	10.736	10.729	10.745	VV	1110	9000	0.10%	0.005%
164	10.759	10.745	10.819	VV	1399	34974	0.39%	0.018%
165	10.838	10.819	10.871	VV	1810	35063	0.39%	0.018%
166	10.889	10.871	10.916	VV	1166	23452	0.26%	0.012%
167	10.956	10.916	11.002	VV	75905	869547	9.61%	0.448%
168	11.008	11.002	11.014	VV	657	3724	0.04%	0.002%
169	11.038	11.014	11.065	VV	1437	23900	0.26%	0.012%
170	11.071	11.065	11.090	VV	503	5716	0.06%	0.003%
171	11.109	11.090	11.131	VV	902	12085	0.13%	0.006%
172	11.151	11.131	11.183	VV	785	13625	0.15%	0.007%
173	11.187	11.183	11.195	VV	271	1661	0.02%	0.001%
174	11.200	11.195	11.210	VV	277	1645	0.02%	0.001%
175	11.255	11.210	11.304	VV	555328	5940924	65.65%	3.064%
176	11.308	11.304	11.316	VV	1140	7127	0.08%	0.004%
177	11.325	11.316	11.369	VV	975	26331	0.29%	0.014%
178	11.388	11.369	11.394	VV	971	11052	0.12%	0.006%
179	11.424	11.394	11.444	VV	2181	40366	0.45%	0.021%
180	11.459	11.444	11.471	VV	1156	14875	0.16%	0.008%
181	11.488	11.471	11.526	VV	1247	27887	0.31%	0.014%
182	11.537	11.526	11.570	VV	512	11655	0.13%	0.006%
183	11.613	11.570	11.639	VV	1454	35162	0.39%	0.018%
184	11.676	11.639	11.698	VV	8070	107542	1.19%	0.055%
185	11.710	11.698	11.735	VV	1664	23719	0.26%	0.012%
186	11.754	11.735	11.764	VV	940	13381	0.15%	0.007%
187	11.770	11.764	11.789	VV	799	9916	0.11%	0.005%
188	11.838	11.789	11.849	VV	1467	35982	0.40%	0.019%
189	11.872	11.849	11.946	VV	27761	382893	4.23%	0.197%
190	11.960	11.946	11.974	VV	1132	16494	0.18%	0.009%
191	11.977	11.974	11.983	VV	904	4843	0.05%	0.002%
192	11.994	11.983	12.013	VV	998	15955	0.18%	0.008%
193	12.024	12.013	12.044	VV	1104	17440	0.19%	0.009%
194	12.050	12.044	12.058	VV	959	6429	0.07%	0.003%

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195	12.087	12.058	12.101	VV	1150	22038	0.24%	0.011%
196	12.125	12.101	12.148	VV	4351	64316		
197	12.183	12.148	12.195	VV	1679	31231		
198	12.223	12.195	12.234	VV	5031	64966		
199	12.258	12.234	12.265	VV	75799	737053		
200	12.290	12.265	12.373	VV	782031	9023530	9	
201	12.379	12.373	12.383	VV	1279	6465	0.07%	0.003%
202	12.391	12.383	12.410	VV	1404	20187	0.22%	0.010%
203	12.417	12.410	12.423	VV	1063	7599	0.08%	0.004%
204	12.436	12.423	12.452	VV	1060	16174	0.18%	0.008%
205	12.475	12.452	12.524	VV	6812	118315	1.31%	0.061%
206	12.534	12.524	12.545	VV	1086	12554	0.14%	0.006%
207	12.583	12.545	12.632	VV	773866	8866792	97.99%	4.573%
208	12.650	12.632	12.669	VV	8408	129997	1.44%	0.067%
209	12.695	12.669	12.725	VV	93261	1097338	12.13%	0.566%
210	12.742	12.725	12.772	VV	1999	43940	0.49%	0.023%
211	12.776	12.772	12.795	VV	1175	14735	0.16%	0.008%
212	12.803	12.795	12.809	VV	1088	7821	0.09%	0.004%
213	12.828	12.809	12.835	VV	1408	19487	0.22%	0.010%
214	12.865	12.835	12.893	VV	70147	833997	9.22%	0.430%
215	12.922	12.893	12.969	VV	5439	117025	1.29%	0.060%
216	12.992	12.969	13.007	VV	1289	25099	0.28%	0.013%
217	13.014	13.007	13.042	VV	1054	19613	0.22%	0.010%
218	13.095	13.042	13.172	VV	11640	244536	2.70%	0.126%
219	13.210	13.172	13.237	VV	1684	48015	0.53%	0.025%
220	13.239	13.237	13.255	VV	1111	10562	0.12%	0.005%
221	13.271	13.255	13.289	VV	1424	23713	0.26%	0.012%
222	13.294	13.289	13.303	VV	1116	8960	0.10%	0.005%
223	13.318	13.303	13.337	VV	1368	22340	0.25%	0.012%
224	13.353	13.337	13.365	VV	1234	17804	0.20%	0.009%
225	13.394	13.365	13.417	VV	1535	35127	0.39%	0.018%
226	13.448	13.417	13.499	VV	67856	846117	9.35%	0.436%
227	13.510	13.499	13.539	VV	1170	22227	0.25%	0.011%
228	13.541	13.539	13.572	VV	638	11228	0.12%	0.006%
229	13.576	13.572	13.580	VV	593	2389	0.03%	0.001%
230	13.587	13.580	13.600	VV	623	5932	0.07%	0.003%
231	13.608	13.600	13.637	VV	618	11420	0.13%	0.006%
232	13.642	13.637	13.647	VV	543	2708	0.03%	0.001%
233	13.661	13.647	13.667	VV	627	6526	0.07%	0.003%
234	13.672	13.667	13.677	VV	619	3056	0.03%	0.002%
235	13.705	13.677	13.724	VV	735	17122	0.19%	0.009%
236	13.728	13.724	13.733	VV	647	3380	0.04%	0.002%
237	13.740	13.733	13.774	VV	742	15377	0.17%	0.008%
238	13.784	13.774	13.799	VV	732	8120	0.09%	0.004%
239	13.806	13.799	13.811	VV	692	4149	0.05%	0.002%
240	13.814	13.811	13.819	VV	548	2426	0.03%	0.001%
241	13.845	13.819	13.861	VV	1108	21933	0.24%	0.011%
242	13.885	13.861	13.913	VV	2002	39591	0.44%	0.020%
243	13.918	13.913	13.952	VV	1086	18022	0.20%	0.009%
244	13.970	13.952	13.994	VV	1607	25711	0.28%	0.013%
245	14.003	13.994	14.031	VV	1065	20306	0.22%	0.010%
246	14.036	14.031	14.061	VV	874	13372	0.15%	0.007%

Instrument :
FID_D
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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

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247	14.067	14.061	14.080	VV	808	7774	0.09%	0.004%
248	14.107	14.080	14.114	VV	1310	19906		
249	14.116	14.114	14.143	VV	1230	18084		
250	14.165	14.143	14.197	VV	1451	33191		
251	14.205	14.197	14.249	VV	870	23257		
252	14.259	14.249	14.263	VV	804	6177		
253	14.272	14.263	14.292	VV	849	13281	0.15%	0.007%
254	14.313	14.292	14.338	VV	976	22554	0.25%	0.012%
255	14.353	14.338	14.374	VV	981	17114	0.19%	0.009%
256	14.393	14.374	14.403	VV	1046	16042	0.18%	0.008%
257	14.408	14.403	14.413	VV	915	5338	0.06%	0.003%
258	14.453	14.413	14.471	VV	656348	8343508	92.21%	4.303%
259	14.495	14.471	14.524	VV	696962	8310594	91.84%	4.286%
260	14.544	14.524	14.575	VV	68294	939667	10.38%	0.485%
261	14.585	14.575	14.632	VV	4067	93877	1.04%	0.048%
262	14.637	14.632	14.642	VV	1749	10071	0.11%	0.005%
263	14.646	14.642	14.665	VV	1754	22383	0.25%	0.012%
264	14.670	14.665	14.702	VV	1588	27083	0.30%	0.014%
265	14.716	14.702	14.768	VV	1452	43876	0.48%	0.023%
266	14.775	14.768	14.792	VV	1097	13802	0.15%	0.007%
267	14.795	14.792	14.819	VV	1009	11897	0.13%	0.006%
268	14.837	14.819	14.844	VV	918	11220	0.12%	0.006%
269	14.850	14.844	14.863	VV	975	9858	0.11%	0.005%
270	14.884	14.863	14.896	VV	2757	35590	0.39%	0.018%
271	14.919	14.896	15.027	VV	13992	326922	3.61%	0.169%
272	15.032	15.027	15.045	VV	1224	12579	0.14%	0.006%
273	15.073	15.045	15.099	VV	3824	67498	0.75%	0.035%
274	15.114	15.099	15.139	VV	1205	23508	0.26%	0.012%
275	15.161	15.139	15.231	VV	1344	58990	0.65%	0.030%
276	15.262	15.231	15.274	VV	1590	31580	0.35%	0.016%
277	15.279	15.274	15.289	VV	1205	9675	0.11%	0.005%
278	15.292	15.289	15.296	VV	1243	5237	0.06%	0.003%
279	15.301	15.296	15.314	VV	1273	13192	0.15%	0.007%
280	15.319	15.314	15.339	VV	1229	16187	0.18%	0.008%
281	15.356	15.339	15.374	VV	1262	23432	0.26%	0.012%
282	15.377	15.374	15.387	VV	1099	8596	0.09%	0.004%
283	15.402	15.387	15.412	VV	1469	19178	0.21%	0.010%
284	15.417	15.412	15.428	VV	1369	12003	0.13%	0.006%
285	15.442	15.428	15.473	VV	1381	31576	0.35%	0.016%
286	15.489	15.473	15.493	VV	1160	12415	0.14%	0.006%
287	15.498	15.493	15.502	VV	1151	5801	0.06%	0.003%
288	15.504	15.502	15.510	VV	1173	5602	0.06%	0.003%
289	15.520	15.510	15.528	VV	1489	14633	0.16%	0.008%
290	15.561	15.528	15.597	VV	57712	772681	8.54%	0.398%
291	15.607	15.597	15.612	VV	1331	11391	0.13%	0.006%
292	15.617	15.612	15.636	VV	1281	15831	0.17%	0.008%
293	15.640	15.636	15.657	VV	908	10469	0.12%	0.005%
294	15.663	15.657	15.688	VV	836	12622	0.14%	0.007%
295	15.709	15.688	15.752	VV	1035	33344	0.37%	0.017%
296	15.761	15.752	15.770	VV	1023	9481	0.10%	0.005%
297	15.774	15.770	15.782	VV	977	6499	0.07%	0.003%
298	15.792	15.782	15.810	VV	963	13820	0.15%	0.007%
299	15.830	15.810	15.855	VV	1086	23459	0.26%	0.012%

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Instrument :
FID_D
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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

A B C D E F G H I J

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300	15.887	15.855	15.906	VV	938	25533	0.28%	0.013%
301	15.932	15.906	15.959	VV	1862	43615		
302	16.001	15.959	16.015	VV	610703	8376197	92	
303	16.036	16.015	16.094	VV	706949	8428946	93	
304	16.116	16.094	16.142	VV	5853	111098		
305	16.145	16.142	16.164	VV	2038	24837		
306	16.181	16.164	16.207	VV	2163	48988	0.54%	0.025%
307	16.212	16.207	16.217	VV	1714	9694	0.11%	0.005%
308	16.259	16.217	16.303	VV	3930	111000	1.23%	0.057%
309	16.318	16.303	16.336	VV	2572	39059	0.43%	0.020%
310	16.377	16.336	16.454	VV	615259	8146995	90.03%	4.202%
311	16.503	16.454	16.533	VV	58410	906689	10.02%	0.468%
312	16.547	16.533	16.570	VV	3976	66017	0.73%	0.034%
313	16.579	16.570	16.601	VV	1817	29491	0.33%	0.015%
314	16.605	16.601	16.615	VV	1535	12710	0.14%	0.007%
315	16.623	16.615	16.627	VV	1531	10200	0.11%	0.005%
316	16.631	16.627	16.637	VV	1454	8594	0.09%	0.004%
317	16.654	16.637	16.667	VV	1625	26950	0.30%	0.014%
318	16.675	16.667	16.685	VV	1594	15524	0.17%	0.008%
319	16.695	16.685	16.700	VV	1484	12488	0.14%	0.006%
320	16.704	16.700	16.732	VV	1619	28549	0.32%	0.015%
321	16.748	16.732	16.753	VV	1405	15778	0.17%	0.008%
322	16.768	16.753	16.777	VV	1568	20529	0.23%	0.011%
323	16.808	16.777	16.848	VV	2260	77533	0.86%	0.040%
324	16.874	16.848	16.906	VV	1985	57872	0.64%	0.030%
325	16.949	16.906	16.985	VV	3229	95635	1.06%	0.049%
326	17.031	16.985	17.039	VV	1672	45209	0.50%	0.023%
327	17.047	17.039	17.055	VV	1614	14819	0.16%	0.008%
328	17.070	17.055	17.086	VV	1770	30651	0.34%	0.016%
329	17.096	17.086	17.102	VV	1595	15247	0.17%	0.008%
330	17.110	17.102	17.118	VV	1638	14266	0.16%	0.007%
331	17.127	17.118	17.135	VV	1552	14310	0.16%	0.007%
332	17.147	17.135	17.169	VV	1640	31276	0.35%	0.016%
333	17.184	17.169	17.204	VV	1675	31727	0.35%	0.016%
334	17.207	17.204	17.217	VV	1616	12189	0.13%	0.006%
335	17.247	17.217	17.257	VV	1917	40156	0.44%	0.021%
336	17.278	17.257	17.314	VV	2322	64437	0.71%	0.033%
337	17.319	17.314	17.323	VV	1743	8889	0.10%	0.005%
338	17.389	17.323	17.434	VV	54911	842906	9.32%	0.435%
339	17.439	17.434	17.447	VV	1771	13308	0.15%	0.007%
340	17.475	17.447	17.512	VV	4560	107101	1.18%	0.055%
341	17.519	17.512	17.528	VV	1913	16558	0.18%	0.009%
342	17.541	17.528	17.567	VV	2078	43832	0.48%	0.023%
343	17.583	17.567	17.620	VV	1853	55529	0.61%	0.029%
344	17.625	17.620	17.643	VV	1731	21681	0.24%	0.011%
345	17.690	17.643	17.702	VV	2437	74076	0.82%	0.038%
346	17.746	17.702	17.759	VV	601765	8361177	92.40%	4.312%
347	17.782	17.759	17.953	VV	585095	8440594	93.28%	4.353%
348	17.998	17.953	18.139	VV	549653	8497722	93.91%	4.382%

Sum of corrected areas: 193903623

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Manual Integration Report

Sequence:	FC102324AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FC110824AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4721-01	FC067680.D	1-chlorooctadecane (SURR)	yogesh	11/11/2024 9:23:48 AM	Ankita	11/11/2024 9:54:58	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC111124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4721-01DL	FC067688.D	1-chlorooctadecane (SURR)	yogesh	11/12/2024 8:37:44 AM	Ankita	11/12/2024 10:07:19	Peak Integrated by Software
P4721-02DL	FC067690.D	1-chlorooctadecane (SURR)	yogesh	11/12/2024 8:37:47 AM	Ankita	11/12/2024 10:07:21	Peak Integrated by Software
P4721-02DL2	FC067691.D	1-chlorooctadecane (SURR)	yogesh	11/12/2024 8:37:48 AM	Ankita	11/12/2024 10:07:23	Peak Integrated by Software
P4791-02	FC067698.D	1-chlorooctadecane (SURR)	yogesh	11/12/2024 8:37:50 AM	Ankita	11/12/2024 10:07:25	Peak Integrated by Software
P4792-04	FC067699.D	1-chlorooctadecane (SURR)	yogesh	11/12/2024 8:37:51 AM	Ankita	11/12/2024 10:07:26	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067701.D	n-Hexatriacontane (C36)	yogesh	11/12/2024 8:37:53 AM	Ankita	11/12/2024 10:07:28	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067701.D	n-Octatriacontane (C38)	yogesh	11/12/2024 8:37:53 AM	Ankita	11/12/2024 10:07:28	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067701.D	n-Tetracontane (C40)	yogesh	11/12/2024 8:37:53 AM	Ankita	11/12/2024 10:07:28	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD102324AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FD110824AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD048669.D	Benzo[a]anthracene (C26.37)	yogesh	11/11/2024 9:24:04 AM	Ankita	11/11/2024 9:55:12	Peak Integrated by Software
20 PPM AROMATIC HC	FD048669.D	benzo[b]fluoranthene (C30.41)	yogesh	11/11/2024 9:24:04 AM	Ankita	11/11/2024 9:55:12	Peak Integrated by Software
20 PPM AROMATIC HC	FD048669.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/11/2024 9:24:04 AM	Ankita	11/11/2024 9:55:12	Peak Integrated by Software
20 PPM AROMATIC HC	FD048669.D	Fluoranthene (C21.85)	yogesh	11/11/2024 9:24:04 AM	Ankita	11/11/2024 9:55:12	Peak Integrated by Software
PB164790BS	FD048674.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/11/2024 9:24:06 AM	Ankita	11/11/2024 9:55:14	Peak Integrated by Software
PB164790BS	FD048674.D	Fluoranthene (C21.85)	yogesh	11/11/2024 9:24:06 AM	Ankita	11/11/2024 9:55:14	Peak Integrated by Software
PB164790BSD	FD048675.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/11/2024 9:24:08 AM	Ankita	11/11/2024 9:55:15	Peak Integrated by Software
PB164790BSD	FD048675.D	Fluoranthene (C21.85)	yogesh	11/11/2024 9:24:08 AM	Ankita	11/11/2024 9:55:15	Peak Integrated by Software
P4718-01MS	FD048678.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/11/2024 9:24:10 AM	Ankita	11/11/2024 9:55:17	Peak Integrated by Software
P4718-01MS	FD048678.D	Benzo[a]anthracene (C26.37)	yogesh	11/11/2024 9:24:10 AM	Ankita	11/11/2024 9:55:17	Peak Integrated by Software
P4718-01MS	FD048678.D	Fluoranthene (C21.85)	yogesh	11/11/2024 9:24:10 AM	Ankita	11/11/2024 9:55:17	Peak Integrated by Software
P4718-01MS	FD048678.D	ortho-Terphenyl (SURR)	yogesh	11/11/2024 9:24:10 AM	Ankita	11/11/2024 9:55:17	Peak Integrated by Software
P4718-01MSD	FD048679.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/11/2024 9:24:11 AM	Ankita	11/11/2024 9:55:18	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD110824AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4718-01MSD	FD048679.D	Fluoranthene (C21.85)	yogesh	11/11/2024 9:24:11 AM	Ankita	11/11/2024 9:55:18	Peak Integrated by Software
P4721-01	FD048681.D	2-Bromonaphthalene (SURR)	yogesh	11/11/2024 9:24:13 AM	Ankita	11/11/2024 9:55:20	Peak Integrated by Software
P4721-01	FD048681.D	2-Flurobiphenyl (SURR)	yogesh	11/11/2024 9:24:13 AM	Ankita	11/11/2024 9:55:20	Peak Integrated by Software
P4721-01	FD048681.D	ortho-Terphenyl (SURR)	yogesh	11/11/2024 9:24:13 AM	Ankita	11/11/2024 9:55:20	Peak Integrated by Software
P4721-02	FD048682.D	2-Bromonaphthalene (SURR)	yogesh	11/11/2024 9:24:15 AM	Ankita	11/11/2024 9:55:21	Peak Integrated by Software
P4721-02	FD048682.D	2-Flurobiphenyl (SURR)	yogesh	11/11/2024 9:24:15 AM	Ankita	11/11/2024 9:55:21	Peak Integrated by Software
P4721-02	FD048682.D	ortho-Terphenyl (SURR)	yogesh	11/11/2024 9:24:15 AM	Ankita	11/11/2024 9:55:21	Peak Integrated by Software
P4721-03	FD048683.D	2-Bromonaphthalene (SURR)	yogesh	11/11/2024 9:24:17 AM	Ankita	11/11/2024 9:55:23	Peak Integrated by Software
P4721-03	FD048683.D	2-Flurobiphenyl (SURR)	yogesh	11/11/2024 9:24:17 AM	Ankita	11/11/2024 9:55:23	Peak Integrated by Software
P4721-03	FD048683.D	ortho-Terphenyl (SURR)	yogesh	11/11/2024 9:24:17 AM	Ankita	11/11/2024 9:55:23	Peak Integrated by Software
P4721-04	FD048684.D	2-Bromonaphthalene (SURR)	yogesh	11/11/2024 9:24:18 AM	Ankita	11/11/2024 9:55:24	Peak Integrated by Software
P4721-04	FD048684.D	2-Flurobiphenyl (SURR)	yogesh	11/11/2024 9:24:18 AM	Ankita	11/11/2024 9:55:24	Peak Integrated by Software
P4721-04	FD048684.D	ortho-Terphenyl (SURR)	yogesh	11/11/2024 9:24:18 AM	Ankita	11/11/2024 9:55:24	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD110824AR	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:	FD111124AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4721-01DL	FD048691.D	2-Bromonaphthalene (SURR)	yogesh	11/12/2024 8:36:59 AM	Ankita	11/12/2024 10:06:46	Peak Integrated by Software
P4721-01DL	FD048691.D	2-Flurobiphenyl (SURR)	yogesh	11/12/2024 8:36:59 AM	Ankita	11/12/2024 10:06:46	Peak Integrated by Software
P4721-01DL	FD048691.D	ortho-Terphenyl (SURR)	yogesh	11/12/2024 8:36:59 AM	Ankita	11/12/2024 10:06:46	Peak Integrated by Software
P4721-02DL	FD048692.D	2-Bromonaphthalene (SURR)	yogesh	11/12/2024 8:37:01 AM	Ankita	11/12/2024 10:06:47	Peak Integrated by Software
P4721-02DL	FD048692.D	2-Flurobiphenyl (SURR)	yogesh	11/12/2024 8:37:01 AM	Ankita	11/12/2024 10:06:47	Peak Integrated by Software
P4721-03DL	FD048693.D	2-Bromonaphthalene (SURR)	yogesh	11/12/2024 8:37:03 AM	Ankita	11/12/2024 10:06:49	Peak Integrated by Software
P4721-03DL	FD048693.D	2-Flurobiphenyl (SURR)	yogesh	11/12/2024 8:37:03 AM	Ankita	11/12/2024 10:06:49	Peak Integrated by Software
P4721-03DL	FD048693.D	ortho-Terphenyl (SURR)	yogesh	11/12/2024 8:37:03 AM	Ankita	11/12/2024 10:06:49	Peak Integrated by Software
P4721-04DL	FD048694.D	2-Bromonaphthalene (SURR)	yogesh	11/12/2024 8:37:05 AM	Ankita	11/12/2024 10:06:50	Peak Integrated by Software
P4721-04DL	FD048694.D	2-Flurobiphenyl (SURR)	yogesh	11/12/2024 8:37:05 AM	Ankita	11/12/2024 10:06:50	Peak Integrated by Software
P4721-04DL	FD048694.D	ortho-Terphenyl (SURR)	yogesh	11/12/2024 8:37:05 AM	Ankita	11/12/2024 10:06:50	Peak Integrated by Software
P4721-04DL2	FD048695.D	2-Bromonaphthalene (SURR)	yogesh	11/12/2024 8:37:06 AM	Ankita	11/12/2024 10:06:52	Peak Integrated by Software
P4721-04DL2	FD048695.D	2-Flurobiphenyl (SURR)	yogesh	11/12/2024 8:37:06 AM	Ankita	11/12/2024 10:06:52	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD111124AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4721-04DL2	FD048695.D	ortho-Terphenyl (SURR)	yogesh	11/12/2024 8:37:06 AM	Ankita	11/12/2024 10:06:52	Peak Integrated by Software
PB164847BS	FD048699.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/12/2024 8:37:08 AM	Ankita	11/12/2024 10:06:53	Peak Integrated by Software
PB164847BS	FD048699.D	Fluoranthene (C21.85)	yogesh	11/12/2024 8:37:08 AM	Ankita	11/12/2024 10:06:53	Peak Integrated by Software
PB164847BSD	FD048700.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/12/2024 8:37:10 AM	Ankita	11/12/2024 10:06:55	Peak Integrated by Software
PB164847BSD	FD048700.D	Fluoranthene (C21.85)	yogesh	11/12/2024 8:37:10 AM	Ankita	11/12/2024 10:06:55	Peak Integrated by Software
P4791-02	FD048702.D	2-Bromonaphthalene (SURR)	yogesh	11/12/2024 8:37:12 AM	Ankita	11/12/2024 10:06:56	Peak Integrated by Software
P4791-02	FD048702.D	2-Flurobiphenyl (SURR)	yogesh	11/12/2024 8:37:12 AM	Ankita	11/12/2024 10:06:56	Peak Integrated by Software
P4791-02	FD048702.D	ortho-Terphenyl (SURR)	yogesh	11/12/2024 8:37:12 AM	Ankita	11/12/2024 10:06:56	Peak Integrated by Software
P4792-04	FD048703.D	ortho-Terphenyl (SURR)	yogesh	11/12/2024 8:37:14 AM	Ankita	11/12/2024 10:06:58	Peak Integrated by Software
20 PPM AROMATIC HC	FD048705.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/12/2024 8:37:15 AM	Ankita	11/12/2024 10:06:59	Peak Integrated by Software
20 PPM AROMATIC HC	FD048705.D	Chrysene (C27.41)	yogesh	11/12/2024 8:37:15 AM	Ankita	11/12/2024 10:06:59	Peak Integrated by Software
20 PPM AROMATIC HC	FD048705.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/12/2024 8:37:15 AM	Ankita	11/12/2024 10:06:59	Peak Integrated by Software
20 PPM AROMATIC HC	FD048705.D	Phenanthrene (C19.36)	yogesh	11/12/2024 8:37:15 AM	Ankita	11/12/2024 10:06:59	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD111124AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM		
SubDirectory	FC102324AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067504.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FC067505.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067506.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067507.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067508.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC067509.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067510.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC067511.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FC067512.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067513.D	23 Oct 2024 20:03	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC110824AL

Review By	yogesh	Review On	11/8/2024 1:23:09 PM		
Supervise By	Ankita	Supervise On	11/11/2024 9:55:02 AM		
SubDirectory	FC110824AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067667.D	08 Nov 2024 10:14	YP/AJ	Ok
2	I.BLK	FC067668.D	08 Nov 2024 12:41	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067669.D	08 Nov 2024 13:17	YP/AJ	Ok
4	PB164790BL	FC067670.D	08 Nov 2024 16:19	YP/AJ	Ok
5	PB164790BS	FC067671.D	08 Nov 2024 16:55	YP/AJ	Ok
6	PB164790BSD	FC067672.D	08 Nov 2024 17:32	YP/AJ	Ok
7	P4718-01	FC067673.D	08 Nov 2024 18:08	YP/AJ	Ok
8	P4718-01D	FC067674.D	08 Nov 2024 18:45	YP/AJ	Ok
9	P4718-01MS	FC067675.D	08 Nov 2024 19:21	YP/AJ	Ok
10	P4718-01MSD	FC067676.D	08 Nov 2024 19:57	YP/AJ	Ok
11	P4718-02	FC067677.D	08 Nov 2024 20:33	YP/AJ	Ok
12	P4771-05	FC067678.D	08 Nov 2024 21:10	YP/AJ	Dilution
13	P4771-07	FC067679.D	08 Nov 2024 21:46	YP/AJ	Ok
14	P4721-01	FC067680.D	08 Nov 2024 22:23	YP/AJ	Dilution
15	P4721-02	FC067681.D	08 Nov 2024 23:00	YP/AJ	Dilution
16	I.BLK	FC067682.D	08 Nov 2024 23:37	YP/AJ	Ok
17	20 PPM ALIPHATIC HC STD	FC067683.D	09 Nov 2024 00:50	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111124AL

Review By	yogesh	Review On	11/11/2024 11:19:51 AM		
Supervise By	Ankita	Supervise On	11/12/2024 10:07:32 AM		
SubDirectory	FC111124AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067684.D	11 Nov 2024 07:57	YP/AJ	Ok
2	I.BLK	FC067685.D	11 Nov 2024 08:33	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067686.D	11 Nov 2024 09:10	YP/AJ	Ok
4	P4771-05DL	FC067687.D	11 Nov 2024 09:48	YP/AJ	Ok
5	P4721-01DL	FC067688.D	11 Nov 2024 10:25	YP/AJ	Dilution
6	P4721-01DL2	FC067689.D	11 Nov 2024 11:02	YP/AJ	Ok
7	P4721-02DL	FC067690.D	11 Nov 2024 11:39	YP/AJ	Dilution
8	P4721-02DL2	FC067691.D	11 Nov 2024 12:15	YP/AJ	Ok,M
9	I.BLK	FC067692.D	11 Nov 2024 13:29	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067693.D	11 Nov 2024 14:05	YP/AJ	Ok
11	PB164847BL	FC067694.D	11 Nov 2024 15:19	YP/AJ	Ok
12	PB164847BS	FC067695.D	11 Nov 2024 15:56	YP/AJ	Ok
13	PB164847BSD	FC067696.D	11 Nov 2024 16:33	YP/AJ	Ok
14	P4718-04	FC067697.D	11 Nov 2024 17:10	YP/AJ	Ok
15	P4791-02	FC067698.D	11 Nov 2024 17:47	YP/AJ	Dilution
16	P4792-04	FC067699.D	11 Nov 2024 18:23	YP/AJ	Dilution
17	I.BLK	FC067700.D	12 Nov 2024 00:32	YP/AJ	Ok
18	20 PPM ALIPHATIC HC STD	FC067701.D	12 Nov 2024 01:09	YP/AJ	Ok,M

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

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	FD048566.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FD048567.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048568.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048569.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048570.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048571.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD048572.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD048573.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FD048574.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048575.D	23 Oct 2024 20:03	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD110824AR

Review By	yogesh	Review On	11/8/2024 1:24:18 PM		
Supervise By	Ankita	Supervise On	11/11/2024 9:55:33 AM		
SubDirectory	FD110824AR	HP Acquire Method		HP Processing Method	FD102324AR

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	FD048667.D	08 Nov 2024 10:14	YP/AJ	Ok
2	I.BLK	FD048668.D	08 Nov 2024 10:51	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048669.D	08 Nov 2024 11:28	YP/AJ	Ok,M
4	PP23948	FD048670.D	08 Nov 2024 12:05	YP/AJ	Ok
5	I.BLK	FD048671.D	08 Nov 2024 12:41	YP/AJ	Ok
6	20 PPM AROMATIC HC STD	FD048672.D	08 Nov 2024 13:17	YP/AJ	Ok
7	PB164790BL	FD048673.D	08 Nov 2024 16:19	YP/AJ	Ok
8	PB164790BS	FD048674.D	08 Nov 2024 16:55	YP/AJ	Ok,M
9	PB164790BSD	FD048675.D	08 Nov 2024 17:32	YP/AJ	Ok,M
10	P4718-01	FD048676.D	08 Nov 2024 18:08	YP/AJ	Ok
11	P4718-01D	FD048677.D	08 Nov 2024 18:45	YP/AJ	Ok
12	P4718-01MS	FD048678.D	08 Nov 2024 19:21	YP/AJ	Ok,M
13	P4718-01MSD	FD048679.D	08 Nov 2024 19:57	YP/AJ	Ok,M
14	P4718-02	FD048680.D	08 Nov 2024 20:33	YP/AJ	Ok
15	P4721-01	FD048681.D	08 Nov 2024 21:10	YP/AJ	Dilution
16	P4721-02	FD048682.D	08 Nov 2024 21:46	YP/AJ	Dilution
17	P4721-03	FD048683.D	08 Nov 2024 22:23	YP/AJ	Dilution
18	P4721-04	FD048684.D	08 Nov 2024 23:00	YP/AJ	Dilution
19	I.BLK	FD048685.D	08 Nov 2024 23:37	YP/AJ	Ok
20	20 PPM AROMATIC HC STD	FD048686.D	09 Nov 2024 00:50	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111124AR

Review By	yogesh	Review On	11/11/2024 11:20:54 AM		
Supervise By	Ankita	Supervise On	11/12/2024 10:07:09 AM		
SubDirectory	FD111124AR	HP Acquire Method		HP Processing Method	FD102324AR

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	FD048687.D	11 Nov 2024 07:57	YP/AJ	Ok
2	I.BLK	FD048688.D	11 Nov 2024 08:33	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048689.D	11 Nov 2024 09:10	YP/AJ	Ok
4	P4721-06	FD048690.D	11 Nov 2024 09:48	YP/AJ	Ok
5	P4721-01DL	FD048691.D	11 Nov 2024 10:25	YP/AJ	Ok,M
6	P4721-02DL	FD048692.D	11 Nov 2024 11:02	YP/AJ	Ok,M
7	P4721-03DL	FD048693.D	11 Nov 2024 11:39	YP/AJ	Ok,M
8	P4721-04DL	FD048694.D	11 Nov 2024 12:15	YP/AJ	Dilution
9	P4721-04DL2	FD048695.D	11 Nov 2024 12:52	YP/AJ	Ok,M
10	I.BLK	FD048696.D	11 Nov 2024 14:05	YP/AJ	Ok
11	20 PPM AROMATIC HC STD	FD048697.D	11 Nov 2024 14:42	YP/AJ	Ok
12	PB164847BL	FD048698.D	11 Nov 2024 15:19	YP/AJ	Ok
13	PB164847BS	FD048699.D	11 Nov 2024 15:56	YP/AJ	Ok,M
14	PB164847BSD	FD048700.D	11 Nov 2024 16:33	YP/AJ	Ok,M
15	P4718-04	FD048701.D	11 Nov 2024 17:10	YP/AJ	Ok
16	P4791-02	FD048702.D	11 Nov 2024 17:47	YP/AJ	Dilution
17	P4792-04	FD048703.D	11 Nov 2024 18:23	YP/AJ	Dilution
18	I.BLK	FD048704.D	12 Nov 2024 00:32	YP/AJ	Ok
19	20 PPM AROMATIC HC STD	FD048705.D	12 Nov 2024 01:09	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM		
SubDirectory	FC102324AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067504.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FC067505.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC067506.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067507.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067508.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC067509.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067510.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067511.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FC067512.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067513.D	23 Oct 2024 20:03		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC110824AL

Review By	yogesh	Review On	11/8/2024 1:23:09 PM		
Supervise By	Ankita	Supervise On	11/11/2024 9:55:02 AM		
SubDirectory	FC110824AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067667.D	08 Nov 2024 10:14		YP/AJ	Ok
2	I.BLK	I.BLK	FC067668.D	08 Nov 2024 12:41		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067669.D	08 Nov 2024 13:17		YP/AJ	Ok
4	PB164790BL	PB164790BL	FC067670.D	08 Nov 2024 16:19		YP/AJ	Ok
5	PB164790BS	PB164790BS	FC067671.D	08 Nov 2024 16:55		YP/AJ	Ok
6	PB164790BSD	PB164790BSD	FC067672.D	08 Nov 2024 17:32		YP/AJ	Ok
7	P4718-01	WB-307-SB01	FC067673.D	08 Nov 2024 18:08		YP/AJ	Ok
8	P4718-01D	P4718-01D	FC067674.D	08 Nov 2024 18:45		YP/AJ	Ok
9	P4718-01MS	WB-307-SB01MS	FC067675.D	08 Nov 2024 19:21	FC067673.D	YP/AJ	Ok
10	P4718-01MSD	WB-307-SB01MSD	FC067676.D	08 Nov 2024 19:57	FC067673.D!FC067675.D	YP/AJ	Ok
11	P4718-02	WB-307-SB02	FC067677.D	08 Nov 2024 20:33		YP/AJ	Ok
12	P4771-05	P-1	FC067678.D	08 Nov 2024 21:10	need 2x dilution	YP/AJ	Dilution
13	P4771-07	P-2	FC067679.D	08 Nov 2024 21:46		YP/AJ	Ok
14	P4721-01	EX-2-TPH-1	FC067680.D	08 Nov 2024 22:23	need 50x & 200X dilution	YP/AJ	Dilution
15	P4721-02	EX-2-TPH-2	FC067681.D	08 Nov 2024 23:00	need 10x & 50X dilution	YP/AJ	Dilution
16	I.BLK	I.BLK	FC067682.D	08 Nov 2024 23:37		YP/AJ	Ok
17	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067683.D	09 Nov 2024 00:50		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111124AL

Review By	yogesh	Review On	11/11/2024 11:19:51 AM		
Supervise By	Ankita	Supervise On	11/12/2024 10:07:32 AM		
SubDirectory	FC111124AL	HP Acquire Method		HP Processing Method	FC102324AL

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	FC067684.D	11 Nov 2024 07:57		YP/AJ	Ok
2	I.BLK	I.BLK	FC067685.D	11 Nov 2024 08:33		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067686.D	11 Nov 2024 09:10		YP/AJ	Ok
4	P4771-05DL	P-1DL	FC067687.D	11 Nov 2024 09:48		YP/AJ	Ok
5	P4721-01DL	EX-2-TPH-1DL	FC067688.D	11 Nov 2024 10:25	need further dilution	YP/AJ	Dilution
6	P4721-01DL2	EX-2-TPH-1DL2	FC067689.D	11 Nov 2024 11:02		YP/AJ	Ok
7	P4721-02DL	EX-2-TPH-2DL	FC067690.D	11 Nov 2024 11:39	need further dilution	YP/AJ	Dilution
8	P4721-02DL2	EX-2-TPH-2DL2	FC067691.D	11 Nov 2024 12:15		YP/AJ	Ok,M
9	I.BLK	I.BLK	FC067692.D	11 Nov 2024 13:29		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067693.D	11 Nov 2024 14:05		YP/AJ	Ok
11	PB164847BL	PB164847BL	FC067694.D	11 Nov 2024 15:19		YP/AJ	Ok
12	PB164847BS	PB164847BS	FC067695.D	11 Nov 2024 15:56		YP/AJ	Ok
13	PB164847BSD	PB164847BSD	FC067696.D	11 Nov 2024 16:33		YP/AJ	Ok
14	P4718-04	WB-307-SW	FC067697.D	11 Nov 2024 17:10		YP/AJ	Ok
15	P4791-02	HINCHMAN-OILY-WAT	FC067698.D	11 Nov 2024 17:47	need 20x & 100x dilution	YP/AJ	Dilution
16	P4792-04	MANHOLE-WASTE-DR	FC067699.D	11 Nov 2024 18:23	need 20x & 100x dilution	YP/AJ	Dilution
17	I.BLK	I.BLK	FC067700.D	12 Nov 2024 00:32		YP/AJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067701.D	12 Nov 2024 01:09		YP/AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111124AL

Review By	yogesh	Review On	11/11/2024 11:19:51 AM		
Supervise By	Ankita	Supervise On	11/12/2024 10:07:32 AM		
SubDirectory	FC111124AL	HP Acquire Method		HP Processing Method	FC102324AL

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	

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

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	FD048566.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FD048567.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048568.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048569.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048570.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048571.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048572.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048573.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FD048574.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048575.D	23 Oct 2024 20:03		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD110824AR

Review By	yogesh	Review On	11/8/2024 1:24:18 PM		
Supervise By	Ankita	Supervise On	11/11/2024 9:55:33 AM		
SubDirectory	FD110824AR	HP Acquire Method		HP Processing Method	FD102324AR

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	FD048667.D	08 Nov 2024 10:14		YP/AJ	Ok
2	I.BLK	I.BLK	FD048668.D	08 Nov 2024 10:51		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048669.D	08 Nov 2024 11:28		YP/AJ	Ok,M
4	PP23948	PP23948	FD048670.D	08 Nov 2024 12:05		YP/AJ	Ok
5	I.BLK	I.BLK	FD048671.D	08 Nov 2024 12:41		YP/AJ	Ok
6	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048672.D	08 Nov 2024 13:17		YP/AJ	Ok
7	PB164790BL	PB164790BL	FD048673.D	08 Nov 2024 16:19		YP/AJ	Ok
8	PB164790BS	PB164790BS	FD048674.D	08 Nov 2024 16:55		YP/AJ	Ok,M
9	PB164790BSD	PB164790BSD	FD048675.D	08 Nov 2024 17:32		YP/AJ	Ok,M
10	P4718-01	WB-307-SB01	FD048676.D	08 Nov 2024 18:08		YP/AJ	Ok
11	P4718-01D	P4718-01D	FD048677.D	08 Nov 2024 18:45		YP/AJ	Ok
12	P4718-01MS	WB-307-SB01MS	FD048678.D	08 Nov 2024 19:21	FD048676.D	YP/AJ	Ok,M
13	P4718-01MSD	WB-307-SB01MSD	FD048679.D	08 Nov 2024 19:57	FD048676.D!FD048678.D	YP/AJ	Ok,M
14	P4718-02	WB-307-SB02	FD048680.D	08 Nov 2024 20:33		YP/AJ	Ok
15	P4721-01	EX-2-TPH-1	FD048681.D	08 Nov 2024 21:10	need 20x dilution	YP/AJ	Dilution
16	P4721-02	EX-2-TPH-2	FD048682.D	08 Nov 2024 21:46	need 10x dilution	YP/AJ	Dilution
17	P4721-03	EX-2-TPH-3	FD048683.D	08 Nov 2024 22:23	need 5x dilution	YP/AJ	Dilution
18	P4721-04	EX-11-TPH-1	FD048684.D	08 Nov 2024 23:00	need 5x & 20x dilution	YP/AJ	Dilution

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD110824AR

Review By	yogesh	Review On	11/8/2024 1:24:18 PM		
Supervise By	Ankita	Supervise On	11/11/2024 9:55:33 AM		
SubDirectory	FD110824AR	HP Acquire Method		HP Processing Method	FD102324AR

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	I.BLK	I.BLK	FD048685.D	08 Nov 2024 23:37		YP/AJ	Ok
20	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048686.D	09 Nov 2024 00:50		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111124AR

Review By	yogesh	Review On	11/11/2024 11:20:54 AM		
Supervise By	Ankita	Supervise On	11/12/2024 10:07:09 AM		
SubDirectory	FD111124AR	HP Acquire Method		HP Processing Method	FD102324AR

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	FD048687.D	11 Nov 2024 07:57		YP/AJ	Ok
2	I.BLK	I.BLK	FD048688.D	11 Nov 2024 08:33		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048689.D	11 Nov 2024 09:10		YP/AJ	Ok
4	P4721-06	EX-11-TPH-3	FD048690.D	11 Nov 2024 09:48		YP/AJ	Ok
5	P4721-01DL	EX-2-TPH-1DL	FD048691.D	11 Nov 2024 10:25		YP/AJ	Ok,M
6	P4721-02DL	EX-2-TPH-2DL	FD048692.D	11 Nov 2024 11:02		YP/AJ	Ok,M
7	P4721-03DL	EX-2-TPH-3DL	FD048693.D	11 Nov 2024 11:39		YP/AJ	Ok,M
8	P4721-04DL	EX-11-TPH-1DL	FD048694.D	11 Nov 2024 12:15	need further dilution	YP/AJ	Dilution
9	P4721-04DL2	EX-11-TPH-1DL2	FD048695.D	11 Nov 2024 12:52		YP/AJ	Ok,M
10	I.BLK	I.BLK	FD048696.D	11 Nov 2024 14:05		YP/AJ	Ok
11	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048697.D	11 Nov 2024 14:42		YP/AJ	Ok
12	PB164847BL	PB164847BL	FD048698.D	11 Nov 2024 15:19		YP/AJ	Ok
13	PB164847BS	PB164847BS	FD048699.D	11 Nov 2024 15:56		YP/AJ	Ok,M
14	PB164847BSD	PB164847BSD	FD048700.D	11 Nov 2024 16:33		YP/AJ	Ok,M
15	P4718-04	WB-307-SW	FD048701.D	11 Nov 2024 17:10		YP/AJ	Ok
16	P4791-02	HINCHMAN-OILY-WAT	FD048702.D	11 Nov 2024 17:47	need 10x dilution	YP/AJ	Dilution
17	P4792-04	MANHOLE-WASTE-DR	FD048703.D	11 Nov 2024 18:23	need 2x & 20X dilution	YP/AJ	Dilution
18	I.BLK	I.BLK	FD048704.D	12 Nov 2024 00:32		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111124AR

Review By	yogesh	Review On	11/11/2024 11:20:54 AM		
Supervise By	Ankita	Supervise On	11/12/2024 10:07:09 AM		
SubDirectory	FD111124AR	HP Acquire Method		HP Processing Method	FD102324AR

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	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048705.D	12 Nov 2024 01:09		YP/AJ	Ok,M

M : Manual Integration

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EXTRACTION LOGPAGE

PB164790

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/08/2024
Matrix :	Solid			**Extraction Start Time :**	08:47
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/08/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:10
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	100 PPM	PP23916
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23927
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	EP2556
Sand	N/A	E2865
Hexane	N/A	e3825
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:

p4771-05,07 Added in batch at 10:30.

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
11/08/24	RP (Ext. Lab)	Y-P-PSH/HPLC
16:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164790

Analytical Method: MNJDEP-EPH-7

Concentration Date: 11/08/2024

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164790BL	PB164790BL	EPH	30.02	N/A	ritesh	Evelyn	2			U1-1
PB164790BS	PB164790BS	EPH	30.01	N/A	ritesh	Evelyn	2			2
PB164790BSD	PB164790BSD	EPH	30.03	N/A	ritesh	Evelyn	2			3
P4718-01	WB-307-SB01	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
P4718-01DUP	WB-307-SB01DUP	EPH	30.09	N/A	ritesh	Evelyn	2	E		5
P4718-01MS	WB-307-SB01MS	EPH	30.05	N/A	ritesh	Evelyn	2	E		6
P4718-01MSD	WB-307-SB01MSD	EPH	30.03	N/A	ritesh	Evelyn	2	E		U5-1
P4718-02	WB-307-SB02	EPH	30.01	N/A	ritesh	Evelyn	2	E		2
P4721-01	EX-2-TPH-1	EPH	30.10	N/A	ritesh	Evelyn	2	E		3
P4721-02	EX-2-TPH-2	EPH	30.04	N/A	ritesh	Evelyn	2	E		4
P4721-03	EX-2-TPH-3	EPH	30.02	N/A	ritesh	Evelyn	2	E		5
P4721-04	EX-11-TPH-1	EPH	30.09	N/A	ritesh	Evelyn	2	E		6
P4721-05	EX-11-TPH-2	EPH	30.05	N/A	ritesh	Evelyn	2	E		U6-1
P4721-06	EX-11-TPH-3	EPH	30.03	N/A	ritesh	Evelyn	2	E		2
P4721-07	EX-11-TPH-4	EPH	30.08	N/A	ritesh	Evelyn	2	E		3
P4721-08	EX-9-TPH-1	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
P4721-09	EX-9-TPH-2	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
P4721-10	EX-9-TPH-3	EPH	30.03	N/A	ritesh	Evelyn	2	E		6
P4721-11	EX-9-TPH-4	EPH	30.02	N/A	ritesh	Evelyn	2	E		U7-1
P4721-12	EX-9-TPH-5	EPH	30.06	N/A	ritesh	Evelyn	2	E		2
P4721-13	EX-9-TPH-6	EPH	30.02	N/A	ritesh	Evelyn	2	E		3
P4721-14	EX-9-TPH-7	EPH	30.04	N/A	ritesh	Evelyn	2	E		4
P4721-15	EX-9-TPH-8	EPH	30.08	N/A	ritesh	Evelyn	2	E		5
P4771-05	P-1	EPH	30.03	N/A	ritesh	Evelyn	2	E		6
P4771-07	P-2	EPH	30.09	N/A	ritesh	Evelyn	2	E		U1-1

* **Extracts relinquished on the same date as received.**

11/8/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4718 **WorkList ID :** 185238 **Department :** Extraction **Date :** 11-08-2024 08:10:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-01	WB-307-SB01	Solid	EPH	Cool 4 deg C	PORT06	L21	11/04/2024	NJEPH
P4718-02	WB-307-SB02	Solid	EPH	Cool 4 deg C	PORT06	L21	11/04/2024	NJEPH
P4721-01	EX-2-TPH-1	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-02	EX-2-TPH-2	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-03	EX-2-TPH-3	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-04	EX-11-TPH-1	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-05	EX-11-TPH-2	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-06	EX-11-TPH-3	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-07	EX-11-TPH-4	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-08	EX-9-TPH-1	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-09	EX-9-TPH-2	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-10	EX-9-TPH-3	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-11	EX-9-TPH-4	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-12	EX-9-TPH-5	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-13	EX-9-TPH-6	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-14	EX-9-TPH-7	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH
P4721-15	EX-9-TPH-8	Solid	EPH	Cool 4 deg C	ENTA05	L23	11/05/2024	NJEPH

Date/Time 11/8/24 8:15

Raw Sample Received by: RJ (Ext Lab)

Raw Sample Relinquished by: JDCSM

Date/Time 11/8/24

Raw Sample Received by: JDCSM

Raw Sample Relinquished by: RJ (Ext Lab)

1121 of 1396

P4718

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4771 **WorkList ID :** 185255 **Department :** Extraction **Date :** 11-08-2024 10:30:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4771-05	P-1	Solid	EPH	Cool 4 deg C	M2AS01	L32	11/07/2024	NJEPH
P4771-05	P-1	Solid	PCB	Cool 4 deg C	M2AS01	L32	11/07/2024	8082A
P4771-05	P-1	Solid	Pesticide-TCL	Cool 4 deg C	M2AS01	L32	11/07/2024	8081B
P4771-05	P-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	M2AS01	L32	11/07/2024	8270E
P4771-07	P-2	Solid	EPH	Cool 4 deg C	M2AS01	L32	11/07/2024	NJEPH
P4771-07	P-2	Solid	PCB	Cool 4 deg C	M2AS01	L32	11/07/2024	8082A
P4771-07	P-2	Solid	Pesticide-TCL	Cool 4 deg C	M2AS01	L32	11/07/2024	8081B
P4771-07	P-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	M2AS01	L32	11/07/2024	8270E

Date/Time 11/8/24 10:30
Raw Sample Received by: RJ (Eurofins)
Raw Sample Relinquished by: JDCSM

Date/Time 11/8/24 11:00
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: RJ (Eurofins)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164847

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/09/2024
Matrix :	Water			**Extraction Start Time :**	08:38
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	11/09/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	16:10
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP23916
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23927
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3828
Baked Na2SO4	N/A	EP2546
Hexane	N/A	E3826
6N HCL	N/A	EP2517
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:	WATER BATH-1,2	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/11/24	RP (Extr Lab)	R. Patel/PCB Lab
9:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164847

12

Analytical Method: MNJDEP-EPH-7

Concentration Date: 11/09/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164847BL	PB164847BL	EPH	1000	<2	RUPESH	ritesh	2			
PB164847BS	PB164847BS	EPH	1000	<2	RUPESH	ritesh	2			
PB164847BSD	PB164847BSD	EPH	1000	<2	RUPESH	ritesh	2			
P4718-04	WB-307-SW	EPH	970	<2	RUPESH	ritesh	2	G		
P4791-02	HINCHMAN-OILY-WATER	EPH	1000	<2	RUPESH	ritesh	2	T		
P4792-04	MANHOLE-WASTE-DRUMS	EPH	1000	<2	RUPESH	ritesh	2	R		

* Extracts relinquished on the same date as received.

11/9/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4791 **WorkList ID :** 185306 **Department :** Extraction **Date :** 11-09-2024 08:24:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4718-04	WB-307-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	L21	11/04/2024	NJEPH
P4791-02	HINCHMAN-OILY-WATER	Water	EPH	1:1 HCl to pH < 2	PSEG03	L23	11/08/2024	NJEPH
P4792-04	MANHOLE-WASTE-DRUMS	Water	EPH	1:1 HCl to pH < 2	PSEG03	L21	11/08/2024	NJEPH

Date/Time 11/10/24 8:35
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: RS (Ext-Lab)

Date/Time 11/10/24 9:05
Raw Sample Received by: RS (Ext-Lab)
Raw Sample Relinquished by: RJ (Ext. Lab)

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/08/24	11/08/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/08/24	11/08/24	
P4718-04	**WB-307-SW**	**WATER**			**11/04/24**			**11/05/24**
			PCB	8082A		11/06/24	11/06/24	
			EPH	NJEPH		11/09/24	11/11/24	

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Hit Summary Sheet
SW-846

SDG No.: P4718 **Order ID:** P4718

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-307-SB01								
P4718-01	WB-307-SB01	SOIL	Aluminum	4030		2.69	5.57	mg/Kg
P4718-01	WB-307-SB01	SOIL	Arsenic	1.77		0.32	1.11	mg/Kg
P4718-01	WB-307-SB01	SOIL	Barium	54.2		0.71	5.57	mg/Kg
P4718-01	WB-307-SB01	SOIL	Beryllium	0.40		0.013	0.33	mg/Kg
P4718-01	WB-307-SB01	SOIL	Cadmium	1.18		0.018	0.33	mg/Kg
P4718-01	WB-307-SB01	SOIL	Calcium	10400		3.12	111	mg/Kg
P4718-01	WB-307-SB01	SOIL	Chromium	15.5		0.060	0.56	mg/Kg
P4718-01	WB-307-SB01	SOIL	Cobalt	4.91		0.065	1.67	mg/Kg
P4718-01	WB-307-SB01	SOIL	Copper	14.4		0.52	1.11	mg/Kg
P4718-01	WB-307-SB01	SOIL	Iron	9340		3.00	5.57	mg/Kg
P4718-01	WB-307-SB01	SOIL	Lead	9.59		0.17	0.67	mg/Kg
P4718-01	WB-307-SB01	SOIL	Magnesium	2140		3.82	111	mg/Kg
P4718-01	WB-307-SB01	SOIL	Manganese	239		0.079	1.11	mg/Kg
P4718-01	WB-307-SB01	SOIL	Mercury	0.0080	J	0.0070	0.015	mg/Kg
P4718-01	WB-307-SB01	SOIL	Nickel	11.1		0.10	2.23	mg/Kg
P4718-01	WB-307-SB01	SOIL	Potassium	801		32.0	111	mg/Kg
P4718-01	WB-307-SB01	SOIL	Silver	0.23	J	0.058	0.56	mg/Kg
P4718-01	WB-307-SB01	SOIL	Sodium	1200		40.2	111	mg/Kg
P4718-01	WB-307-SB01	SOIL	Vanadium	18.4		0.30	2.23	mg/Kg
P4718-01	WB-307-SB01	SOIL	Zinc	31.1		0.12	2.23	mg/Kg
Client ID : WB-307-SB02								
P4718-02	WB-307-SB02	SOIL	Aluminum	1990		2.55	5.28	mg/Kg
P4718-02	WB-307-SB02	SOIL	Arsenic	1.00	J	0.31	1.06	mg/Kg
P4718-02	WB-307-SB02	SOIL	Barium	11.7		0.68	5.28	mg/Kg
P4718-02	WB-307-SB02	SOIL	Beryllium	0.21	J	0.013	0.32	mg/Kg
P4718-02	WB-307-SB02	SOIL	Cadmium	0.62		0.017	0.32	mg/Kg
P4718-02	WB-307-SB02	SOIL	Calcium	3290		2.96	106	mg/Kg
P4718-02	WB-307-SB02	SOIL	Chromium	5.65		0.057	0.53	mg/Kg
P4718-02	WB-307-SB02	SOIL	Cobalt	2.57		0.061	1.58	mg/Kg
P4718-02	WB-307-SB02	SOIL	Copper	4.19		0.50	1.06	mg/Kg
P4718-02	WB-307-SB02	SOIL	Iron	6880		2.84	5.28	mg/Kg
P4718-02	WB-307-SB02	SOIL	Lead	3.08		0.16	0.63	mg/Kg
P4718-02	WB-307-SB02	SOIL	Magnesium	1440		3.62	106	mg/Kg
P4718-02	WB-307-SB02	SOIL	Manganese	81.0		0.075	1.06	mg/Kg
P4718-02	WB-307-SB02	SOIL	Mercury	0.018		0.0070	0.016	mg/Kg
P4718-02	WB-307-SB02	SOIL	Nickel	5.02		0.095	2.11	mg/Kg
P4718-02	WB-307-SB02	SOIL	Potassium	466		30.3	106	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4718 **Order ID:** P4718

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4718-02	WB-307-SB02	SOIL	Silver	0.15	J	0.055	0.53	mg/Kg
P4718-02	WB-307-SB02	SOIL	Sodium	1250		38.1	106	mg/Kg
P4718-02	WB-307-SB02	SOIL	Vanadium	8.23		0.28	2.11	mg/Kg
P4718-02	WB-307-SB02	SOIL	Zinc	11.9		0.12	2.11	mg/Kg
Client ID : WB-307-SW								
P4718-04	WB-307-SW	Water	Aluminum	389		28.3	50.0	ug/L
P4718-04	WB-307-SW	Water	Barium	34.4	J	6.28	50.0	ug/L
P4718-04	WB-307-SW	Water	Cadmium	0.19	J	0.094	3.00	ug/L
P4718-04	WB-307-SW	Water	Calcium	206000		33.0	1000	ug/L
P4718-04	WB-307-SW	Water	Chromium	1.78	J	0.66	5.00	ug/L
P4718-04	WB-307-SW	Water	Iron	521		18.5	50.0	ug/L
P4718-04	WB-307-SW	Water	Magnesium	628000		39.4	1000	ug/L
P4718-04	WB-307-SW	Water	Manganese	69.7		1.46	10.0	ug/L
P4718-04	WB-307-SW	Water	Potassium	425000		685	1000	ug/L
P4718-04	WB-307-SW	Water	Sodium	5110000	D	2370	10000	ug/L
P4718-04	WB-307-SW	Water	Vanadium	3.65	J	3.06	20.0	ug/L
P4718-04	WB-307-SW	Water	Zinc	19.8	J	1.75	20.0	ug/L

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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	78

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4030		1	2.69	5.57	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-36-0	Antimony	0.17	U	1	0.17	2.79	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-38-2	Arsenic	1.77		1	0.32	1.11	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-39-3	Barium	54.2		1	0.71	5.57	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-41-7	Beryllium	0.40		1	0.013	0.33	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-43-9	Cadmium	1.18		1	0.018	0.33	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-70-2	Calcium	10400		1	3.12	111	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-47-3	Chromium	15.5		1	0.060	0.56	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-48-4	Cobalt	4.91		1	0.065	1.67	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-50-8	Copper	14.4		1	0.52	1.11	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7439-89-6	Iron	9340		1	3.00	5.57	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7439-92-1	Lead	9.59		1	0.17	0.67	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7439-95-4	Magnesium	2140		1	3.82	111	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7439-96-5	Manganese	239		1	0.079	1.11	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7439-97-6	Mercury	0.0080	J	1	0.0070	0.015	mg/Kg	11/07/24 10:15	11/07/24 15:22	SW7471B	
7440-02-0	Nickel	11.1		1	0.10	2.23	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-09-7	Potassium	801	N	1	32.0	111	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7782-49-2	Selenium	0.37	U	1	0.37	1.11	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-22-4	Silver	0.23	J	1	0.058	0.56	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-23-5	Sodium	1200	N	1	40.2	111	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-28-0	Thallium	0.49	U	1	0.49	2.23	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-62-2	Vanadium	18.4		1	0.30	2.23	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050
7440-66-6	Zinc	31.1		1	0.12	2.23	mg/Kg	11/06/24 10:00	11/07/24 23:26	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	77.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1990		1	2.55	5.28	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-36-0	Antimony	0.16	U	1	0.16	2.64	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-38-2	Arsenic	1.00	J	1	0.31	1.06	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-39-3	Barium	11.7		1	0.68	5.28	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-41-7	Beryllium	0.21	J	1	0.013	0.32	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-43-9	Cadmium	0.62		1	0.017	0.32	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-70-2	Calcium	3290		1	2.96	106	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-47-3	Chromium	5.65		1	0.057	0.53	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-48-4	Cobalt	2.57		1	0.061	1.58	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-50-8	Copper	4.19		1	0.50	1.06	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7439-89-6	Iron	6880		1	2.84	5.28	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7439-92-1	Lead	3.08		1	0.16	0.63	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7439-95-4	Magnesium	1440		1	3.62	106	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7439-96-5	Manganese	81.0		1	0.075	1.06	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7439-97-6	Mercury	0.018		1	0.0070	0.016	mg/Kg	11/07/24 10:15	11/07/24 15:24	SW7471B	
7440-02-0	Nickel	5.02		1	0.095	2.11	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-09-7	Potassium	466	N	1	30.3	106	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7782-49-2	Selenium	0.35	U	1	0.35	1.06	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-22-4	Silver	0.15	J	1	0.055	0.53	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-23-5	Sodium	1250	N	1	38.1	106	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-28-0	Thallium	0.47	U	1	0.47	2.11	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-62-2	Vanadium	8.23		1	0.28	2.11	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050
7440-66-6	Zinc	11.9		1	0.12	2.11	mg/Kg	11/06/24 10:00	11/07/24 23:30	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	N/A
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:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	389	N	1	28.3	50.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-36-0	Antimony	2.06	UN	1	2.06	25.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-38-2	Arsenic	3.48	UN	1	3.48	10.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-39-3	Barium	34.4	J	1	6.28	50.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-43-9	Cadmium	0.19	J	1	0.094	3.00	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-70-2	Calcium	206000		1	33.0	1000	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-47-3	Chromium	1.78	J	1	0.66	5.00	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7439-89-6	Iron	521		1	18.5	50.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7439-95-4	Magnesium	628000		1	39.4	1000	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7439-96-5	Manganese	69.7		1	1.46	10.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	11/11/24 10:15	11/11/24 14:24	SW7470A	
7440-02-0	Nickel	0.85	U	1	0.85	20.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-09-7	Potassium	425000		1	685	1000	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7782-49-2	Selenium	5.88	UN	1	5.88	10.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-23-5	Sodium	5110000	D	10	2370	10000	ug/L	11/07/24 12:30	11/08/24 21:18	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-62-2	Vanadium	3.65	J	1	3.06	20.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010
7440-66-6	Zinc	19.8	JN	1	1.75	20.0	ug/L	11/07/24 12:30	11/08/24 19:42	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB74	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2024	14:43	LB133334

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB47	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2024	14:48	LB133334
CCB48	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2024	15:15	LB133334
CCB49	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2024	15:43	LB133334
CCB50	Mercury	0.20	+/-0.20	U	0.20	CV	11/07/2024	16:10	LB133334

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB80	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:01	LB133392

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB64	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:05	LB133392
CCB65	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:41	LB133392
CCB66	Mercury	0.20	+/-0.20	U	0.20	CV	11/11/2024	14:57	LB133392

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	14:38	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	14:38	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	14:38	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	14:38	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	14:38	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	14:38	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	14:38	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	14:38	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	14:38	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	14:38	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	14:38	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	14:38	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	14:38	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	15:05	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	15:05	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	15:05	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:05	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:05	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	15:05	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	15:05	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	15:05	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	15:05	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	15:05	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	15:05	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	15:05	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	15:05	LB133344
CCB02	Aluminum	100	+/-100	U	100	P	11/07/2024	15:58	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	15:58	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	15:58	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:58	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	15:58	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	15:58	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	15:58	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	15:58	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	15:58	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	15:58	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	15:58	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	15:58	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	15:58	LB133344
CCB03	Aluminum	100	+/-100	U	100	P	11/07/2024	16:49	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	16:49	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	16:49	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	16:49	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	16:49	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	16:49	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	16:49	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	16:49	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	16:49	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	16:49	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	16:49	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	16:49	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	16:49	LB133344
CCB04	Aluminum	100	+/-100	U	100	P	11/07/2024	18:04	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	18:04	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	18:04	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:04	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:04	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	18:04	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	18:04	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	18:04	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	18:04	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	18:04	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	18:04	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	18:04	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	18:04	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	18:04	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	18:04	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	18:04	LB133344
CCB05	Aluminum	100	+/-100	U	100	P	11/07/2024	18:37	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	18:37	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	18:37	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:37	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	18:37	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	18:37	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	18:37	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	18:37	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	18:37	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	18:37	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	18:37	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	18:37	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	18:37	LB133344
CCB06	Aluminum	100	+/-100	U	100	P	11/07/2024	19:12	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	19:12	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	19:12	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	19:12	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	19:12	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	19:12	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	19:12	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	19:12	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	19:12	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	19:12	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	19:12	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	19:12	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	19:12	LB133344
CCB07	Aluminum	100	+/-100	U	100	P	11/07/2024	20:02	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	20:02	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	20:02	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	20:02	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	20:02	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	20:02	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	20:02	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	20:02	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	20:02	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	20:02	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	20:02	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	20:02	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	20:02	LB133344
CCB08	Aluminum	100	+/-100	U	100	P	11/07/2024	21:02	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	21:02	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	21:02	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	21:02	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:02	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:02	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	21:02	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	21:02	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	21:02	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	21:02	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	21:02	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	21:02	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	21:02	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	21:02	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	21:02	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	21:02	LB133344
CCB09	Aluminum	100	+/-100	U	100	P	11/07/2024	21:55	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	21:55	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	21:55	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:55	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	21:55	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	21:55	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	21:55	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	21:55	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	21:55	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	21:55	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	21:55	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	21:55	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	21:55	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	21:55	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	21:55	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	21:55	LB133344
CCB10	Aluminum	100	+/-100	U	100	P	11/07/2024	22:56	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	22:56	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	22:56	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	22:56	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	22:56	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	22:56	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	22:56	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	22:56	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	22:56	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	22:56	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	22:56	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	22:56	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	22:56	LB133344
CCB11	Aluminum	100	+/-100	U	100	P	11/07/2024	23:47	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/07/2024	23:47	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344
	Barium	100	+/-100	U	100	P	11/07/2024	23:47	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/07/2024	23:47	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/07/2024	23:47	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/07/2024	23:47	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/07/2024	23:47	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344
	Iron	100	+/-100	U	100	P	11/07/2024	23:47	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/07/2024	23:47	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/07/2024	23:47	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/07/2024	23:47	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/07/2024	23:47	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/07/2024	23:47	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/07/2024	23:47	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/07/2024	23:47	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/07/2024	23:47	LB133344
CCB12	Aluminum	100	+/-100	U	100	P	11/08/2024	00:43	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	00:43	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Barium	100	+/-100	U	100	P	11/08/2024	00:43	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	00:43	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	00:43	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	00:43	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	00:43	LB133344
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Iron	100	+/-100	U	100	P	11/08/2024	00:43	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	00:43	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	00:43	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	00:43	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	00:43	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	00:43	LB133344
CCB13	Aluminum	100	+/-100	U	100	P	11/08/2024	01:01	LB133344
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	01:01	LB133344
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	01:01	LB133344
	Barium	100	+/-100	U	100	P	11/08/2024	01:01	LB133344
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	01:01	LB133344
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	01:01	LB133344
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	01:01	LB133344
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	01:01	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	01:01	LB133344
	Iron	100	+/-100	U	100	P	11/08/2024	01:01	LB133344
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	01:01	LB133344
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	01:01	LB133344
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	01:01	LB133344
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	01:01	LB133344
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	01:01	LB133344
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	01:01	LB133344

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	14:16	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	14:16	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	14:16	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:16	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	14:16	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	14:16	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	14:50	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	14:50	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	14:50	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:50	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	14:50	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	14:50	LB133365
CCB02	Aluminum	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	15:33	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	15:33	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	15:33	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	15:33	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	15:33	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	15:33	LB133365
CCB03	Aluminum	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	16:28	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	16:28	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	16:28	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	16:28	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	16:28	LB133365
CCB04	Aluminum	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	17:22	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	17:22	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	17:22	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	17:22	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	17:22	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	17:22	LB133365
CCB05	Aluminum	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	18:08	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	18:08	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:08	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	18:08	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	18:08	LB133365
CCB06	Aluminum	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	18:59	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	18:59	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	18:59	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:59	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	18:59	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	18:59	LB133365
CCB07	Aluminum	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	19:51	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	19:51	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	19:51	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	19:51	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Sodium	941	+/-2000	J	2000	P	11/08/2024	19:51	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	19:51	LB133365
CCB08	Aluminum	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	20:57	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	20:57	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	20:57	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	20:57	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	20:57	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Sodium	720	+/-2000	J	2000	P	11/08/2024	20:57	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	20:57	LB133365
CCB09	Aluminum	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	21:55	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	21:55	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	21:55	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Sodium	2000	+/-2000	U	2000	P	11/08/2024	21:55	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/08/2024	21:55	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	21:55	LB133365
CCB10	Aluminum	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Antimony	50.0	+/-50.0	U	50.0	P	11/08/2024	23:35	LB133365
	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Beryllium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Calcium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Cobalt	30.0	+/-30.0	U	30.0	P	11/08/2024	23:35	LB133365
	Copper	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Iron	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	23:35	LB133365
	Magnesium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Manganese	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Nickel	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Potassium	2000	+/-2000	U	2000	P	11/08/2024	23:35	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Sodium	742	+/-2000	J	2000	P	11/08/2024	23:35	LB133365
	Thallium	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Vanadium	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365
	Zinc	40.0	+/-40.0	U	40.0	P	11/08/2024	23:35	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/19/2024	11:38	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	11:38	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	11:38	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	11:38	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	11:38	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	11:38	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	11:38	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	11:38	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	11:38	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	11:38	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	11:38	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	11:38	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	11:38	LB133524

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/19/2024	12:48	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	12:48	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	12:48	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	12:48	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	12:48	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	12:48	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	12:48	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	12:48	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	12:48	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	12:48	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	12:48	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	12:48	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	12:48	LB133524
CCB02	Aluminum	100	+/-100	U	100	P	11/19/2024	13:38	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	13:38	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	13:38	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	13:38	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	13:38	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	13:38	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	13:38	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	13:38	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	13:38	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	13:38	LB133524

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/19/2024	13:38	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	13:38	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	13:38	LB133524
CCB03	Aluminum	100	+/-100	U	100	P	11/19/2024	14:28	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	14:28	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	14:28	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	14:28	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	14:28	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	14:28	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	14:28	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	14:28	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	14:28	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	14:28	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	14:28	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	14:28	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	14:28	LB133524
CCB04	Aluminum	100	+/-100	U	100	P	11/19/2024	15:36	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	15:36	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	15:36	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	15:36	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	15:36	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	15:36	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	15:36	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	15:36	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	15:36	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	15:36	LB133524

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/19/2024	15:36	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	15:36	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	15:36	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	15:36	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	15:36	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	15:36	LB133524
CCB05	Aluminum	100	+/-100	U	100	P	11/19/2024	16:22	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	16:22	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Barium	100	+/-100	U	100	P	11/19/2024	16:22	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	16:22	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	16:22	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	16:22	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	16:22	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	16:22	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	16:22	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Manganese	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	16:22	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	16:22	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	16:22	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	16:22	LB133524
CCB06	Aluminum	100	+/-100	U	100	P	11/19/2024	17:24	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	17:24	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	17:24	LB133524
	Barium	22.0	+/-100	J	100	P	11/19/2024	17:24	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	17:24	LB133524
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	17:24	LB133524
	Calcium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	11/19/2024	17:24	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	17:24	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	17:24	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	17:24	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	17:24	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524
	Manganese	6.51	+/-20.0	J	20.0	P	11/19/2024	17:24	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	17:24	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	17:24	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	17:24	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
	Vanadium	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	17:24	LB133524
CCB07	Aluminum	100	+/-100	U	100	P	11/19/2024	18:05	LB133524
	Antimony	50.0	+/-50.0	U	50.0	P	11/19/2024	18:05	LB133524
	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	18:05	LB133524
	Barium	25.8	+/-100	J	100	P	11/19/2024	18:05	LB133524
	Beryllium	6.00	+/-6.00	U	6.00	P	11/19/2024	18:05	LB133524
	Cadmium	0.62	+/-6.00	J	6.00	P	11/19/2024	18:05	LB133524
	Calcium	81.8	+/-2000	J	2000	P	11/19/2024	18:05	LB133524
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	18:05	LB133524
	Cobalt	30.0	+/-30.0	U	30.0	P	11/19/2024	18:05	LB133524
	Copper	20.0	+/-20.0	U	20.0	P	11/19/2024	18:05	LB133524
	Iron	100	+/-100	U	100	P	11/19/2024	18:05	LB133524
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	18:05	LB133524
	Magnesium	2000	+/-2000	U	2000	P	11/19/2024	18:05	LB133524
	Manganese	7.68	+/-20.0	J	20.0	P	11/19/2024	18:05	LB133524
	Nickel	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524
	Potassium	2000	+/-2000	U	2000	P	11/19/2024	18:05	LB133524
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	18:05	LB133524
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	18:05	LB133524
	Sodium	2000	+/-2000	U	2000	P	11/19/2024	18:05	LB133524
	Thallium	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524
	Vanadium	6.34	+/-40.0	J	40.0	P	11/19/2024	18:05	LB133524
	Zinc	40.0	+/-40.0	U	40.0	P	11/19/2024	18:05	LB133524

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164762BL		**SOLID**		**Batch Number:**	**PB164762**		**Prep Date:**	**11/07/2024**	
	Mercury	0.013	<0.013	U	0.013	CV	11/07/2024	14:57	LB133334

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164872BL		**WATER**		**Batch Number:**	**PB164872**		**Prep Date:**	**11/11/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/11/2024	14:20	LB133392

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB164708BL		**SOLID**		**Batch Number:**	**PB164708**		**Prep Date:**	**11/06/2024**	
	Aluminum	4.39	<4.39	U	4.39	P	11/07/2024	23:38	LB133344
	Antimony	2.19	<2.19	U	2.19	P	11/07/2024	23:38	LB133344
	Arsenic	0.88	<0.88	U	0.88	P	11/07/2024	23:38	LB133344
	Barium	4.39	<4.39	U	4.39	P	11/07/2024	23:38	LB133344
	Beryllium	0.26	<0.26	U	0.26	P	11/07/2024	23:38	LB133344
	Cadmium	0.26	<0.26	U	0.26	P	11/07/2024	23:38	LB133344
	Calcium	87.7	<87.7	U	87.7	P	11/07/2024	23:38	LB133344
	Chromium	0.44	<0.44	U	0.44	P	11/07/2024	23:38	LB133344
	Cobalt	1.32	<1.32	U	1.32	P	11/07/2024	23:38	LB133344
	Copper	0.88	<0.88	U	0.88	P	11/07/2024	23:38	LB133344
	Iron	4.39	<4.39	U	4.39	P	11/07/2024	23:38	LB133344
	Lead	0.53	<0.53	U	0.53	P	11/07/2024	23:38	LB133344
	Magnesium	87.7	<87.7	U	87.7	P	11/07/2024	23:38	LB133344
	Manganese	0.88	<0.88	U	0.88	P	11/07/2024	23:38	LB133344
	Nickel	1.75	<1.75	U	1.75	P	11/07/2024	23:38	LB133344
	Potassium	87.7	<87.7	U	87.7	P	11/07/2024	23:38	LB133344
	Selenium	0.88	<0.88	U	0.88	P	11/07/2024	23:38	LB133344
	Silver	0.44	<0.44	U	0.44	P	11/07/2024	23:38	LB133344
	Sodium	87.7	<87.7	U	87.7	P	11/07/2024	23:38	LB133344
	Thallium	1.75	<1.75	U	1.75	P	11/07/2024	23:38	LB133344
	Vanadium	1.75	<1.75	U	1.75	P	11/07/2024	23:38	LB133344
	Zinc	1.75	<1.75	U	1.75	P	11/07/2024	23:38	LB133344

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164759BL		**WATER**		**Batch Number:**	**PB164759**		**Prep Date:**	**11/07/2024**	
	Aluminum	50.0	<50.0	U	50.0	P	11/19/2024	13:00	LB133524
	Antimony	25.0	<25.0	U	25.0	P	11/19/2024	13:00	LB133524
	Arsenic	10.0	<10.0	U	10.0	P	11/19/2024	13:00	LB133524
	Barium	50.0	<50.0	U	50.0	P	11/19/2024	13:00	LB133524
	Beryllium	3.00	<3.00	U	3.00	P	11/19/2024	13:00	LB133524
	Cadmium	3.00	<3.00	U	3.00	P	11/19/2024	13:00	LB133524
	Calcium	1000	<1000	U	1000	P	11/19/2024	13:00	LB133524
	Chromium	5.00	<5.00	U	5.00	P	11/19/2024	13:00	LB133524
	Cobalt	15.0	<15.0	U	15.0	P	11/19/2024	13:00	LB133524
	Copper	10.0	<10.0	U	10.0	P	11/19/2024	13:00	LB133524
	Iron	50.0	<50.0	U	50.0	P	11/19/2024	13:00	LB133524
	Lead	6.00	<6.00	U	6.00	P	11/19/2024	13:00	LB133524
	Magnesium	1000	<1000	U	1000	P	11/19/2024	13:00	LB133524
	Manganese	10.0	<10.0	U	10.0	P	11/19/2024	13:00	LB133524
	Nickel	20.0	<20.0	U	20.0	P	11/19/2024	13:00	LB133524

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Instrument: P4

Potassium	1000	<1000	U	1000	P	11/19/2024	13:00	LB133524
Selenium	10.0	<10.0	U	10.0	P	11/19/2024	13:00	LB133524
Silver	5.00	<5.00	U	5.00	P	11/19/2024	13:00	LB133524
Sodium	1000	<1000	U	1000	P	11/19/2024	13:00	LB133524
Thallium	20.0	<20.0	U	20.0	P	11/19/2024	13:00	LB133524
Vanadium	20.0	<20.0	U	20.0	P	11/19/2024	13:00	LB133524
Zinc	20.0	<20.0	U	20.0	P	11/19/2024	13:00	LB133524

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
ICV74	Mercury	3.93	4.0	98	90 - 110	CV	11/07/2024	14:41	LB133334

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
CCV47	Mercury	4.81	5.0	96	90 - 110	CV	11/07/2024	14:45	LB133334
CCV48	Mercury	4.90	5.0	98	90 - 110	CV	11/07/2024	15:13	LB133334
CCV49	Mercury	4.92	5.0	98	90 - 110	CV	11/07/2024	15:40	LB133334
CCV50	Mercury	4.92	5.0	98	90 - 110	CV	11/07/2024	16:08	LB133334

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
ICV80	Mercury	4.09	4.0	102	90 - 110	CV	11/11/2024	13:58	LB133392

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
CCV64	Mercury	5.16	5.0	103	90 - 110	CV	11/11/2024	14:03	LB133392
CCV65	Mercury	4.85	5.0	97	90 - 110	CV	11/11/2024	14:36	LB133392
CCV66	Mercury	4.93	5.0	99	90 - 110	CV	11/11/2024	14:54	LB133392

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	2590	2500	104	90 - 110	P	11/07/2024	13:49	LB133344
	Antimony	1010	1000	101	90 - 110	P	11/07/2024	13:49	LB133344
	Arsenic	1030	1000	103	90 - 110	P	11/07/2024	13:49	LB133344
	Barium	521	520	100	90 - 110	P	11/07/2024	13:49	LB133344
	Beryllium	515	510	101	90 - 110	P	11/07/2024	13:49	LB133344
	Cadmium	509	510	100	90 - 110	P	11/07/2024	13:49	LB133344
	Calcium	10200	10000	102	90 - 110	P	11/07/2024	13:49	LB133344
	Chromium	531	520	102	90 - 110	P	11/07/2024	13:49	LB133344
	Cobalt	516	520	99	90 - 110	P	11/07/2024	13:49	LB133344
	Copper	531	510	104	90 - 110	P	11/07/2024	13:49	LB133344
	Iron	9990	10000	100	90 - 110	P	11/07/2024	13:49	LB133344
	Lead	1020	1000	102	90 - 110	P	11/07/2024	13:49	LB133344
	Magnesium	6010	6000	100	90 - 110	P	11/07/2024	13:49	LB133344
	Manganese	526	520	101	90 - 110	P	11/07/2024	13:49	LB133344
	Nickel	518	530	98	90 - 110	P	11/07/2024	13:49	LB133344
	Potassium	9890	9900	100	90 - 110	P	11/07/2024	13:49	LB133344
	Selenium	1040	1000	104	90 - 110	P	11/07/2024	13:49	LB133344
	Silver	256	250	102	90 - 110	P	11/07/2024	13:49	LB133344
	Sodium	9440	10000	94	90 - 110	P	11/07/2024	13:49	LB133344
	Thallium	1100	1000	110	90 - 110	P	11/07/2024	13:49	LB133344
	Vanadium	507	500	101	90 - 110	P	11/07/2024	13:49	LB133344
	Zinc	1050	1000	105	90 - 110	P	11/07/2024	13:49	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	11/07/2024	14:23	LB133344
	Antimony	50.8	50.0	102	80 - 120	P	11/07/2024	14:23	LB133344
	Arsenic	18.0	20.0	90	80 - 120	P	11/07/2024	14:23	LB133344
	Barium	100	100	100	80 - 120	P	11/07/2024	14:23	LB133344
	Beryllium	5.93	6.0	99	80 - 120	P	11/07/2024	14:23	LB133344
	Cadmium	6.52	6.0	109	80 - 120	P	11/07/2024	14:23	LB133344
	Calcium	2010	2000	100	80 - 120	P	11/07/2024	14:23	LB133344
	Chromium	9.52	10.0	95	80 - 120	P	11/07/2024	14:23	LB133344
	Cobalt	29.4	30.0	98	80 - 120	P	11/07/2024	14:23	LB133344
	Copper	22.7	20.0	114	80 - 120	P	11/07/2024	14:23	LB133344
	Iron	96.8	100	97	80 - 120	P	11/07/2024	14:23	LB133344
	Lead	11.4	12.0	95	80 - 120	P	11/07/2024	14:23	LB133344
	Magnesium	2020	2000	101	80 - 120	P	11/07/2024	14:23	LB133344
	Manganese	20.2	20.0	101	80 - 120	P	11/07/2024	14:23	LB133344
	Nickel	38.5	40.0	96	80 - 120	P	11/07/2024	14:23	LB133344
	Potassium	2010	2000	101	80 - 120	P	11/07/2024	14:23	LB133344
	Selenium	20.8	20.0	104	80 - 120	P	11/07/2024	14:23	LB133344
	Silver	10.8	10.0	108	80 - 120	P	11/07/2024	14:23	LB133344
	Sodium	1680	2000	84	80 - 120	P	11/07/2024	14:23	LB133344
	Thallium	43.4	40.0	108	80 - 120	P	11/07/2024	14:23	LB133344
	Vanadium	40.8	40.0	102	80 - 120	P	11/07/2024	14:23	LB133344
	Zinc	42.0	40.0	105	80 - 120	P	11/07/2024	14:23	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	10000	10000	100	90 - 110	P	11/07/2024	15:01	LB133344
	Antimony	5120	5000	102	90 - 110	P	11/07/2024	15:01	LB133344
	Arsenic	5040	5000	101	90 - 110	P	11/07/2024	15:01	LB133344
	Barium	9710	10000	97	90 - 110	P	11/07/2024	15:01	LB133344
	Beryllium	239	250	96	90 - 110	P	11/07/2024	15:01	LB133344
	Cadmium	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Calcium	24000	25000	96	90 - 110	P	11/07/2024	15:01	LB133344
	Chromium	992	1000	99	90 - 110	P	11/07/2024	15:01	LB133344
	Cobalt	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Copper	1270	1250	102	90 - 110	P	11/07/2024	15:01	LB133344
	Iron	4870	5000	97	90 - 110	P	11/07/2024	15:01	LB133344
	Lead	4920	5000	98	90 - 110	P	11/07/2024	15:01	LB133344
	Magnesium	24000	25000	96	90 - 110	P	11/07/2024	15:01	LB133344
	Manganese	2370	2500	95	90 - 110	P	11/07/2024	15:01	LB133344
	Nickel	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Potassium	25100	25000	100	90 - 110	P	11/07/2024	15:01	LB133344
	Selenium	5150	5000	103	90 - 110	P	11/07/2024	15:01	LB133344
	Silver	1240	1250	99	90 - 110	P	11/07/2024	15:01	LB133344
	Sodium	25300	25000	101	90 - 110	P	11/07/2024	15:01	LB133344
	Thallium	5140	5000	103	90 - 110	P	11/07/2024	15:01	LB133344
	Vanadium	2450	2500	98	90 - 110	P	11/07/2024	15:01	LB133344
	Zinc	2530	2500	101	90 - 110	P	11/07/2024	15:01	LB133344
CCV02	Aluminum	9620	10000	96	90 - 110	P	11/07/2024	15:53	LB133344
	Antimony	5030	5000	101	90 - 110	P	11/07/2024	15:53	LB133344
	Arsenic	4950	5000	99	90 - 110	P	11/07/2024	15:53	LB133344
	Barium	9390	10000	94	90 - 110	P	11/07/2024	15:53	LB133344
	Beryllium	231	250	92	90 - 110	P	11/07/2024	15:53	LB133344
	Cadmium	2390	2500	96	90 - 110	P	11/07/2024	15:53	LB133344
	Calcium	23100	25000	92	90 - 110	P	11/07/2024	15:53	LB133344
	Chromium	963	1000	96	90 - 110	P	11/07/2024	15:53	LB133344
	Cobalt	2390	2500	96	90 - 110	P	11/07/2024	15:53	LB133344
	Copper	1250	1250	100	90 - 110	P	11/07/2024	15:53	LB133344
	Iron	4810	5000	96	90 - 110	P	11/07/2024	15:53	LB133344
	Lead	4800	5000	96	90 - 110	P	11/07/2024	15:53	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	23100	25000	92	90 - 110	P	11/07/2024	15:53	LB133344
	Manganese	2280	2500	91	90 - 110	P	11/07/2024	15:53	LB133344
	Nickel	2390	2500	96	90 - 110	P	11/07/2024	15:53	LB133344
	Potassium	25000	25000	100	90 - 110	P	11/07/2024	15:53	LB133344
	Selenium	5050	5000	101	90 - 110	P	11/07/2024	15:53	LB133344
	Silver	1220	1250	98	90 - 110	P	11/07/2024	15:53	LB133344
	Sodium	25800	25000	103	90 - 110	P	11/07/2024	15:53	LB133344
	Thallium	4850	5000	97	90 - 110	P	11/07/2024	15:53	LB133344
	Vanadium	2370	2500	95	90 - 110	P	11/07/2024	15:53	LB133344
	Zinc	2480	2500	99	90 - 110	P	11/07/2024	15:53	LB133344
CCV03	Aluminum	10100	10000	101	90 - 110	P	11/07/2024	16:45	LB133344
	Antimony	5250	5000	105	90 - 110	P	11/07/2024	16:45	LB133344
	Arsenic	5190	5000	104	90 - 110	P	11/07/2024	16:45	LB133344
	Barium	9850	10000	98	90 - 110	P	11/07/2024	16:45	LB133344
	Beryllium	235	250	94	90 - 110	P	11/07/2024	16:45	LB133344
	Cadmium	2470	2500	99	90 - 110	P	11/07/2024	16:45	LB133344
	Calcium	24000	25000	96	90 - 110	P	11/07/2024	16:45	LB133344
	Chromium	993	1000	99	90 - 110	P	11/07/2024	16:45	LB133344
	Cobalt	2470	2500	99	90 - 110	P	11/07/2024	16:45	LB133344
	Copper	1300	1250	104	90 - 110	P	11/07/2024	16:45	LB133344
	Iron	4970	5000	99	90 - 110	P	11/07/2024	16:45	LB133344
	Lead	4970	5000	99	90 - 110	P	11/07/2024	16:45	LB133344
	Magnesium	23900	25000	96	90 - 110	P	11/07/2024	16:45	LB133344
	Manganese	2370	2500	95	90 - 110	P	11/07/2024	16:45	LB133344
	Nickel	2480	2500	99	90 - 110	P	11/07/2024	16:45	LB133344
	Potassium	25900	25000	103	90 - 110	P	11/07/2024	16:45	LB133344
	Selenium	5320	5000	106	90 - 110	P	11/07/2024	16:45	LB133344
	Silver	1240	1250	100	90 - 110	P	11/07/2024	16:45	LB133344
	Sodium	25500	25000	102	90 - 110	P	11/07/2024	16:45	LB133344
	Thallium	5400	5000	108	90 - 110	P	11/07/2024	16:45	LB133344
	Vanadium	2460	2500	98	90 - 110	P	11/07/2024	16:45	LB133344
	Zinc	2400	2500	96	90 - 110	P	11/07/2024	16:45	LB133344
CCV04	Aluminum	10200	10000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Antimony	5280	5000	106	90 - 110	P	11/07/2024	17:56	LB133344

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	5210	5000	104	90 - 110	P	11/07/2024	17:56	LB133344
	Barium	9810	10000	98	90 - 110	P	11/07/2024	17:56	LB133344
	Beryllium	242	250	97	90 - 110	P	11/07/2024	17:56	LB133344
	Cadmium	2500	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
	Calcium	24200	25000	97	90 - 110	P	11/07/2024	17:56	LB133344
	Chromium	1020	1000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Cobalt	2490	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
	Copper	1300	1250	104	90 - 110	P	11/07/2024	17:56	LB133344
	Iron	4980	5000	100	90 - 110	P	11/07/2024	17:56	LB133344
	Lead	5010	5000	100	90 - 110	P	11/07/2024	17:56	LB133344
	Magnesium	24300	25000	97	90 - 110	P	11/07/2024	17:56	LB133344
	Manganese	2370	2500	95	90 - 110	P	11/07/2024	17:56	LB133344
	Nickel	2490	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
	Potassium	26000	25000	104	90 - 110	P	11/07/2024	17:56	LB133344
	Selenium	5390	5000	108	90 - 110	P	11/07/2024	17:56	LB133344
	Silver	1260	1250	101	90 - 110	P	11/07/2024	17:56	LB133344
	Sodium	25400	25000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Thallium	5070	5000	102	90 - 110	P	11/07/2024	17:56	LB133344
	Vanadium	2490	2500	99	90 - 110	P	11/07/2024	17:56	LB133344
	Zinc	2510	2500	100	90 - 110	P	11/07/2024	17:56	LB133344
CCV05	Aluminum	10000	10000	100	90 - 110	P	11/07/2024	18:32	LB133344
	Antimony	5190	5000	104	90 - 110	P	11/07/2024	18:32	LB133344
	Arsenic	5120	5000	102	90 - 110	P	11/07/2024	18:32	LB133344
	Barium	9790	10000	98	90 - 110	P	11/07/2024	18:32	LB133344
	Beryllium	236	250	94	90 - 110	P	11/07/2024	18:32	LB133344
	Cadmium	2430	2500	97	90 - 110	P	11/07/2024	18:32	LB133344
	Calcium	23800	25000	95	90 - 110	P	11/07/2024	18:32	LB133344
	Chromium	988	1000	99	90 - 110	P	11/07/2024	18:32	LB133344
	Cobalt	2430	2500	97	90 - 110	P	11/07/2024	18:32	LB133344
	Copper	1280	1250	102	90 - 110	P	11/07/2024	18:32	LB133344
	Iron	4910	5000	98	90 - 110	P	11/07/2024	18:32	LB133344
	Lead	4880	5000	98	90 - 110	P	11/07/2024	18:32	LB133344
	Magnesium	23800	25000	95	90 - 110	P	11/07/2024	18:32	LB133344
	Manganese	2350	2500	94	90 - 110	P	11/07/2024	18:32	LB133344

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	2430	2500	97	90 - 110	P	11/07/2024	18:32	LB133344
	Potassium	25800	25000	103	90 - 110	P	11/07/2024	18:32	LB133344
	Selenium	5290	5000	106	90 - 110	P	11/07/2024	18:32	LB133344
	Silver	1240	1250	99	90 - 110	P	11/07/2024	18:32	LB133344
	Sodium	25600	25000	102	90 - 110	P	11/07/2024	18:32	LB133344
	Thallium	5000	5000	100	90 - 110	P	11/07/2024	18:32	LB133344
	Vanadium	2440	2500	98	90 - 110	P	11/07/2024	18:32	LB133344
	Zinc	2500	2500	100	90 - 110	P	11/07/2024	18:32	LB133344
CCV06	Aluminum	9950	10000	100	90 - 110	P	11/07/2024	19:08	LB133344
	Antimony	5160	5000	103	90 - 110	P	11/07/2024	19:08	LB133344
	Arsenic	5110	5000	102	90 - 110	P	11/07/2024	19:08	LB133344
	Barium	9640	10000	96	90 - 110	P	11/07/2024	19:08	LB133344
	Beryllium	238	250	95	90 - 110	P	11/07/2024	19:08	LB133344
	Cadmium	2460	2500	99	90 - 110	P	11/07/2024	19:08	LB133344
	Calcium	23800	25000	95	90 - 110	P	11/07/2024	19:08	LB133344
	Chromium	994	1000	99	90 - 110	P	11/07/2024	19:08	LB133344
	Cobalt	2460	2500	98	90 - 110	P	11/07/2024	19:08	LB133344
	Copper	1270	1250	102	90 - 110	P	11/07/2024	19:08	LB133344
	Iron	4870	5000	97	90 - 110	P	11/07/2024	19:08	LB133344
	Lead	4930	5000	99	90 - 110	P	11/07/2024	19:08	LB133344
	Magnesium	23800	25000	95	90 - 110	P	11/07/2024	19:08	LB133344
	Manganese	2330	2500	93	90 - 110	P	11/07/2024	19:08	LB133344
	Nickel	2460	2500	98	90 - 110	P	11/07/2024	19:08	LB133344
	Potassium	25300	25000	101	90 - 110	P	11/07/2024	19:08	LB133344
	Selenium	5260	5000	105	90 - 110	P	11/07/2024	19:08	LB133344
	Silver	1240	1250	99	90 - 110	P	11/07/2024	19:08	LB133344
	Sodium	25300	25000	101	90 - 110	P	11/07/2024	19:08	LB133344
	Thallium	5060	5000	101	90 - 110	P	11/07/2024	19:08	LB133344
	Vanadium	2430	2500	97	90 - 110	P	11/07/2024	19:08	LB133344
	Zinc	2490	2500	100	90 - 110	P	11/07/2024	19:08	LB133344
CCV07	Aluminum	9840	10000	98	90 - 110	P	11/07/2024	19:58	LB133344
	Antimony	5160	5000	103	90 - 110	P	11/07/2024	19:58	LB133344
	Arsenic	5100	5000	102	90 - 110	P	11/07/2024	19:58	LB133344
	Barium	9400	10000	94	90 - 110	P	11/07/2024	19:58	LB133344

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	232	250	93	90 - 110	P	11/07/2024	19:58	LB133344
	Cadmium	2420	2500	97	90 - 110	P	11/07/2024	19:58	LB133344
	Calcium	23300	25000	93	90 - 110	P	11/07/2024	19:58	LB133344
	Chromium	986	1000	99	90 - 110	P	11/07/2024	19:58	LB133344
	Cobalt	2410	2500	96	90 - 110	P	11/07/2024	19:58	LB133344
	Copper	1270	1250	101	90 - 110	P	11/07/2024	19:58	LB133344
	Iron	4800	5000	96	90 - 110	P	11/07/2024	19:58	LB133344
	Lead	4850	5000	97	90 - 110	P	11/07/2024	19:58	LB133344
	Magnesium	23400	25000	94	90 - 110	P	11/07/2024	19:58	LB133344
	Manganese	2270	2500	91	90 - 110	P	11/07/2024	19:58	LB133344
	Nickel	2410	2500	96	90 - 110	P	11/07/2024	19:58	LB133344
	Potassium	25200	25000	101	90 - 110	P	11/07/2024	19:58	LB133344
	Selenium	5270	5000	105	90 - 110	P	11/07/2024	19:58	LB133344
	Silver	1230	1250	98	90 - 110	P	11/07/2024	19:58	LB133344
	Sodium	24900	25000	100	90 - 110	P	11/07/2024	19:58	LB133344
	Thallium	4910	5000	98	90 - 110	P	11/07/2024	19:58	LB133344
	Vanadium	2400	2500	96	90 - 110	P	11/07/2024	19:58	LB133344
	Zinc	2490	2500	100	90 - 110	P	11/07/2024	19:58	LB133344
CCV08	Aluminum	9850	10000	98	90 - 110	P	11/07/2024	20:58	LB133344
	Antimony	5180	5000	104	90 - 110	P	11/07/2024	20:58	LB133344
	Arsenic	5100	5000	102	90 - 110	P	11/07/2024	20:58	LB133344
	Barium	9480	10000	95	90 - 110	P	11/07/2024	20:58	LB133344
	Beryllium	234	250	94	90 - 110	P	11/07/2024	20:58	LB133344
	Cadmium	2410	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Calcium	23200	25000	93	90 - 110	P	11/07/2024	20:58	LB133344
	Chromium	989	1000	99	90 - 110	P	11/07/2024	20:58	LB133344
	Cobalt	2410	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Copper	1270	1250	102	90 - 110	P	11/07/2024	20:58	LB133344
	Iron	4890	5000	98	90 - 110	P	11/07/2024	20:58	LB133344
	Lead	4840	5000	97	90 - 110	P	11/07/2024	20:58	LB133344
	Magnesium	23300	25000	93	90 - 110	P	11/07/2024	20:58	LB133344
	Manganese	2280	2500	91	90 - 110	P	11/07/2024	20:58	LB133344
	Nickel	2410	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Potassium	25900	25000	104	90 - 110	P	11/07/2024	20:58	LB133344

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	5290	5000	106	90 - 110	P	11/07/2024	20:58	LB133344
	Silver	1250	1250	100	90 - 110	P	11/07/2024	20:58	LB133344
	Sodium	26000	25000	104	90 - 110	P	11/07/2024	20:58	LB133344
	Thallium	4970	5000	99	90 - 110	P	11/07/2024	20:58	LB133344
	Vanadium	2390	2500	96	90 - 110	P	11/07/2024	20:58	LB133344
	Zinc	2530	2500	101	90 - 110	P	11/07/2024	20:58	LB133344
CCV09	Aluminum	9720	10000	97	90 - 110	P	11/07/2024	21:51	LB133344
	Antimony	5100	5000	102	90 - 110	P	11/07/2024	21:51	LB133344
	Arsenic	5030	5000	100	90 - 110	P	11/07/2024	21:51	LB133344
	Barium	9510	10000	95	90 - 110	P	11/07/2024	21:51	LB133344
	Beryllium	231	250	92	90 - 110	P	11/07/2024	21:51	LB133344
	Cadmium	2390	2500	95	90 - 110	P	11/07/2024	21:51	LB133344
	Calcium	23100	25000	92	90 - 110	P	11/07/2024	21:51	LB133344
	Chromium	966	1000	97	90 - 110	P	11/07/2024	21:51	LB133344
	Cobalt	2380	2500	95	90 - 110	P	11/07/2024	21:51	LB133344
	Copper	1250	1250	100	90 - 110	P	11/07/2024	21:51	LB133344
	Iron	4750	5000	95	90 - 110	P	11/07/2024	21:51	LB133344
	Lead	4780	5000	96	90 - 110	P	11/07/2024	21:51	LB133344
	Magnesium	22900	25000	92	90 - 110	P	11/07/2024	21:51	LB133344
	Manganese	2250	2500	90	90 - 110	P	11/07/2024	21:51	LB133344
	Nickel	2380	2500	95	90 - 110	P	11/07/2024	21:51	LB133344
	Potassium	25100	25000	100	90 - 110	P	11/07/2024	21:51	LB133344
	Selenium	5170	5000	103	90 - 110	P	11/07/2024	21:51	LB133344
	Silver	1210	1250	97	90 - 110	P	11/07/2024	21:51	LB133344
	Sodium	25300	25000	101	90 - 110	P	11/07/2024	21:51	LB133344
	Thallium	5380	5000	108	90 - 110	P	11/07/2024	21:51	LB133344
	Vanadium	2360	2500	94	90 - 110	P	11/07/2024	21:51	LB133344
	Zinc	2670	2500	107	90 - 110	P	11/07/2024	21:51	LB133344
CCV10	Aluminum	9650	10000	96	90 - 110	P	11/07/2024	22:52	LB133344
	Antimony	5080	5000	102	90 - 110	P	11/07/2024	22:52	LB133344
	Arsenic	5000	5000	100	90 - 110	P	11/07/2024	22:52	LB133344
	Barium	9460	10000	95	90 - 110	P	11/07/2024	22:52	LB133344
	Beryllium	255	250	102	90 - 110	P	11/07/2024	22:52	LB133344
	Cadmium	2340	2500	94	90 - 110	P	11/07/2024	22:52	LB133344

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	22600	25000	90	90 - 110	P	11/07/2024	22:52	LB133344
	Chromium	963	1000	96	90 - 110	P	11/07/2024	22:52	LB133344
	Cobalt	2340	2500	94	90 - 110	P	11/07/2024	22:52	LB133344
	Copper	1240	1250	99	90 - 110	P	11/07/2024	22:52	LB133344
	Iron	4790	5000	96	90 - 110	P	11/07/2024	22:52	LB133344
	Lead	4710	5000	94	90 - 110	P	11/07/2024	22:52	LB133344
	Magnesium	26500	25000	106	90 - 110	P	11/07/2024	22:52	LB133344
	Manganese	2500	2500	100	90 - 110	P	11/07/2024	22:52	LB133344
	Nickel	2340	2500	94	90 - 110	P	11/07/2024	22:52	LB133344
	Potassium	26100	25000	104	90 - 110	P	11/07/2024	22:52	LB133344
	Selenium	5160	5000	103	90 - 110	P	11/07/2024	22:52	LB133344
	Silver	1220	1250	98	90 - 110	P	11/07/2024	22:52	LB133344
	Sodium	27200	25000	109	90 - 110	P	11/07/2024	22:52	LB133344
	Thallium	5290	5000	106	90 - 110	P	11/07/2024	22:52	LB133344
	Vanadium	2320	2500	93	90 - 110	P	11/07/2024	22:52	LB133344
	Zinc	2400	2500	96	90 - 110	P	11/07/2024	22:52	LB133344
CCV11	Aluminum	9750	10000	98	90 - 110	P	11/07/2024	23:43	LB133344
	Antimony	5100	5000	102	90 - 110	P	11/07/2024	23:43	LB133344
	Arsenic	5020	5000	100	90 - 110	P	11/07/2024	23:43	LB133344
	Barium	9690	10000	97	90 - 110	P	11/07/2024	23:43	LB133344
	Beryllium	234	250	93	90 - 110	P	11/07/2024	23:43	LB133344
	Cadmium	2390	2500	96	90 - 110	P	11/07/2024	23:43	LB133344
	Calcium	23200	25000	93	90 - 110	P	11/07/2024	23:43	LB133344
	Chromium	962	1000	96	90 - 110	P	11/07/2024	23:43	LB133344
	Cobalt	2390	2500	95	90 - 110	P	11/07/2024	23:43	LB133344
	Copper	1250	1250	100	90 - 110	P	11/07/2024	23:43	LB133344
	Iron	4730	5000	94	90 - 110	P	11/07/2024	23:43	LB133344
	Lead	4800	5000	96	90 - 110	P	11/07/2024	23:43	LB133344
	Magnesium	23000	25000	92	90 - 110	P	11/07/2024	23:43	LB133344
	Manganese	2290	2500	92	90 - 110	P	11/07/2024	23:43	LB133344
	Nickel	2390	2500	95	90 - 110	P	11/07/2024	23:43	LB133344
	Potassium	25300	25000	101	90 - 110	P	11/07/2024	23:43	LB133344
	Selenium	5160	5000	103	90 - 110	P	11/07/2024	23:43	LB133344
	Silver	1210	1250	97	90 - 110	P	11/07/2024	23:43	LB133344

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	26300	25000	105	90 - 110	P	11/07/2024	23:43	LB133344
	Thallium	5350	5000	107	90 - 110	P	11/07/2024	23:43	LB133344
	Vanadium	2370	2500	95	90 - 110	P	11/07/2024	23:43	LB133344
	Zinc	2430	2500	97	90 - 110	P	11/07/2024	23:43	LB133344
CCV12	Aluminum	9840	10000	98	90 - 110	P	11/08/2024	00:39	LB133344
	Antimony	5240	5000	105	90 - 110	P	11/08/2024	00:39	LB133344
	Arsenic	5150	5000	103	90 - 110	P	11/08/2024	00:39	LB133344
	Barium	9830	10000	98	90 - 110	P	11/08/2024	00:39	LB133344
	Beryllium	228	250	91	90 - 110	P	11/08/2024	00:39	LB133344
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	00:39	LB133344
	Calcium	22900	25000	92	90 - 110	P	11/08/2024	00:39	LB133344
	Chromium	965	1000	96	90 - 110	P	11/08/2024	00:39	LB133344
	Cobalt	2390	2500	96	90 - 110	P	11/08/2024	00:39	LB133344
	Copper	1280	1250	102	90 - 110	P	11/08/2024	00:39	LB133344
	Iron	4790	5000	96	90 - 110	P	11/08/2024	00:39	LB133344
	Lead	4820	5000	96	90 - 110	P	11/08/2024	00:39	LB133344
	Magnesium	22700	25000	91	90 - 110	P	11/08/2024	00:39	LB133344
	Manganese	2260	2500	90	90 - 110	P	11/08/2024	00:39	LB133344
	Nickel	2390	2500	96	90 - 110	P	11/08/2024	00:39	LB133344
	Potassium	26400	25000	106	90 - 110	P	11/08/2024	00:39	LB133344
	Selenium	5340	5000	107	90 - 110	P	11/08/2024	00:39	LB133344
	Silver	1230	1250	98	90 - 110	P	11/08/2024	00:39	LB133344
	Sodium	22700	25000	91	90 - 110	P	11/08/2024	00:39	LB133344
	Thallium	5270	5000	105	90 - 110	P	11/08/2024	00:39	LB133344
	Vanadium	2370	2500	95	90 - 110	P	11/08/2024	00:39	LB133344
	Zinc	2380	2500	95	90 - 110	P	11/08/2024	00:39	LB133344
CCV13	Aluminum	9910	10000	99	90 - 110	P	11/08/2024	00:57	LB133344
	Antimony	5250	5000	105	90 - 110	P	11/08/2024	00:57	LB133344
	Arsenic	5160	5000	103	90 - 110	P	11/08/2024	00:57	LB133344
	Barium	9650	10000	96	90 - 110	P	11/08/2024	00:57	LB133344
	Beryllium	233	250	93	90 - 110	P	11/08/2024	00:57	LB133344
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	00:57	LB133344
	Calcium	23200	25000	93	90 - 110	P	11/08/2024	00:57	LB133344
	Chromium	980	1000	98	90 - 110	P	11/08/2024	00:57	LB133344

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	2420	2500	97	90 - 110	P	11/08/2024	00:57	LB133344
	Copper	1290	1250	103	90 - 110	P	11/08/2024	00:57	LB133344
	Iron	4780	5000	96	90 - 110	P	11/08/2024	00:57	LB133344
	Lead	4870	5000	97	90 - 110	P	11/08/2024	00:57	LB133344
	Magnesium	23100	25000	92	90 - 110	P	11/08/2024	00:57	LB133344
	Manganese	2280	2500	91	90 - 110	P	11/08/2024	00:57	LB133344
	Nickel	2420	2500	97	90 - 110	P	11/08/2024	00:57	LB133344
	Potassium	26000	25000	104	90 - 110	P	11/08/2024	00:57	LB133344
	Selenium	5340	5000	107	90 - 110	P	11/08/2024	00:57	LB133344
	Silver	1230	1250	99	90 - 110	P	11/08/2024	00:57	LB133344
	Sodium	26900	25000	108	90 - 110	P	11/08/2024	00:57	LB133344
	Thallium	5410	5000	108	90 - 110	P	11/08/2024	00:57	LB133344
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	00:57	LB133344
	Zinc	2470	2500	99	90 - 110	P	11/08/2024	00:57	LB133344

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- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2550	2500	102	90 - 110	P	11/08/2024	13:59	LB133365
	Antimony	979	1000	98	90 - 110	P	11/08/2024	13:59	LB133365
	Arsenic	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Barium	513	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Beryllium	511	510	100	90 - 110	P	11/08/2024	13:59	LB133365
	Cadmium	497	510	97	90 - 110	P	11/08/2024	13:59	LB133365
	Calcium	10100	10000	101	90 - 110	P	11/08/2024	13:59	LB133365
	Chromium	514	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Cobalt	506	520	97	90 - 110	P	11/08/2024	13:59	LB133365
	Copper	521	510	102	90 - 110	P	11/08/2024	13:59	LB133365
	Iron	9660	10000	97	90 - 110	P	11/08/2024	13:59	LB133365
	Lead	999	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Magnesium	5940	6000	99	90 - 110	P	11/08/2024	13:59	LB133365
	Manganese	519	520	100	90 - 110	P	11/08/2024	13:59	LB133365
	Nickel	509	530	96	90 - 110	P	11/08/2024	13:59	LB133365
	Potassium	9550	9900	96	90 - 110	P	11/08/2024	13:59	LB133365
	Selenium	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Silver	251	250	100	90 - 110	P	11/08/2024	13:59	LB133365
	Sodium	9170	10000	92	90 - 110	P	11/08/2024	13:59	LB133365
	Thallium	975	1000	98	90 - 110	P	11/08/2024	13:59	LB133365
	Vanadium	496	500	99	90 - 110	P	11/08/2024	13:59	LB133365
	Zinc	1030	1000	103	90 - 110	P	11/08/2024	13:59	LB133365

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	109	100	109	80 - 120	P	11/08/2024	14:11	LB133365
	Antimony	48.4	50.0	97	80 - 120	P	11/08/2024	14:11	LB133365
	Arsenic	19.5	20.0	98	80 - 120	P	11/08/2024	14:11	LB133365
	Barium	95.3	100	95	80 - 120	P	11/08/2024	14:11	LB133365
	Beryllium	5.66	6.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Cadmium	6.34	6.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Calcium	1970	2000	98	80 - 120	P	11/08/2024	14:11	LB133365
	Chromium	9.48	10.0	95	80 - 120	P	11/08/2024	14:11	LB133365
	Cobalt	28.3	30.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Copper	22.8	20.0	114	80 - 120	P	11/08/2024	14:11	LB133365
	Iron	93.6	100	94	80 - 120	P	11/08/2024	14:11	LB133365
	Lead	11.8	12.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Magnesium	1950	2000	98	80 - 120	P	11/08/2024	14:11	LB133365
	Manganese	19.8	20.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Nickel	37.8	40.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Potassium	1870	2000	94	80 - 120	P	11/08/2024	14:11	LB133365
	Selenium	20.6	20.0	103	80 - 120	P	11/08/2024	14:11	LB133365
	Silver	10.6	10.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Sodium	1630	2000	82	80 - 120	P	11/08/2024	14:11	LB133365
	Thallium	37.6	40.0	94	80 - 120	P	11/08/2024	14:11	LB133365
	Vanadium	38.6	40.0	96	80 - 120	P	11/08/2024	14:11	LB133365
	Zinc	42.1	40.0	105	80 - 120	P	11/08/2024	14:11	LB133365

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	9960	10000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Antimony	5040	5000	101	90 - 110	P	11/08/2024	14:44	LB133365
	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	14:44	LB133365
	Barium	9530	10000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Beryllium	241	250	96	90 - 110	P	11/08/2024	14:44	LB133365
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	14:44	LB133365
	Calcium	24100	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Chromium	1050	1000	105	90 - 110	P	11/08/2024	14:44	LB133365
	Cobalt	2420	2500	97	90 - 110	P	11/08/2024	14:44	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	14:44	LB133365
	Iron	4850	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Lead	4870	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Magnesium	24200	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Manganese	2370	2500	95	90 - 110	P	11/08/2024	14:44	LB133365
	Nickel	2440	2500	97	90 - 110	P	11/08/2024	14:44	LB133365
	Potassium	24600	25000	98	90 - 110	P	11/08/2024	14:44	LB133365
	Selenium	5020	5000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	14:44	LB133365
	Sodium	24300	25000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Thallium	4770	5000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Vanadium	2450	2500	98	90 - 110	P	11/08/2024	14:44	LB133365
	Zinc	2530	2500	101	90 - 110	P	11/08/2024	14:44	LB133365
CCV02	Aluminum	9830	10000	98	90 - 110	P	11/08/2024	15:29	LB133365
	Antimony	5060	5000	101	90 - 110	P	11/08/2024	15:29	LB133365
	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	15:29	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	15:29	LB133365
	Beryllium	231	250	92	90 - 110	P	11/08/2024	15:29	LB133365
	Cadmium	2360	2500	94	90 - 110	P	11/08/2024	15:29	LB133365
	Calcium	23300	25000	93	90 - 110	P	11/08/2024	15:29	LB133365
	Chromium	918	1000	92	90 - 110	P	11/08/2024	15:29	LB133365
	Cobalt	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Copper	1260	1250	101	90 - 110	P	11/08/2024	15:29	LB133365
	Iron	4780	5000	96	90 - 110	P	11/08/2024	15:29	LB133365
	Lead	4800	5000	96	90 - 110	P	11/08/2024	15:29	LB133365

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- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	23400	25000	94	90 - 110	P	11/08/2024	15:29	LB133365
	Manganese	2280	2500	91	90 - 110	P	11/08/2024	15:29	LB133365
	Nickel	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Potassium	25100	25000	100	90 - 110	P	11/08/2024	15:29	LB133365
	Selenium	5080	5000	102	90 - 110	P	11/08/2024	15:29	LB133365
	Silver	1230	1250	98	90 - 110	P	11/08/2024	15:29	LB133365
	Sodium	24500	25000	98	90 - 110	P	11/08/2024	15:29	LB133365
	Thallium	5010	5000	100	90 - 110	P	11/08/2024	15:29	LB133365
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	15:29	LB133365
	Zinc	2520	2500	101	90 - 110	P	11/08/2024	15:29	LB133365
CCV03	Aluminum	9930	10000	99	90 - 110	P	11/08/2024	16:23	LB133365
	Antimony	5110	5000	102	90 - 110	P	11/08/2024	16:23	LB133365
	Arsenic	4980	5000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Barium	9610	10000	96	90 - 110	P	11/08/2024	16:23	LB133365
	Beryllium	234	250	94	90 - 110	P	11/08/2024	16:23	LB133365
	Cadmium	2380	2500	95	90 - 110	P	11/08/2024	16:23	LB133365
	Calcium	23600	25000	94	90 - 110	P	11/08/2024	16:23	LB133365
	Chromium	930	1000	93	90 - 110	P	11/08/2024	16:23	LB133365
	Cobalt	2410	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Copper	1270	1250	101	90 - 110	P	11/08/2024	16:23	LB133365
	Iron	4880	5000	98	90 - 110	P	11/08/2024	16:23	LB133365
	Lead	4840	5000	97	90 - 110	P	11/08/2024	16:23	LB133365
	Magnesium	23700	25000	95	90 - 110	P	11/08/2024	16:23	LB133365
	Manganese	2390	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Nickel	2410	2500	96	90 - 110	P	11/08/2024	16:23	LB133365
	Potassium	25600	25000	102	90 - 110	P	11/08/2024	16:23	LB133365
	Selenium	5130	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	16:23	LB133365
	Sodium	25100	25000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Thallium	5140	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Vanadium	2420	2500	97	90 - 110	P	11/08/2024	16:23	LB133365
	Zinc	2560	2500	102	90 - 110	P	11/08/2024	16:23	LB133365
CCV04	Aluminum	9690	10000	97	90 - 110	P	11/08/2024	17:16	LB133365
	Antimony	5290	5000	106	90 - 110	P	11/08/2024	17:16	LB133365

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	5190	5000	104	90 - 110	P	11/08/2024	17:16	LB133365
	Barium	9360	10000	94	90 - 110	P	11/08/2024	17:16	LB133365
	Beryllium	227	250	91	90 - 110	P	11/08/2024	17:16	LB133365
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	17:16	LB133365
	Calcium	22800	25000	91	90 - 110	P	11/08/2024	17:16	LB133365
	Chromium	927	1000	93	90 - 110	P	11/08/2024	17:16	LB133365
	Cobalt	2450	2500	98	90 - 110	P	11/08/2024	17:16	LB133365
	Copper	1310	1250	105	90 - 110	P	11/08/2024	17:16	LB133365
	Iron	4860	5000	97	90 - 110	P	11/08/2024	17:16	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	17:16	LB133365
	Magnesium	23000	25000	92	90 - 110	P	11/08/2024	17:16	LB133365
	Manganese	2310	2500	93	90 - 110	P	11/08/2024	17:16	LB133365
	Nickel	2460	2500	98	90 - 110	P	11/08/2024	17:16	LB133365
	Potassium	25800	25000	103	90 - 110	P	11/08/2024	17:16	LB133365
	Selenium	5360	5000	107	90 - 110	P	11/08/2024	17:16	LB133365
	Silver	1260	1250	101	90 - 110	P	11/08/2024	17:16	LB133365
	Sodium	24500	25000	98	90 - 110	P	11/08/2024	17:16	LB133365
	Thallium	5230	5000	105	90 - 110	P	11/08/2024	17:16	LB133365
	Vanadium	2350	2500	94	90 - 110	P	11/08/2024	17:16	LB133365
	Zinc	2610	2500	104	90 - 110	P	11/08/2024	17:16	LB133365
CCV05	Aluminum	9880	10000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Antimony	5230	5000	104	90 - 110	P	11/08/2024	18:04	LB133365
	Arsenic	5110	5000	102	90 - 110	P	11/08/2024	18:04	LB133365
	Barium	9290	10000	93	90 - 110	P	11/08/2024	18:04	LB133365
	Beryllium	234	250	94	90 - 110	P	11/08/2024	18:04	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	18:04	LB133365
	Calcium	23500	25000	94	90 - 110	P	11/08/2024	18:04	LB133365
	Chromium	906	1000	91	90 - 110	P	11/08/2024	18:04	LB133365
	Cobalt	2460	2500	98	90 - 110	P	11/08/2024	18:04	LB133365
	Copper	1290	1250	103	90 - 110	P	11/08/2024	18:04	LB133365
	Iron	4750	5000	95	90 - 110	P	11/08/2024	18:04	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Magnesium	23700	25000	95	90 - 110	P	11/08/2024	18:04	LB133365
	Manganese	2280	2500	91	90 - 110	P	11/08/2024	18:04	LB133365

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	2460	2500	98	90 - 110	P	11/08/2024	18:04	LB133365
	Potassium	24800	25000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Selenium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	18:04	LB133365
	Sodium	23400	25000	94	90 - 110	P	11/08/2024	18:04	LB133365
	Thallium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365
	Vanadium	2410	2500	96	90 - 110	P	11/08/2024	18:04	LB133365
	Zinc	2540	2500	102	90 - 110	P	11/08/2024	18:04	LB133365
CCV06	Aluminum	9790	10000	98	90 - 110	P	11/08/2024	18:55	LB133365
	Antimony	5070	5000	101	90 - 110	P	11/08/2024	18:55	LB133365
	Arsenic	4970	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	18:55	LB133365
	Beryllium	236	250	95	90 - 110	P	11/08/2024	18:55	LB133365
	Cadmium	2360	2500	95	90 - 110	P	11/08/2024	18:55	LB133365
	Calcium	23500	25000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Chromium	923	1000	92	90 - 110	P	11/08/2024	18:55	LB133365
	Cobalt	2400	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Copper	1250	1250	100	90 - 110	P	11/08/2024	18:55	LB133365
	Iron	4700	5000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Lead	4830	5000	97	90 - 110	P	11/08/2024	18:55	LB133365
	Magnesium	23500	25000	94	90 - 110	P	11/08/2024	18:55	LB133365
	Manganese	2290	2500	92	90 - 110	P	11/08/2024	18:55	LB133365
	Nickel	2400	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Potassium	24500	25000	98	90 - 110	P	11/08/2024	18:55	LB133365
	Selenium	5100	5000	102	90 - 110	P	11/08/2024	18:55	LB133365
	Silver	1220	1250	98	90 - 110	P	11/08/2024	18:55	LB133365
	Sodium	23900	25000	96	90 - 110	P	11/08/2024	18:55	LB133365
	Thallium	4990	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Vanadium	2390	2500	96	90 - 110	P	11/08/2024	18:55	LB133365
	Zinc	2530	2500	101	90 - 110	P	11/08/2024	18:55	LB133365
CCV07	Aluminum	10100	10000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Antimony	5180	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	Arsenic	5060	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Barium	9520	10000	95	90 - 110	P	11/08/2024	19:47	LB133365

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	243	250	97	90 - 110	P	11/08/2024	19:47	LB133365
	Cadmium	2400	2500	96	90 - 110	P	11/08/2024	19:47	LB133365
	Calcium	24000	25000	96	90 - 110	P	11/08/2024	19:47	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	19:47	LB133365
	Cobalt	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Copper	1280	1250	102	90 - 110	P	11/08/2024	19:47	LB133365
	Iron	4710	5000	94	90 - 110	P	11/08/2024	19:47	LB133365
	Lead	4910	5000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Magnesium	24100	25000	97	90 - 110	P	11/08/2024	19:47	LB133365
	Manganese	2310	2500	92	90 - 110	P	11/08/2024	19:47	LB133365
	Nickel	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Potassium	25000	25000	100	90 - 110	P	11/08/2024	19:47	LB133365
	Selenium	5210	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	19:47	LB133365
	Sodium	24600	25000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Thallium	5050	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Vanadium	2440	2500	98	90 - 110	P	11/08/2024	19:47	LB133365
	Zinc	2580	2500	103	90 - 110	P	11/08/2024	19:47	LB133365
CCV08	Aluminum	9430	10000	94	90 - 110	P	11/08/2024	20:48	LB133365
	Antimony	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Arsenic	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Barium	9200	10000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Beryllium	257	250	103	90 - 110	P	11/08/2024	20:48	LB133365
	Cadmium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Calcium	24000	25000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Cobalt	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Copper	1170	1250	94	90 - 110	P	11/08/2024	20:48	LB133365
	Iron	4520	5000	90	90 - 110	P	11/08/2024	20:48	LB133365
	Lead	4790	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Magnesium	24600	25000	98	90 - 110	P	11/08/2024	20:48	LB133365
	Manganese	2300	2500	92	90 - 110	P	11/08/2024	20:48	LB133365
	Nickel	2380	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Potassium	25700	25000	103	90 - 110	P	11/08/2024	20:48	LB133365

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	4670	5000	93	90 - 110	P	11/08/2024	20:48	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	20:48	LB133365
	Sodium	24200	25000	97	90 - 110	P	11/08/2024	20:48	LB133365
	Thallium	4810	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Vanadium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Zinc	2380	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
CCV09	Aluminum	9360	10000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Antimony	4620	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	Arsenic	4610	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	Barium	9110	10000	91	90 - 110	P	11/08/2024	21:50	LB133365
	Beryllium	251	250	100	90 - 110	P	11/08/2024	21:50	LB133365
	Cadmium	2310	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Calcium	23600	25000	95	90 - 110	P	11/08/2024	21:50	LB133365
	Chromium	902	1000	90	90 - 110	P	11/08/2024	21:50	LB133365
	Cobalt	2330	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Copper	1160	1250	93	90 - 110	P	11/08/2024	21:50	LB133365
	Iron	5470	5000	109	90 - 110	P	11/08/2024	21:50	LB133365
	Lead	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Magnesium	24200	25000	97	90 - 110	P	11/08/2024	21:50	LB133365
	Manganese	2270	2500	91	90 - 110	P	11/08/2024	21:50	LB133365
	Nickel	2330	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Potassium	25800	25000	103	90 - 110	P	11/08/2024	21:50	LB133365
	Selenium	4690	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	21:50	LB133365
	Sodium	23900	25000	96	90 - 110	P	11/08/2024	21:50	LB133365
	Thallium	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Vanadium	2350	2500	94	90 - 110	P	11/08/2024	21:50	LB133365
	Zinc	2420	2500	97	90 - 110	P	11/08/2024	21:50	LB133365
CCV10	Aluminum	10100	10000	101	90 - 110	P	11/08/2024	23:24	LB133365
	Antimony	4640	5000	93	90 - 110	P	11/08/2024	23:24	LB133365
	Arsenic	5340	5000	107	90 - 110	P	11/08/2024	23:24	LB133365
	Barium	9550	10000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Beryllium	259	250	104	90 - 110	P	11/08/2024	23:24	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	23:24	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	22800	25000	91	90 - 110	P	11/08/2024	23:24	LB133365
	Chromium	1000	1000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Cobalt	2530	2500	101	90 - 110	P	11/08/2024	23:24	LB133365
	Copper	1130	1250	91	90 - 110	P	11/08/2024	23:24	LB133365
	Iron	5150	5000	103	90 - 110	P	11/08/2024	23:24	LB133365
	Lead	4980	5000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Magnesium	24100	25000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Manganese	2380	2500	95	90 - 110	P	11/08/2024	23:24	LB133365
	Nickel	2360	2500	94	90 - 110	P	11/08/2024	23:24	LB133365
	Potassium	26300	25000	105	90 - 110	P	11/08/2024	23:24	LB133365
	Selenium	4900	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Silver	1270	1250	102	90 - 110	P	11/08/2024	23:24	LB133365
	Sodium	26100	25000	104	90 - 110	P	11/08/2024	23:24	LB133365
	Thallium	4930	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Vanadium	2610	2500	104	90 - 110	P	11/08/2024	23:24	LB133365
	Zinc	2690	2500	108	90 - 110	P	11/08/2024	23:24	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	2650	2500	106	90 - 110	P	11/19/2024	11:25	LB133524
	Antimony	1010	1000	101	90 - 110	P	11/19/2024	11:25	LB133524
	Arsenic	1020	1000	102	90 - 110	P	11/19/2024	11:25	LB133524
	Barium	542	520	104	90 - 110	P	11/19/2024	11:25	LB133524
	Beryllium	536	510	105	90 - 110	P	11/19/2024	11:25	LB133524
	Cadmium	526	510	103	90 - 110	P	11/19/2024	11:25	LB133524
	Calcium	10700	10000	107	90 - 110	P	11/19/2024	11:25	LB133524
	Chromium	551	520	106	90 - 110	P	11/19/2024	11:25	LB133524
	Cobalt	531	520	102	90 - 110	P	11/19/2024	11:25	LB133524
	Copper	538	510	105	90 - 110	P	11/19/2024	11:25	LB133524
	Iron	10400	10000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Lead	1040	1000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Magnesium	6280	6000	105	90 - 110	P	11/19/2024	11:25	LB133524
	Manganese	550	520	106	90 - 110	P	11/19/2024	11:25	LB133524
	Nickel	532	530	100	90 - 110	P	11/19/2024	11:25	LB133524
	Potassium	10000	9900	101	90 - 110	P	11/19/2024	11:25	LB133524
	Selenium	1040	1000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Silver	261	250	105	90 - 110	P	11/19/2024	11:25	LB133524
	Sodium	9760	10000	98	90 - 110	P	11/19/2024	11:25	LB133524
	Thallium	1090	1000	109	90 - 110	P	11/19/2024	11:25	LB133524
	Vanadium	524	500	105	90 - 110	P	11/19/2024	11:25	LB133524
	Zinc	1060	1000	106	90 - 110	P	11/19/2024	11:25	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	104	100	104	80 - 120	P	11/19/2024	11:34	LB133524
	Antimony	51.1	50.0	102	80 - 120	P	11/19/2024	11:34	LB133524
	Arsenic	20.5	20.0	102	80 - 120	P	11/19/2024	11:34	LB133524
	Barium	104	100	104	80 - 120	P	11/19/2024	11:34	LB133524
	Beryllium	5.85	6.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Cadmium	5.89	6.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Calcium	2090	2000	105	80 - 120	P	11/19/2024	11:34	LB133524
	Chromium	10.7	10.0	107	80 - 120	P	11/19/2024	11:34	LB133524
	Cobalt	29.9	30.0	100	80 - 120	P	11/19/2024	11:34	LB133524
	Copper	22.3	20.0	112	80 - 120	P	11/19/2024	11:34	LB133524
	Iron	100	100	100	80 - 120	P	11/19/2024	11:34	LB133524
	Lead	12.4	12.0	103	80 - 120	P	11/19/2024	11:34	LB133524
	Magnesium	2040	2000	102	80 - 120	P	11/19/2024	11:34	LB133524
	Manganese	21.4	20.0	107	80 - 120	P	11/19/2024	11:34	LB133524
	Nickel	39.7	40.0	99	80 - 120	P	11/19/2024	11:34	LB133524
	Potassium	1920	2000	96	80 - 120	P	11/19/2024	11:34	LB133524
	Selenium	20.6	20.0	103	80 - 120	P	11/19/2024	11:34	LB133524
	Silver	10.1	10.0	101	80 - 120	P	11/19/2024	11:34	LB133524
	Sodium	1820	2000	91	80 - 120	P	11/19/2024	11:34	LB133524
	Thallium	39.2	40.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Vanadium	40.3	40.0	101	80 - 120	P	11/19/2024	11:34	LB133524
	Zinc	45.8	40.0	114	80 - 120	P	11/19/2024	11:34	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	9940	10000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Antimony	4980	5000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Arsenic	4970	5000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Barium	10000	10000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Beryllium	249	250	100	90 - 110	P	11/19/2024	12:43	LB133524
	Cadmium	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Calcium	24800	25000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Chromium	996	1000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Cobalt	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Copper	1260	1250	101	90 - 110	P	11/19/2024	12:43	LB133524
	Iron	4880	5000	98	90 - 110	P	11/19/2024	12:43	LB133524
	Lead	4990	5000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Magnesium	24800	25000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Manganese	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Potassium	24200	25000	97	90 - 110	P	11/19/2024	12:43	LB133524
	Selenium	4950	5000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Silver	1230	1250	98	90 - 110	P	11/19/2024	12:43	LB133524
	Sodium	24200	25000	97	90 - 110	P	11/19/2024	12:43	LB133524
	Thallium	5030	5000	101	90 - 110	P	11/19/2024	12:43	LB133524
	Vanadium	2500	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Zinc	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
CCV02	Aluminum	10600	10000	106	90 - 110	P	11/19/2024	13:34	LB133524
	Antimony	5360	5000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Arsenic	5320	5000	106	90 - 110	P	11/19/2024	13:34	LB133524
	Barium	10300	10000	103	90 - 110	P	11/19/2024	13:34	LB133524
	Beryllium	262	250	105	90 - 110	P	11/19/2024	13:34	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	13:34	LB133524
	Calcium	26100	25000	104	90 - 110	P	11/19/2024	13:34	LB133524
	Chromium	1070	1000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Cobalt	2620	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Copper	1350	1250	108	90 - 110	P	11/19/2024	13:34	LB133524
	Iron	5270	5000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	13:34	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	26200	25000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Manganese	2580	2500	103	90 - 110	P	11/19/2024	13:34	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Potassium	26300	25000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Selenium	5340	5000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Silver	1320	1250	106	90 - 110	P	11/19/2024	13:34	LB133524
	Sodium	25900	25000	103	90 - 110	P	11/19/2024	13:34	LB133524
	Thallium	5230	5000	104	90 - 110	P	11/19/2024	13:34	LB133524
	Vanadium	2640	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	13:34	LB133524
CCV03	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Antimony	5130	5000	103	90 - 110	P	11/19/2024	14:24	LB133524
	Arsenic	5110	5000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Barium	10300	10000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Beryllium	266	250	106	90 - 110	P	11/19/2024	14:24	LB133524
	Cadmium	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Calcium	26000	25000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Chromium	1040	1000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Cobalt	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Copper	1300	1250	104	90 - 110	P	11/19/2024	14:24	LB133524
	Iron	4990	5000	100	90 - 110	P	11/19/2024	14:24	LB133524
	Lead	5200	5000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Magnesium	26000	25000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Manganese	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Nickel	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Potassium	24600	25000	98	90 - 110	P	11/19/2024	14:24	LB133524
	Selenium	5080	5000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Silver	1280	1250	102	90 - 110	P	11/19/2024	14:24	LB133524
	Sodium	24500	25000	98	90 - 110	P	11/19/2024	14:24	LB133524
	Thallium	5160	5000	103	90 - 110	P	11/19/2024	14:24	LB133524
	Vanadium	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Zinc	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
CCV04	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	15:31	LB133524
	Antimony	5290	5000	106	90 - 110	P	11/19/2024	15:31	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	5260	5000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Barium	10500	10000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Beryllium	261	250	104	90 - 110	P	11/19/2024	15:31	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	15:31	LB133524
	Calcium	25800	25000	103	90 - 110	P	11/19/2024	15:31	LB133524
	Chromium	1050	1000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Cobalt	2610	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	15:31	LB133524
	Iron	5080	5000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Lead	5230	5000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Magnesium	25800	25000	103	90 - 110	P	11/19/2024	15:31	LB133524
	Manganese	2570	2500	103	90 - 110	P	11/19/2024	15:31	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
	Potassium	25500	25000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Selenium	5280	5000	106	90 - 110	P	11/19/2024	15:31	LB133524
	Silver	1290	1250	103	90 - 110	P	11/19/2024	15:31	LB133524
	Sodium	25600	25000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Thallium	5410	5000	108	90 - 110	P	11/19/2024	15:31	LB133524
	Vanadium	2610	2500	104	90 - 110	P	11/19/2024	15:31	LB133524
	Zinc	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
CCV05	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Antimony	5220	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Arsenic	5210	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Barium	10300	10000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Beryllium	257	250	103	90 - 110	P	11/19/2024	16:18	LB133524
	Cadmium	2580	2500	103	90 - 110	P	11/19/2024	16:18	LB133524
	Calcium	25600	25000	102	90 - 110	P	11/19/2024	16:18	LB133524
	Chromium	1050	1000	105	90 - 110	P	11/19/2024	16:18	LB133524
	Cobalt	2580	2500	103	90 - 110	P	11/19/2024	16:18	LB133524
	Copper	1310	1250	105	90 - 110	P	11/19/2024	16:18	LB133524
	Iron	5140	5000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Lead	5170	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Magnesium	25600	25000	102	90 - 110	P	11/19/2024	16:18	LB133524
	Manganese	2540	2500	102	90 - 110	P	11/19/2024	16:18	LB133524

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	2590	2500	104	90 - 110	P	11/19/2024	16:18	LB133524
	Potassium	25700	25000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Selenium	5240	5000	105	90 - 110	P	11/19/2024	16:18	LB133524
	Silver	1290	1250	103	90 - 110	P	11/19/2024	16:18	LB133524
	Sodium	25300	25000	101	90 - 110	P	11/19/2024	16:18	LB133524
	Thallium	5210	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Vanadium	2590	2500	104	90 - 110	P	11/19/2024	16:18	LB133524
	Zinc	2640	2500	106	90 - 110	P	11/19/2024	16:18	LB133524
CCV06	Aluminum	10500	10000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Antimony	5280	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Arsenic	5270	5000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Barium	10400	10000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Beryllium	261	250	104	90 - 110	P	11/19/2024	17:19	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Calcium	25800	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Chromium	1060	1000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Cobalt	2600	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	17:19	LB133524
	Iron	5190	5000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Magnesium	25800	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Manganese	2540	2500	102	90 - 110	P	11/19/2024	17:19	LB133524
	Nickel	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Potassium	25900	25000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Selenium	5310	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Silver	1310	1250	105	90 - 110	P	11/19/2024	17:19	LB133524
	Sodium	25900	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Thallium	5300	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Vanadium	2600	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	17:19	LB133524
CCV07	Aluminum	10300	10000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Antimony	5080	5000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Arsenic	5070	5000	101	90 - 110	P	11/19/2024	18:01	LB133524
	Barium	10600	10000	106	90 - 110	P	11/19/2024	18:01	LB133524

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	256	250	102	90 - 110	P	11/19/2024	18:01	LB133524
	Cadmium	2490	2500	99	90 - 110	P	11/19/2024	18:01	LB133524
	Calcium	25100	25000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Chromium	1020	1000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Cobalt	2490	2500	100	90 - 110	P	11/19/2024	18:01	LB133524
	Copper	1290	1250	104	90 - 110	P	11/19/2024	18:01	LB133524
	Iron	4990	5000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Lead	5020	5000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Magnesium	25100	25000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Manganese	2600	2500	104	90 - 110	P	11/19/2024	18:01	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	18:01	LB133524
	Potassium	25200	25000	101	90 - 110	P	11/19/2024	18:01	LB133524
	Selenium	5100	5000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Silver	1270	1250	101	90 - 110	P	11/19/2024	18:01	LB133524
	Sodium	25600	25000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Thallium	4940	5000	99	90 - 110	P	11/19/2024	18:01	LB133524
	Vanadium	2540	2500	102	90 - 110	P	11/19/2024	18:01	LB133524
	Zinc	2480	2500	99	90 - 110	P	11/19/2024	18:01	LB133524

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	106	100	106	40 - 160	P	11/07/2024	14:42	LB133344
	Antimony	51.9	50.0	104	40 - 160	P	11/07/2024	14:42	LB133344
	Arsenic	19.9	20.0	99	40 - 160	P	11/07/2024	14:42	LB133344
	Barium	99.8	100	100	40 - 160	P	11/07/2024	14:42	LB133344
	Beryllium	5.88	6.0	98	40 - 160	P	11/07/2024	14:42	LB133344
	Cadmium	6.45	6.0	108	40 - 160	P	11/07/2024	14:42	LB133344
	Calcium	2010	2000	101	40 - 160	P	11/07/2024	14:42	LB133344
	Chromium	9.25	10.0	92	40 - 160	P	11/07/2024	14:42	LB133344
	Cobalt	29.3	30.0	98	40 - 160	P	11/07/2024	14:42	LB133344
	Copper	22.5	20.0	112	40 - 160	P	11/07/2024	14:42	LB133344
	Iron	95.5	100	96	40 - 160	P	11/07/2024	14:42	LB133344
	Lead	11.3	12.0	94	40 - 160	P	11/07/2024	14:42	LB133344
	Magnesium	2000	2000	100	40 - 160	P	11/07/2024	14:42	LB133344
	Manganese	20.5	20.0	102	40 - 160	P	11/07/2024	14:42	LB133344
	Nickel	38.8	40.0	97	40 - 160	P	11/07/2024	14:42	LB133344
	Potassium	1950	2000	98	40 - 160	P	11/07/2024	14:42	LB133344
	Selenium	18.8	20.0	94	40 - 160	P	11/07/2024	14:42	LB133344
	Silver	10.7	10.0	107	40 - 160	P	11/07/2024	14:42	LB133344
	Sodium	1610	2000	81	40 - 160	P	11/07/2024	14:42	LB133344
	Thallium	41.6	40.0	104	40 - 160	P	11/07/2024	14:42	LB133344
	Vanadium	40.4	40.0	101	40 - 160	P	11/07/2024	14:42	LB133344
	Zinc	41.4	40.0	104	40 - 160	P	11/07/2024	14:42	LB133344
CRA	Mercury	0.17	0.2	83	40 - 160	CV	11/07/2024	14:50	LB133334
CRI01	Aluminum	104	100	104	40 - 160	P	11/08/2024	14:20	LB133365
	Antimony	47.8	50.0	96	40 - 160	P	11/08/2024	14:20	LB133365
	Arsenic	20.1	20.0	100	40 - 160	P	11/08/2024	14:20	LB133365
	Barium	95.0	100	95	40 - 160	P	11/08/2024	14:20	LB133365
	Beryllium	5.62	6.0	94	40 - 160	P	11/08/2024	14:20	LB133365
	Cadmium	6.16	6.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Calcium	1950	2000	98	40 - 160	P	11/08/2024	14:20	LB133365
	Chromium	9.24	10.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Cobalt	27.8	30.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Copper	21.4	20.0	107	40 - 160	P	11/08/2024	14:20	LB133365
	Iron	92.9	100	93	40 - 160	P	11/08/2024	14:20	LB133365
	Lead	11.8	12.0	98	40 - 160	P	11/08/2024	14:20	LB133365

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	1930	2000	97	40 - 160	P	11/08/2024	14:20	LB133365
	Manganese	19.6	20.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Nickel	36.8	40.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Potassium	1840	2000	92	40 - 160	P	11/08/2024	14:20	LB133365
	Selenium	19.8	20.0	99	40 - 160	P	11/08/2024	14:20	LB133365
	Silver	10.3	10.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Sodium	1600	2000	80	40 - 160	P	11/08/2024	14:20	LB133365
	Thallium	37.3	40.0	93	40 - 160	P	11/08/2024	14:20	LB133365
	Vanadium	38.5	40.0	96	40 - 160	P	11/08/2024	14:20	LB133365
	Zinc	41.9	40.0	105	40 - 160	P	11/08/2024	14:20	LB133365
CRA	Mercury	0.21	0.2	103	40 - 160	CV	11/11/2024	14:10	LB133392
CRI01	Aluminum	107	100	107	40 - 160	P	11/19/2024	11:43	LB133524
	Antimony	49.1	50.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Arsenic	19.4	20.0	97	40 - 160	P	11/19/2024	11:43	LB133524
	Barium	105	100	105	40 - 160	P	11/19/2024	11:43	LB133524
	Beryllium	5.90	6.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Cadmium	5.78	6.0	96	40 - 160	P	11/19/2024	11:43	LB133524
	Calcium	2070	2000	104	40 - 160	P	11/19/2024	11:43	LB133524
	Chromium	10.2	10.0	102	40 - 160	P	11/19/2024	11:43	LB133524
	Cobalt	29.6	30.0	99	40 - 160	P	11/19/2024	11:43	LB133524
	Copper	22.2	20.0	111	40 - 160	P	11/19/2024	11:43	LB133524
	Iron	96.0	100	96	40 - 160	P	11/19/2024	11:43	LB133524
	Lead	12.1	12.0	101	40 - 160	P	11/19/2024	11:43	LB133524
	Magnesium	2050	2000	102	40 - 160	P	11/19/2024	11:43	LB133524
	Manganese	21.1	20.0	106	40 - 160	P	11/19/2024	11:43	LB133524
	Nickel	39.1	40.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Potassium	1920	2000	96	40 - 160	P	11/19/2024	11:43	LB133524
	Selenium	18.1	20.0	90	40 - 160	P	11/19/2024	11:43	LB133524
	Silver	10.1	10.0	101	40 - 160	P	11/19/2024	11:43	LB133524
	Sodium	1810	2000	90	40 - 160	P	11/19/2024	11:43	LB133524
	Thallium	39.1	40.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Vanadium	39.6	40.0	99	40 - 160	P	11/19/2024	11:43	LB133524
	Zinc	42.4	40.0	106	40 - 160	P	11/19/2024	11:43	LB133524

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	255000	255000	100	216000	294000	11/07/2024	14:47	LB133344
	Antimony	-0.14			-50	50	11/07/2024	14:47	LB133344
	Arsenic	4.03			-20	20	11/07/2024	14:47	LB133344
	Barium	1.97	6.0	33	-94	106	11/07/2024	14:47	LB133344
	Beryllium	1.25			-6	6	11/07/2024	14:47	LB133344
	Cadmium	6.27	1.0	627	-5	7	11/07/2024	14:47	LB133344
	Calcium	235000	245000	96	208000	282000	11/07/2024	14:47	LB133344
	Chromium	54.7	52.0	105	42	62	11/07/2024	14:47	LB133344
	Cobalt	1.98			-30	30	11/07/2024	14:47	LB133344
	Copper	6.59	2.0	330	-18	22	11/07/2024	14:47	LB133344
	Iron	95800	101000	95	85600	116500	11/07/2024	14:47	LB133344
	Lead	8.91			-12	12	11/07/2024	14:47	LB133344
	Magnesium	257000	255000	101	216000	294000	11/07/2024	14:47	LB133344
	Manganese	4.04	7.0	58	-13	27	11/07/2024	14:47	LB133344
	Nickel	2.14	2.0	107	-38	42	11/07/2024	14:47	LB133344
	Potassium	27.1			0	0	11/07/2024	14:47	LB133344
	Selenium	-18.3			-20	20	11/07/2024	14:47	LB133344
	Silver	0.85			-10	10	11/07/2024	14:47	LB133344
	Sodium	-30.2			0	0	11/07/2024	14:47	LB133344
	Thallium	4.42			-40	40	11/07/2024	14:47	LB133344
	Vanadium	7.40			-40	40	11/07/2024	14:47	LB133344
	Zinc	6.19			-40	40	11/07/2024	14:47	LB133344
ICSAB01	Aluminum	261000	247000	106	209000	285000	11/07/2024	14:51	LB133344
	Antimony	621	618	100	525	711	11/07/2024	14:51	LB133344
	Arsenic	116	104	112	88.4	120	11/07/2024	14:51	LB133344
	Barium	504	537	94	437	637	11/07/2024	14:51	LB133344
	Beryllium	498	495	101	420	570	11/07/2024	14:51	LB133344
	Cadmium	999	972	103	826	1120	11/07/2024	14:51	LB133344
	Calcium	238000	235000	101	199000	271000	11/07/2024	14:51	LB133344
	Chromium	556	542	103	460	624	11/07/2024	14:51	LB133344
	Cobalt	503	476	106	404	548	11/07/2024	14:51	LB133344
	Copper	493	511	96	434	588	11/07/2024	14:51	LB133344
	Iron	98300	99300	99	84400	114500	11/07/2024	14:51	LB133344
	Lead	56.6	49.0	116	37	61	11/07/2024	14:51	LB133344
	Magnesium	260000	248000	105	210000	286000	11/07/2024	14:51	LB133344
	Manganese	484	507	96	430	584	11/07/2024	14:51	LB133344
	Nickel	991	954	104	810	1100	11/07/2024	14:51	LB133344
	Potassium	10.4			0	0	11/07/2024	14:51	LB133344
	Selenium	32.9	46.0	72	26	66	11/07/2024	14:51	LB133344
	Silver	201	201	100	170	232	11/07/2024	14:51	LB133344
	Sodium	-89.4			0	0	11/07/2024	14:51	LB133344
	Thallium	106	108	98	68	148	11/07/2024	14:51	LB133344

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	493	491	100	417	565	11/07/2024	14:51	LB133344
	Zinc	835	952	88	809	1095	11/07/2024	14:51	LB133344
ICSA01	Aluminum	264000	255000	104	216000	294000	11/08/2024	14:24	LB133365
	Antimony	-1.65			-50	50	11/08/2024	14:24	LB133365
	Arsenic	5.52			-20	20	11/08/2024	14:24	LB133365
	Barium	1.84	6.0	31	-94	106	11/08/2024	14:24	LB133365
	Beryllium	1.29			-6	6	11/08/2024	14:24	LB133365
	Cadmium	6.11	1.0	611	-5	7	11/08/2024	14:24	LB133365
	Calcium	243000	245000	99	208000	282000	11/08/2024	14:24	LB133365
	Chromium	54.3	52.0	104	42	62	11/08/2024	14:24	LB133365
	Cobalt	2.11			-30	30	11/08/2024	14:24	LB133365
	Copper	14.3	2.0	715	-18	22	11/08/2024	14:24	LB133365
	Iron	98600	101000	98	85600	116500	11/08/2024	14:24	LB133365
	Lead	9.97			-12	12	11/08/2024	14:24	LB133365
	Magnesium	267000	255000	105	216000	294000	11/08/2024	14:24	LB133365
	Manganese	3.65	7.0	52	-13	27	11/08/2024	14:24	LB133365
	Nickel	2.63	2.0	132	-38	42	11/08/2024	14:24	LB133365
	Potassium	17.8			0	0	11/08/2024	14:24	LB133365
	Selenium	-14.4			-20	20	11/08/2024	14:24	LB133365
	Silver	-0.087			-10	10	11/08/2024	14:24	LB133365
	Sodium	15.0			0	0	11/08/2024	14:24	LB133365
	Thallium	-0.89			-40	40	11/08/2024	14:24	LB133365
	Vanadium	8.97			-40	40	11/08/2024	14:24	LB133365
	Zinc	7.04			-40	40	11/08/2024	14:24	LB133365
ICSAB01	Aluminum	260000	247000	105	209000	285000	11/08/2024	14:30	LB133365
	Antimony	622	618	101	525	711	11/08/2024	14:30	LB133365
	Arsenic	115	104	111	88.4	120	11/08/2024	14:30	LB133365
	Barium	496	537	92	437	637	11/08/2024	14:30	LB133365
	Beryllium	493	495	100	420	570	11/08/2024	14:30	LB133365
	Cadmium	979	972	101	826	1120	11/08/2024	14:30	LB133365
	Calcium	237000	235000	101	199000	271000	11/08/2024	14:30	LB133365
	Chromium	521	542	96	460	624	11/08/2024	14:30	LB133365
	Cobalt	498	476	105	404	548	11/08/2024	14:30	LB133365
	Copper	499	511	98	434	588	11/08/2024	14:30	LB133365
	Iron	95700	99300	96	84400	114500	11/08/2024	14:30	LB133365
	Lead	57.3	49.0	117	37	61	11/08/2024	14:30	LB133365
	Magnesium	260000	248000	105	210000	286000	11/08/2024	14:30	LB133365
	Manganese	480	507	95	430	584	11/08/2024	14:30	LB133365
	Nickel	981	954	103	810	1100	11/08/2024	14:30	LB133365
	Potassium	-6.03			0	0	11/08/2024	14:30	LB133365
	Selenium	31.2	46.0	68	26	66	11/08/2024	14:30	LB133365
	Silver	198	201	98	170	232	11/08/2024	14:30	LB133365

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-36.6			0	0	11/08/2024	14:30	LB133365
	Thallium	90.2	108	84	68	148	11/08/2024	14:30	LB133365
	Vanadium	495	491	101	417	565	11/08/2024	14:30	LB133365
	Zinc	1090	952	114	809	1095	11/08/2024	14:30	LB133365
ICSA01	Aluminum	263000	255000	103	216000	294000	11/19/2024	11:47	LB133524
	Antimony	-1.78			-50	50	11/19/2024	11:47	LB133524
	Arsenic	3.30			-20	20	11/19/2024	11:47	LB133524
	Barium	5.39	6.0	90	-94	106	11/19/2024	11:47	LB133524
	Beryllium	1.27			-6	6	11/19/2024	11:47	LB133524
	Cadmium	3.48	1.0	348	-5	7	11/19/2024	11:47	LB133524
	Calcium	251000	245000	102	208000	282000	11/19/2024	11:47	LB133524
	Chromium	57.2	52.0	110	42	62	11/19/2024	11:47	LB133524
	Cobalt	2.14			-30	30	11/19/2024	11:47	LB133524
	Copper	7.48	2.0	374	-18	22	11/19/2024	11:47	LB133524
	Iron	98200	101000	97	85600	116500	11/19/2024	11:47	LB133524
	Lead	8.06			-12	12	11/19/2024	11:47	LB133524
	Magnesium	274000	255000	108	216000	294000	11/19/2024	11:47	LB133524
	Manganese	4.02	7.0	57	-13	27	11/19/2024	11:47	LB133524
	Nickel	2.06	2.0	103	-38	42	11/19/2024	11:47	LB133524
	Potassium	43.8			0	0	11/19/2024	11:47	LB133524
	Selenium	-17.4			-20	20	11/19/2024	11:47	LB133524
	Silver	-0.45			-10	10	11/19/2024	11:47	LB133524
	Sodium	49.8			0	0	11/19/2024	11:47	LB133524
	Thallium	-3.78			-40	40	11/19/2024	11:47	LB133524
	Vanadium	7.04			-40	40	11/19/2024	11:47	LB133524
	Zinc	5.70			-40	40	11/19/2024	11:47	LB133524
ICSAB01	Aluminum	265000	247000	107	209000	285000	11/19/2024	11:51	LB133524
	Antimony	626	618	101	525	711	11/19/2024	11:51	LB133524
	Arsenic	116	104	112	88.4	120	11/19/2024	11:51	LB133524
	Barium	525	537	98	437	637	11/19/2024	11:51	LB133524
	Beryllium	524	495	106	420	570	11/19/2024	11:51	LB133524
	Cadmium	832	972	86	826	1120	11/19/2024	11:51	LB133524
	Calcium	250000	235000	106	199000	271000	11/19/2024	11:51	LB133524
	Chromium	571	542	105	460	624	11/19/2024	11:51	LB133524
	Cobalt	518	476	109	404	548	11/19/2024	11:51	LB133524
	Copper	493	511	96	434	588	11/19/2024	11:51	LB133524
	Iron	99700	99300	100	84400	114500	11/19/2024	11:51	LB133524
	Lead	57.8	49.0	118	37	61	11/19/2024	11:51	LB133524
	Magnesium	273000	248000	110	210000	286000	11/19/2024	11:51	LB133524
	Manganese	509	507	100	430	584	11/19/2024	11:51	LB133524
	Nickel	1020	954	107	810	1100	11/19/2024	11:51	LB133524
	Potassium	62.1			0	0	11/19/2024	11:51	LB133524

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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Selenium	31.5	46.0	68	26	66	11/19/2024	11:51	LB133524
	Silver	201	201	100	170	232	11/19/2024	11:51	LB133524
	Sodium	62.8			0	0	11/19/2024	11:51	LB133524
	Thallium	91.5	108	85	68	148	11/19/2024	11:51	LB133524
	Vanadium	509	491	104	417	565	11/19/2024	11:51	LB133524
	Zinc	1090	952	114	809	1095	11/19/2024	11:51	LB133524

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Solid **sample id:** P4699-01 **client id:** MIXED-DEMOMS

Percent Solids for Sample: 99.5 **Spiked ID:** P4699-01MS **Percent Solids for Spike Sample:** 99.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4160		3900		85.5	297		P
Antimony	mg/Kg	75 - 125	35.5		0.18	J	34.2	103		P
Arsenic	mg/Kg	75 - 125	37.3		0.81	J	34.2	107		P
Barium	mg/Kg	75 - 125	26.5		17.9		8.6	100		P
Beryllium	mg/Kg	75 - 125	8.92		0.17	J	8.6	102		P
Cadmium	mg/Kg	75 - 125	8.39		0.46		8.6	92		P
Calcium	mg/Kg	75 - 125	67400		64800		42.8	6009		P
Chromium	mg/Kg	75 - 125	30.8		16.0		17.1	87		P
Cobalt	mg/Kg	75 - 125	9.10		1.10	J	8.6	93		P
Copper	mg/Kg	75 - 125	16.2		5.06		12.8	87		P
Iron	mg/Kg	75 - 125	3270		3100		130	129		P
Lead	mg/Kg	75 - 125	42.1		4.31		42.8	88		P
Magnesium	mg/Kg	75 - 125	13700		13200		85.5	539		P
Manganese	mg/Kg	75 - 125	152		142		8.6	117		P
Nickel	mg/Kg	75 - 125	23.1		3.50		21.4	92		P
Potassium	mg/Kg	75 - 125	1960		1410		430	128	N	P
Selenium	mg/Kg	75 - 125	86.0		0.82	U	85.5	101		P
Silver	mg/Kg	75 - 125	3.61		0.21	J	3.2	106		P
Sodium	mg/Kg	75 - 125	538		362		130	135	N	P
Thallium	mg/Kg	75 - 125	80.8		1.65	U	85.5	94		P
Vanadium	mg/Kg	75 - 125	16.8		5.40		12.8	89		P
Zinc	mg/Kg	75 - 125	58.9		50.0		8.6	103		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Solid **sample id:** P4699-01 **client id:** MIXED-DEMOMSD

Percent Solids for Sample: 99.5 **Spiked ID:** P4699-01MSD **Percent Solids for Spike Sample:** 99.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4550		3900		91.8	702		P
Antimony	mg/Kg	75 - 125	37.5		0.18	J	36.7	102		P
Arsenic	mg/Kg	75 - 125	39.2		0.81	J	36.7	105		P
Barium	mg/Kg	75 - 125	29.0		17.9		9.2	120		P
Beryllium	mg/Kg	75 - 125	8.59		0.17	J	9.2	91		P
Cadmium	mg/Kg	75 - 125	8.98		0.46		9.2	93		P
Calcium	mg/Kg	75 - 125	74000		64800		45.9	20038		P
Chromium	mg/Kg	75 - 125	33.1		16.0		18.4	93		P
Cobalt	mg/Kg	75 - 125	9.76		1.10	J	9.2	94		P
Copper	mg/Kg	75 - 125	17.3		5.06		13.8	89		P
Iron	mg/Kg	75 - 125	3530		3100		140	306		P
Lead	mg/Kg	75 - 125	45.2		4.31		45.9	89		P
Magnesium	mg/Kg	75 - 125	12800		13200		91.8	-451		P
Manganese	mg/Kg	75 - 125	151		142		9.2	91		P
Nickel	mg/Kg	75 - 125	24.8		3.50		22.9	93		P
Potassium	mg/Kg	75 - 125	2080		1410		460	145	N	P
Selenium	mg/Kg	75 - 125	90.0		0.82	U	91.8	98		P
Silver	mg/Kg	75 - 125	3.84		0.21	J	3.4	107		P
Sodium	mg/Kg	75 - 125	568		362		140	147	N	P
Thallium	mg/Kg	75 - 125	85.5		1.65	U	91.8	93		P
Vanadium	mg/Kg	75 - 125	18.3		5.40		13.8	93		P
Zinc	mg/Kg	75 - 125	63.5		50.0		9.2	146		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Solid **sample id:** P4706-01 **client id:** TR-04-110424MS

Percent Solids for Sample: 93.5 **Spiked ID:** P4706-01MS **Percent Solids for Spike Sample:** 93.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.060		0.27	99		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Solid **sample id:** P4706-01 **client id:** TR-04-110424MSD

Percent Solids for Sample: 93.5 **Spiked ID:** P4706-01MSD **Percent Solids for Spike Sample:** 93.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.060		0.28	95		CV

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Water **sample id:** P4718-04 **client id:** WB-307-SWMS

Percent Solids for Sample: NA **Spiked ID:** P4718-04MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1670		389		1000	128	N	P
Antimony	ug/L	75 - 125	562		25.0	U	400	140	N	P
Arsenic	ug/L	75 - 125	549		10.0	U	400	137	N	P
Barium	ug/L	75 - 125	134		34.4	J	100	99		P
Beryllium	ug/L	75 - 125	115		3.00	U	100	115		P
Cadmium	ug/L	75 - 125	87.4		0.19	J	100	87		P
Calcium	ug/L	75 - 125	210000		206000		500	779		P
Chromium	ug/L	75 - 125	157		1.78	J	200	78		P
Cobalt	ug/L	75 - 125	92.0		15.0	U	100	92		P
Copper	ug/L	75 - 125	125		10.0	U	150	83		P
Iron	ug/L	75 - 125	2060		521		1500	102		P
Lead	ug/L	75 - 125	436		6.00	U	500	87		P
Magnesium	ug/L	75 - 125	642000		628000		1000	1362		P
Manganese	ug/L	75 - 125	154		69.7		100	84		P
Nickel	ug/L	75 - 125	221		20.0	U	250	88		P
Potassium	ug/L	75 - 125	394000		425000		5000	-622		P
Selenium	ug/L	75 - 125	1370		10.0	U	1000	137	N	P
Silver	ug/L	75 - 125	65.9		5.00	U	37.5	176	N	P
Sodium	ug/L	75 - 125	4920000	D	5110000	D	1500	-12683		P
Thallium	ug/L	75 - 125	814		20.0	U	1000	81		P
Vanadium	ug/L	75 - 125	145		3.65	J	150	94		P
Zinc	ug/L	75 - 125	177		19.8	J	100	157	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Water **sample id:** P4718-04 **client id:** WB-307-SWMSD

Percent Solids for Sample: NA **Spiked ID:** P4718-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1700		389		1000	131	N	P
Antimony	ug/L	75 - 125	591		25.0	U	400	148	N	P
Arsenic	ug/L	75 - 125	570		10.0	U	400	142	N	P
Barium	ug/L	75 - 125	135		34.4	J	100	101		P
Beryllium	ug/L	75 - 125	114		3.00	U	100	114		P
Cadmium	ug/L	75 - 125	87.0		0.19	J	100	87		P
Calcium	ug/L	75 - 125	212000		206000		500	1340		P
Chromium	ug/L	75 - 125	156		1.78	J	200	77		P
Cobalt	ug/L	75 - 125	91.8		15.0	U	100	92		P
Copper	ug/L	75 - 125	127		10.0	U	150	85		P
Iron	ug/L	75 - 125	2120		521		1500	107		P
Lead	ug/L	75 - 125	434		6.00	U	500	87		P
Magnesium	ug/L	75 - 125	654000		628000		1000	2518		P
Manganese	ug/L	75 - 125	156		69.7		100	86		P
Nickel	ug/L	75 - 125	220		20.0	U	250	88		P
Potassium	ug/L	75 - 125	413000		425000		5000	-248		P
Selenium	ug/L	75 - 125	1430		10.0	U	1000	143	N	P
Silver	ug/L	75 - 125	67.9		5.00	U	37.5	181	N	P
Sodium	ug/L	75 - 125	5190000	D	5110000	D	1500	5649		P
Thallium	ug/L	75 - 125	810		20.0	U	1000	81		P
Vanadium	ug/L	75 - 125	145		3.65	J	150	94		P
Zinc	ug/L	75 - 125	182		19.8	J	100	162	N	P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Water **sample id:** P4791-02 **client id:** HINCHMAN-OILY-WATERMS

Percent Solids for Sample: NA **Spiked ID:** P4791-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.06		0.20	U	4.0	76		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Water **sample id:** P4791-02 **client id:** HINCHMAN-OILY-WATERMSD

Percent Solids for Sample: NA **Spiked ID:** P4791-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.12		0.20	U	4.0	78		CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Solid **Level:** LOW **Client ID:** MIXED-DEMOA

Sample ID: P4699-01 **Spiked ID:** P4699-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Potassium	mg/Kg	75 - 125	1890		1410		410	116		P
Sodium	mg/Kg	75 - 125	522		362		120	133		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Level:** LOW **Client ID:** WB-307-SWA

Sample ID: P4718-04 **Spiked ID:** P4718-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1660		389		10000	13		P
Antimony	ug/L	75 - 125	554		25.0	U	400	138		P
Arsenic	ug/L	75 - 125	539		10.0	U	400	135		P
Selenium	ug/L	75 - 125	1350		10.0	U	1000	135		P
Silver	ug/L	75 - 125	66.6		5.00	U	37.5	178		P
Zinc	ug/L	75 - 125	176		19.8	J	100	156		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Solid **Sample ID:** P4699-01 **Client ID:** MIXED-DEMODUP

Percent Solids for Sample: 99.5 **Duplicate ID** P4699-01DUP **Percent Solids for Spike Sample:** 99.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	3900		4320		10		P
Antimony	mg/Kg	20	0.18	J	0.20	J	11		P
Arsenic	mg/Kg	20	0.81	J	0.95		16		P
Barium	mg/Kg	20	17.9		19.9		11		P
Beryllium	mg/Kg	20	0.17	J	0.19	J	12		P
Cadmium	mg/Kg	20	0.46		0.50		8		P
Calcium	mg/Kg	20	64800		72200		11		P
Chromium	mg/Kg	20	16.0		17.6		10		P
Cobalt	mg/Kg	20	1.10	J	1.20	J	9		P
Copper	mg/Kg	20	5.06		5.57		10		P
Iron	mg/Kg	20	3100		3390		9		P
Lead	mg/Kg	20	4.31		4.87		12		P
Magnesium	mg/Kg	20	13200		14600		10		P
Manganese	mg/Kg	20	142		156		9		P
Nickel	mg/Kg	20	3.50		3.86		10		P
Potassium	mg/Kg	20	1410		1540		9		P
Selenium	mg/Kg	20	0.82	U	0.90	U			P
Silver	mg/Kg	20	0.21	J	0.22	J	3		P
Sodium	mg/Kg	20	362		396		9		P
Thallium	mg/Kg	20	1.65	U	1.79	U			P
Vanadium	mg/Kg	20	5.40		6.06		12		P
Zinc	mg/Kg	20	50.0		53.6		7		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Solid **Sample ID:** P4699-01MS **Client ID:** MIXED-DEMOMSD

Percent Solids for Sample: 99.5 **Duplicate ID** P4699-01MSD **Percent Solids for Spike Sample:** 99.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4160		4550		9		P
Antimony	mg/Kg	20	35.5		37.5		5		P
Arsenic	mg/Kg	20	37.3		39.2		5		P
Barium	mg/Kg	20	26.5		29.0		9		P
Beryllium	mg/Kg	20	8.92		8.59		4		P
Cadmium	mg/Kg	20	8.39		8.98		7		P
Calcium	mg/Kg	20	67400		74000		9		P
Chromium	mg/Kg	20	30.8		33.1		7		P
Cobalt	mg/Kg	20	9.10		9.76		7		P
Copper	mg/Kg	20	16.2		17.3		7		P
Iron	mg/Kg	20	3270		3530		8		P
Lead	mg/Kg	20	42.1		45.2		7		P
Magnesium	mg/Kg	20	13700		12800		7		P
Manganese	mg/Kg	20	152		151		1		P
Nickel	mg/Kg	20	23.1		24.8		7		P
Potassium	mg/Kg	20	1960		2080		6		P
Selenium	mg/Kg	20	86.0		90.0		5		P
Silver	mg/Kg	20	3.61		3.84		6		P
Sodium	mg/Kg	20	538		568		5		P
Thallium	mg/Kg	20	80.8		85.5		6		P
Vanadium	mg/Kg	20	16.8		18.3		9		P
Zinc	mg/Kg	20	58.9		63.5		8		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.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Solid **Sample ID:** P4706-01 **Client ID:** TR-04-110424DUP

Percent Solids for Sample: 93.5 **Duplicate ID** P4706-01DUP **Percent Solids for Spike Sample:** 93.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.060		0.063		5		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.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Solid **Sample ID:** P4706-01MS **Client ID:** TR-04-110424MSD

Percent Solids for Sample: 93.5 **Duplicate ID** P4706-01MSD **Percent Solids for Spike Sample:** 93.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.33		0.33		0		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.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Sample ID:** P4718-04 **Client ID:** WB-307-SWDUP

Percent Solids for Sample: NA **Duplicate ID** P4718-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	389		395		2		P
Antimony	ug/L	20	25.0	U	3.27	J	200.0		P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	34.4	J	33.6	J	2		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	0.19	J	0.22	J	17		P
Calcium	ug/L	20	206000		201000		2		P
Chromium	ug/L	20	1.78	J	1.15	J	43		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	521		511		2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	628000		615000		2		P
Manganese	ug/L	20	69.7		67.9		3		P
Nickel	ug/L	20	20.0	U	20.0	U			P
Potassium	ug/L	20	425000		422000		1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	5110000	D	5150000	D	1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	3.65	J	3.83	J	5		P
Zinc	ug/L	20	19.8	J	19.6	J	1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Sample ID:** P4718-04MS **Client ID:** WB-307-SWMSD

Percent Solids for Sample: NA **Duplicate ID** P4718-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1670		1700		2		P
Antimony	ug/L	20	562		591		5		P
Arsenic	ug/L	20	549		570		4		P
Barium	ug/L	20	134		135		1		P
Beryllium	ug/L	20	115		114		1		P
Cadmium	ug/L	20	87.4		87.0		0		P
Calcium	ug/L	20	210000		212000		1		P
Chromium	ug/L	20	157		156		1		P
Cobalt	ug/L	20	92.0		91.8		0		P
Copper	ug/L	20	125		127		2		P
Iron	ug/L	20	2060		2120		3		P
Lead	ug/L	20	436		434		0		P
Magnesium	ug/L	20	642000		654000		2		P
Manganese	ug/L	20	154		156		1		P
Nickel	ug/L	20	221		220		0		P
Potassium	ug/L	20	394000		413000		5		P
Selenium	ug/L	20	1370		1430		4		P
Silver	ug/L	20	65.9		67.9		3		P
Sodium	ug/L	20	4920000	D	5190000	D	5		P
Thallium	ug/L	20	814		810		0		P
Vanadium	ug/L	20	145		145		0		P
Zinc	ug/L	20	177		182		3		P

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Sample ID:** P4791-02 **Client ID:** HINCHMAN-OILY-WATERDUP

Percent Solids for Sample: NA **Duplicate ID** P4791-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Sample ID:** P4791-02MS **Client ID:** HINCHMAN-OILY-WATERMSD

Percent Solids for Sample: NA **Duplicate ID** P4791-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.06		3.12		2		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164708BS							
Aluminum	mg/Kg	87.7	86.1		98	80 - 120	P
Antimony	mg/Kg	35.1	35.0		100	80 - 120	P
Arsenic	mg/Kg	35.1	35.2		100	80 - 120	P
Barium	mg/Kg	8.8	8.35		95	80 - 120	P
Beryllium	mg/Kg	8.8	8.38		95	80 - 120	P
Cadmium	mg/Kg	8.8	8.06		92	80 - 120	P
Calcium	mg/Kg	43.9	42.6	J	97	80 - 120	P
Chromium	mg/Kg	17.5	16.9		97	80 - 120	P
Cobalt	mg/Kg	8.8	8.20		93	80 - 120	P
Copper	mg/Kg	13.2	13.6		103	80 - 120	P
Iron	mg/Kg	130	122		94	80 - 120	P
Lead	mg/Kg	43.9	41.2		94	80 - 120	P
Magnesium	mg/Kg	87.7	80.4	J	92	80 - 120	P
Manganese	mg/Kg	8.8	8.28		94	80 - 120	P
Nickel	mg/Kg	21.9	20.5		94	80 - 120	P
Potassium	mg/Kg	440	430		98	80 - 120	P
Selenium	mg/Kg	87.7	88.9		101	80 - 120	P
Silver	mg/Kg	3.3	3.20		97	80 - 120	P
Sodium	mg/Kg	130	108		83	80 - 120	P
Thallium	mg/Kg	87.7	94.3		108	80 - 120	P
Vanadium	mg/Kg	13.2	12.7		96	80 - 120	P
Zinc	mg/Kg	8.8	8.80		100	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164759BS							
Aluminum	ug/L	1000	1000		100	80 - 120	P
Antimony	ug/L	400	388		97	80 - 120	P
Arsenic	ug/L	400	387		97	80 - 120	P
Barium	ug/L	100	103		103	80 - 120	P
Beryllium	ug/L	100	103		103	80 - 120	P
Cadmium	ug/L	100	97.8		98	80 - 120	P
Calcium	ug/L	500	521	J	104	80 - 120	P
Chromium	ug/L	200	203		102	80 - 120	P
Cobalt	ug/L	100	99.2		99	80 - 120	P
Copper	ug/L	150	155		103	80 - 120	P
Iron	ug/L	1500	1470		98	80 - 120	P
Lead	ug/L	500	489		98	80 - 120	P
Magnesium	ug/L	1000	1000		100	80 - 120	P
Manganese	ug/L	100	105		105	80 - 120	P
Nickel	ug/L	250	248		99	80 - 120	P
Potassium	ug/L	5000	4690		94	80 - 120	P
Selenium	ug/L	1000	964		96	80 - 120	P
Silver	ug/L	37.5	36.8		98	80 - 120	P
Sodium	ug/L	1500	1360		91	80 - 120	P
Thallium	ug/L	1000	1030		103	80 - 120	P
Vanadium	ug/L	150	154		103	80 - 120	P
Zinc	ug/L	100	103		103	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164762BS							
Mercury	mg/Kg	0.26	0.29		110	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164872BS							
Mercury	ug/L	4.0	3.62		90	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

MIXED-DEMOL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133344 **Lab Sample ID :** P4699-01L **SDG No.:** P4718

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	3900		3880		1		P
Antimony	0.18	J	10.3	U	100.0		P
Arsenic	0.81	J	4.12	U	100.0		P
Barium	17.9		17.6	J	2		P
Beryllium	0.17	J	0.19	J	10		P
Cadmium	0.46		0.33	J	29		P
Calcium	64800		71600		11		P
Chromium	16.0		17.6		10		P
Cobalt	1.10	J	1.05	J	4		P
Copper	5.06		6.04		19		P
Iron	3100		3190		3		P
Lead	4.31		4.37		1		P
Magnesium	13200		13600		3		P
Manganese	142		153		7		P
Nickel	3.50		3.50	J	0		P
Potassium	1410		1300		8		P
Selenium	0.82	U	4.12	U			P
Silver	0.21	J	0.31	J	48		P
Sodium	362		248	J	31		P
Thallium	1.65	U	8.24	U			P
Vanadium	5.40		5.87	J	9		P
Zinc	50.0		48.8		2		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TR-04-110424L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133334 **Lab Sample ID :** P4706-01L **SDG No.:** P4718

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	0.060		0.069	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-307-SWL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133365 **Lab Sample ID :** P4718-04L **SDG No.:** P4718

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	389		281		28		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	34.4	J	250	U	100.0		P
Beryllium	3.00	U	15.0	U			P
Cadmium	0.19	J	15.0	U	100.0		P
Calcium	206000		231000		12		P
Chromium	1.78	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	521		505		3		P
Lead	6.00	U	30.0	U			P
Magnesium	628000		732000		17		P
Manganese	69.7		75.3		8		P
Nickel	20.0	U	100	U			P
Potassium	425000		279000		34		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	5110000	D	5020000	D	2		P
Thallium	20.0	U	100	U			P
Vanadium	3.65	J	100	U	100.0		P
Zinc	19.8	J	15.6	J	21		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

HINCHMAN-OILY-WATERL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133392 **Lab Sample ID :** P4791-02L **SDG No.:** P4718

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133334

Start date: 11/07/2024 **End date:** 11/07/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1417	HG
S0.2	S0.2	1	1419	HG
S2.5	S2.5	1	1421	HG
S5	S5	1	1426	HG
S7.5	S7.5	1	1429	HG
S10	S10	1	1438	HG
ICV74	ICV74	1	1441	HG
ICB74	ICB74	1	1443	HG
CCV47	CCV47	1	1445	HG
CCB47	CCB47	1	1448	HG
CRA	CRA	1	1450	HG
PB164762BL	PB164762BL	1	1457	HG
PB164762BS	PB164762BS	1	1459	HG
P4706-01MS	TR-04-110424MS	1	1508	HG
P4706-01MSD	TR-04-110424MSD	1	1511	HG
CCV48	CCV48	1	1513	HG
CCB48	CCB48	1	1515	HG
P4718-01	WB-307-SB01	1	1522	HG
P4718-02	WB-307-SB02	1	1524	HG
CCV49	CCV49	1	1540	HG
CCB49	CCB49	1	1543	HG
P4706-01DUP	TR-04-110424DUP	1	1601	HG
P4706-01L	TR-04-110424L	5	1603	HG
CCV50	CCV50	1	1608	HG
CCB50	CCB50	1	1610	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133344

Start date: 11/07/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1323	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	1328	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	1332	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	1336	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	1340	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	1345	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	1349	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	1423	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	1438	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	1442	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	1447	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	1451	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	1501	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	1505	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	1553	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	1558	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	1645	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	1649	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	1756	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	1804	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	1832	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	1837	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	1908	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	1912	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	1958	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	2002	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	2058	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	2102	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	2151	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	2155	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4699-01DUP	MIXED-DEMODUP	1	2239	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4699-01L	MIXED-DEMOL	5	2243	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4699-01MS	MIXED-DEMOMS	1	2247	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	2252	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	2256	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4699-01MSD	MIXED-DEMOMSD	1	2300	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4699-01A	MIXED-DEMOA	1	2304	K,Na
P4718-01	WB-307-SB01	1	2326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-02	WB-307-SB02	1	2330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164708BL	PB164708BL	1	2338	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	2343	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.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133344

Start date: 11/07/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB11	CCB11	1	2347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164708BS	PB164708BS	1	2351	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	0039	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	0043	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	0057	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	0101	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.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133365

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1334	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	1338	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	1343	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	1347	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	1351	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	1355	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	1359	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	1411	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	1416	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	1420	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	1424	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	1430	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	1444	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	1450	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	1529	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	1533	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	1623	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	1628	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	1716	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	1722	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	1804	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	1808	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	1855	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	1859	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-04	WB-307-SW	1	1942	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1947	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	1951	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-04DUP	WB-307-SWDUP	1	1955	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-04L	WB-307-SWL	5	2000	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-04MS	WB-307-SWMS	1	2004	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-04MSD	WB-307-SWMSD	1	2009	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-04A	WB-307-SWA	1	2014	Ag,Al,As,Sb,Se,Zn
CCV08	CCV08	1	2048	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	2057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4718-04	WB-307-SW	10	2118	Na
P4718-04DUP	WB-307-SWDUP	10	2123	Na
P4718-04L	WB-307-SWL	50	2127	Na
P4718-04MS	WB-307-SWMS	10	2131	Na
P4718-04MSD	WB-307-SWMSD	10	2136	Na
CCV09	CCV09	1	2150	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	2155	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.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133365

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV10	CCV10	1	2324	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	2335	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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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133392

Start date: 11/11/2024 **End date:** 11/11/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1336	HG
S0.2	S0.2	1	1341	HG
S2.5	S2.5	1	1344	HG
S5	S5	1	1346	HG
S7.5	S7.5	1	1353	HG
S10	S10	1	1355	HG
ICV80	ICV80	1	1358	HG
ICB80	ICB80	1	1401	HG
CCV64	CCV64	1	1403	HG
CCB64	CCB64	1	1405	HG
CRA	CRA	1	1410	HG
PB164872BL	PB164872BL	1	1420	HG
PB164872BS	PB164872BS	1	1422	HG
P4718-04	WB-307-SW	1	1424	HG
P4791-02DUP	HINCHMAN-OILY-WATERDU	1	1431	HG
P4791-02MS	HINCHMAN-OILY-WATERMS	1	1433	HG
CCV65	CCV65	1	1436	HG
CCB65	CCB65	1	1441	HG
P4791-02MSD	HINCHMAN-OILY-WATERMS	1	1443	HG
P4791-02L	HINCHMAN-OILY-WATERL	5	1450	HG
CCV66	CCV66	1	1454	HG
CCB66	CCB66	1	1457	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.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133524

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	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	1100	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	1104	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	1108	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	1113	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	1117	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	1125	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	1134	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	1138	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	1143	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	1147	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	1151	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	1243	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	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164759BL	PB164759BL	1	1300	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164759BS	PB164759BS	1	1305	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	1334	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	1338	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	1424	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	1428	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	1531	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	1536	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	1618	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	1622	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	1719	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	1724	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	1801	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	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP ICP Metals	6010D		11/07/24	11/19/24	
			TCLP Mercury	7470A		11/07/24	11/08/24	
P4718-04	**WB-307-SW**	**Water**			**11/04/24**			**11/05/24**
			Mercury	7470A		11/11/24	11/11/24	
			Metals ICP-TAL	6010D		11/07/24	11/08/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164708**						
P4699-01DUP	MIXED-DEMODUP	DUP	SOLID	11/06/2024	2.24	100.0	99.50
P4699-01MS	MIXED-DEMOMS	MS	SOLID	11/06/2024	2.35	100.0	99.50
P4699-01MSD	MIXED-DEMOMSD	MSD	SOLID	11/06/2024	2.19	100.0	99.50
P4718-01	WB-307-SB01	SAM	SOLID	11/06/2024	2.30	100.0	78.00
P4718-02	WB-307-SB02	SAM	SOLID	11/06/2024	2.44	100.0	77.60
PB164708BL	PB164708BL	MB	SOLID	11/06/2024	2.28	100.0	100.00
PB164708BS	PB164708BS	LCS	SOLID	11/06/2024	2.28	100.0	100.00

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164759**						
P4718-04	WB-307-SW	SAM	WATER	11/07/2024	50.0	25.0	
P4718-04DUP	WB-307-SWDUP	DUP	WATER	11/07/2024	50.0	25.0	
P4718-04MS	WB-307-SWMS	MS	WATER	11/07/2024	50.0	25.0	
P4718-04MSD	WB-307-SWMSD	MSD	WATER	11/07/2024	50.0	25.0	
PB164759BL	PB164759BL	MB	WATER	11/07/2024	50.0	25.0	
PB164759BS	PB164759BS	LCS	WATER	11/07/2024	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164762**						
P4706-01DUP	TR-04-110424DUP	DUP	SOLID	11/07/2024	0.58	35.0	93.50
P4706-01MS	TR-04-110424MS	MS	SOLID	11/07/2024	0.55	35.0	93.50
P4706-01MSD	TR-04-110424MSD	MSD	SOLID	11/07/2024	0.53	35.0	93.50
P4718-01	WB-307-SB01	SAM	SOLID	11/07/2024	0.58	35.0	78.00
P4718-02	WB-307-SB02	SAM	SOLID	11/07/2024	0.55	35.0	77.60
PB164762BL	PB164762BL	MB	SOLID	11/07/2024	0.52	35.0	100.00
PB164762BS	PB164762BS	LCS	SOLID	11/07/2024	0.54	35.0	100.00

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164872**						
P4718-04	WB-307-SW	SAM	WATER	11/11/2024	30.0	30.0	
P4791-02DUP	HINCHMAN-OILY-WATERDUP	DUP	WATER	11/11/2024	30.0	30.0	
P4791-02MS	HINCHMAN-OILY-WATERMS	MS	WATER	11/11/2024	30.0	30.0	
P4791-02MSD	HINCHMAN-OILY-WATERMSD	MSD	WATER	11/11/2024	30.0	30.0	
PB164872BL	PB164872BL	MB	WATER	11/11/2024	30.0	30.0	
PB164872BS	PB164872BS	LCS	WATER	11/11/2024	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133334

Review By	jaswal	Review On	11/7/2024 10:00:18 PM
Supervise By	mohan	Supervise On	11/7/2024 10:01:48 PM

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83120

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/07/24 14:17		Mohan	OK
2	S0.2	S0.2	CAL2	11/07/24 14:19		Mohan	OK
3	S2.5	S2.5	CAL3	11/07/24 14:21		Mohan	OK
4	S5	S5	CAL4	11/07/24 14:26		Mohan	OK
5	S7.5	S7.5	CAL5	11/07/24 14:29		Mohan	OK
6	S10	S10	CAL6	11/07/24 14:38		Mohan	OK
7	ICV74	ICV74	ICV	11/07/24 14:41		Mohan	OK
8	ICB74	ICB74	ICB	11/07/24 14:43		Mohan	OK
9	CCV47	CCV47	CCV	11/07/24 14:45		Mohan	OK
10	CCB47	CCB47	CCB	11/07/24 14:48		Mohan	OK
11	CRA	CRA	CRDL	11/07/24 14:50		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/07/24 14:52		Mohan	OK
13	ChkStd	ChkStd	SAM	11/07/24 14:54		Mohan	OK
14	PB164762BL	PB164762BL	MB	11/07/24 14:57		Mohan	OK
15	PB164762BS	PB164762BS	LCS	11/07/24 14:59		Mohan	OK
16	P4662-06	102524-D	SAM	11/07/24 15:01		Mohan	OK
17	P4706-01	TR-04-110424	SAM	11/07/24 15:04		Mohan	OK
18	P4706-01MS	TR-04-110424MS	MS	11/07/24 15:08		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133334

Review By	jaswal	Review On	11/7/2024 10:00:18 PM
Supervise By	mohan	Supervise On	11/7/2024 10:01:48 PM

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83120

19	P4706-01MSD	TR-04-110424MSD	MSD	11/07/24 15:11		Mohan	OK
20	CCV48	CCV48	CCV	11/07/24 15:13		Mohan	OK
21	CCB48	CCB48	CCB	11/07/24 15:15		Mohan	OK
22	P4707-01	HD-02-110424	SAM	11/07/24 15:18		Mohan	OK
23	P4708-01	OR-02-110424	SAM	11/07/24 15:20		Mohan	OK
24	P4718-01	WB-307-SB01	SAM	11/07/24 15:22		Mohan	OK
25	P4718-02	WB-307-SB02	SAM	11/07/24 15:24		Mohan	OK
26	P4719-01	BAYAVE-STOCKPILE	SAM	11/07/24 15:27		Mohan	OK
27	P4720-01	JC-701-COMP-01	SAM	11/07/24 15:29		Mohan	OK
28	P4722-03	WC-1(0-6)	SAM	11/07/24 15:31		Mohan	OK
29	P4722-08	WC-2(0-6)	SAM	11/07/24 15:34		Mohan	OK
30	P4722-13	WC-3(0-6)	SAM	11/07/24 15:36		Mohan	OK
31	P4732-01	PPE-COMP	SAM	11/07/24 15:38		Mohan	OK
32	CCV49	CCV49	CCV	11/07/24 15:40		Mohan	OK
33	CCB49	CCB49	CCB	11/07/24 15:43		Mohan	OK
34	P4734-01	EO-03-11062024	SAM	11/07/24 15:45		Mohan	OK
35	P4737-01	TP2	SAM	11/07/24 15:47		Mohan	OK
36	P4738-01	72-12018	SAM	11/07/24 15:49		Mohan	OK
37	P4739-01	TP-14	SAM	11/07/24 15:52		Mohan	OK
38	P4739-05	BP-G2	SAM	11/07/24 15:54		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133334

Review By	jaswal	Review On	11/7/2024 10:00:18 PM
Supervise By	mohan	Supervise On	11/7/2024 10:01:48 PM

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83120

39	P4739-09	BP-B2	SAM	11/07/24 15:56		Mohan	OK
40	P4739-13	TP-11	SAM	11/07/24 15:59		Mohan	OK
41	P4706-01DUP	TR-04-110424DUP	DUP	11/07/24 16:01		Mohan	OK
42	P4706-01L	TR-04-110424L	SD	11/07/24 16:03		Mohan	OK
43	P4706-01A	TR-04-110424A	PS	11/07/24 16:05		Mohan	OK
44	CCV50	CCV50	CCV	11/07/24 16:08		Mohan	OK
45	CCB50	CCB50	CCB	11/07/24 16:10		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/07/24 13:23		Kareem	OK
2	S1	S1	CAL2	11/07/24 13:28		Kareem	OK
3	S2	S2	CAL3	11/07/24 13:32		Kareem	OK
4	S3	S3	CAL4	11/07/24 13:36		Kareem	OK
5	S4	S4	CAL5	11/07/24 13:40		Kareem	OK
6	S5	S5	CAL6	11/07/24 13:45		Kareem	OK
7	ICV01	ICV01	ICV	11/07/24 13:49		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/07/24 14:23		Kareem	OK
9	ICB01	ICB01	ICB	11/07/24 14:38		Kareem	OK
10	CRI01	CRI01	CRDL	11/07/24 14:42		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/07/24 14:47		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/07/24 14:51		Kareem	OK
13	CCV01	CCV01	CCV	11/07/24 15:01		Kareem	OK
14	CCB01	CCB01	CCB	11/07/24 15:05		Kareem	OK
15	P4645-04	Z-02-WC	SAM	11/07/24 15:09		Kareem	OK
16	P4659-04	MH-2	SAM	11/07/24 15:14		Kareem	OK
17	P4660-03	WC-TA2-01-C	SAM	11/07/24 15:18		Kareem	OK
18	P4660-07	WC-WOOD-01-C	SAM	11/07/24 15:22		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

19	P4660-11	WC-CONCRETE-01-(	SAM	11/07/24 15:27		Kareem	OK
20	P4667-04	BP-F-6	SAM	11/07/24 15:31		Kareem	OK
21	P4667-08	BP-F-5	SAM	11/07/24 15:36		Kareem	OK
22	P4667-12	TP-10	SAM	11/07/24 15:40		Kareem	OK
23	P4667-16	BP-F-7	SAM	11/07/24 15:45		Kareem	OK
24	P4679-04	MH-1	SAM	11/07/24 15:49		Kareem	OK
25	CCV02	CCV02	CCV	11/07/24 15:53		Kareem	OK
26	CCB02	CCB02	CCB	11/07/24 15:58		Kareem	OK
27	P4680-04	BP-F26	SAM	11/07/24 16:02		Kareem	OK
28	P4680-08	BP-F25	SAM	11/07/24 16:06		Kareem	OK
29	P4684-01	MECHANIC-ST-SWEI	SAM	11/07/24 16:11		Kareem	OK
30	P4684-01DUP	MECHANIC-ST-SWEI	DUP	11/07/24 16:15		Kareem	OK
31	P4684-01L	MECHANIC-ST-SWEI	SD	11/07/24 16:20		Kareem	OK
32	P4684-01MS	MECHANIC-ST-SWEI	MS	11/07/24 16:24	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
33	P4684-01MSD	MECHANIC-ST-SWEI	MSD	11/07/24 16:28	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
34	P4684-01A	MECHANIC-ST-SWEI	PS	11/07/24 16:32	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
35	PB164560TB	PB164560TB	MB	11/07/24 16:36		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133344

Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

36	PB164665BL	PB164665BL	MB	11/07/24 16:41		Kareem	OK
37	CCV03	CCV03	CCV	11/07/24 16:45		Kareem	OK
38	CCB03	CCB03	CCB	11/07/24 16:49		Kareem	OK
39	PB164665BS	PB164665BS	LCS	11/07/24 16:54	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
40	P4693-04	BP-G5-WC	SAM	11/07/24 16:58		Kareem	OK
41	P4693-08	BP-G4-WC	SAM	11/07/24 17:02		Kareem	OK
42	P4694-04	Z-03A	SAM	11/07/24 17:06		Kareem	OK
43	P4694-08	Z-04	SAM	11/07/24 17:11		Kareem	OK
44	P4695-04	Z-01	SAM	11/07/24 17:15		Kareem	OK
45	P4700-04	MH-8	SAM	11/07/24 17:20		Kareem	OK
46	P4701-01	BP-F3	SAM	11/07/24 17:24		Kareem	OK
47	P4701-08	BP-F4	SAM	11/07/24 17:29		Kareem	OK
48	P4711-05	CF-613-COMP-16	SAM	11/07/24 17:33		Kareem	OK
49	CCV04	CCV04	CCV	11/07/24 17:56		Kareem	OK
50	CCB04	CCB04	CCB	11/07/24 18:04		Kareem	OK
51	P4711-10	CF-613-COMP-17	SAM	11/07/24 18:08		Kareem	OK
52	P4702-01	TOTE-1	SAM	11/07/24 18:13		Kareem	OK
53	P4662-06DL2	102524-DDL2	SAM	11/07/24 18:17	NOT USE	Kareem	Not Ok
54	P4662-06DL	102524-DDL	SAM	11/07/24 18:22	NOT USE	Kareem	Not Ok

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Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

55	P4662-06	102524-D	SAM	11/07/24 18:28		Kareem	OK
56	CCV05	CCV05	CCV	11/07/24 18:32		Kareem	OK
57	CCB05	CCB05	CCB	11/07/24 18:37		Kareem	OK
58	P4702-01DUP	TOTE-1DUP	DUP	11/07/24 18:43		Kareem	OK
59	P4702-01L	TOTE-1L	SD	11/07/24 18:47		Kareem	OK
60	P4706-01	TR-04-110424	SAM	11/07/24 18:51		Kareem	OK
61	P4708-01	OR-02-110424	SAM	11/07/24 18:56		Kareem	OK
62	P4711-01	CF-613-COMP-16	SAM	11/07/24 19:00		Kareem	OK
63	P4711-06	CF-613-COMP-17	SAM	11/07/24 19:04		Kareem	OK
64	CCV06	CCV06	CCV	11/07/24 19:08		Kareem	OK
65	CCB06	CCB06	CCB	11/07/24 19:12		Kareem	OK
66	P4702-01MS	TOTE-1MS	MS	11/07/24 19:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
67	P4702-01MSD	TOTE-1MSD	MSD	11/07/24 19:20	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
68	P4702-01A	TOTE-1A	PS	11/07/24 19:24	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
69	PB164662TB	PB164662TB	MB	11/07/24 19:28		Kareem	OK
70	PB164685TB	PB164685TB	MB	11/07/24 19:32		Kareem	OK
71	PB164712BL	PB164712BL	MB	11/07/24 19:37		Kareem	OK

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Review By	mohan	Review On	11/9/2024 12:07:42 AM
Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

72	PB164712BS	PB164712BS	LCS	11/07/24 19:41	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
73	P4720-01	JC-701-COMP-01	SAM	11/07/24 19:45		Kareem	OK
74	P4720-01DUP	JC-701-COMP-01DUP	DUP	11/07/24 19:50		Kareem	OK
75	P4720-01L	JC-701-COMP-01L	SD	11/07/24 19:54		Kareem	OK
76	CCV07	CCV07	CCV	11/07/24 19:58		Kareem	OK
77	CCB07	CCB07	CCB	11/07/24 20:02		Kareem	OK
78	P4617-04	CONCRETE-PILE	SAM	11/07/24 20:08		Kareem	OK
79	P4617-04DUP	CONCRETE-PILEDUP	DUP	11/07/24 20:12		Kareem	OK
80	P4617-04L	CONCRETE-PILEL	SD	11/07/24 20:17		Kareem	OK
81	P4617-04MS	CONCRETE-PILEMS	MS	11/07/24 20:21	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
82	P4617-04MSD	CONCRETE-PILEMSD	MSD	11/07/24 20:25	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
83	P4549-04	TT-069-IDWGW-2024	SAM	11/07/24 20:34		Kareem	OK
84	P4617-04A	CONCRETE-PILEA	PS	11/07/24 20:41	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
85	P4549-04DUP	TT-069-IDWGW-2024	DUP	11/07/24 20:45		Kareem	OK
86	P4549-04L	TT-069-IDWGW-2024	SD	11/07/24 20:49		Kareem	OK
87	P4549-04MS	TT-069-IDWGW-2024	MS	11/07/24 20:54	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

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ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

88	CCV08	CCV08	CCV	11/07/24 20:58		Kareem	OK
89	CCB08	CCB08	CCB	11/07/24 21:02		Kareem	OK
90	P4549-04MSD	TT-069-IDWGW-2024	MSD	11/07/24 21:08	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
91	P4549-04A	TT-069-IDWGW-2024	PS	11/07/24 21:12	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
92	P4720-01MS	JC-701-COMP-01MS	MS	11/07/24 21:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
93	P4720-01MSD	JC-701-COMP-01MSI	MSD	11/07/24 21:20	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
94	P4720-01A	JC-701-COMP-01A	PS	11/07/24 21:24	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
95	P4722-03	WC-1(0-6)	SAM	11/07/24 21:29	Fe high	Kareem	Dilution
96	P4722-08	WC-2(0-6)	SAM	11/07/24 21:33		Kareem	OK
97	P4722-13	WC-3(0-6)	SAM	11/07/24 21:38		Kareem	OK
98	PB164723BL	PB164723BL	MB	11/07/24 21:42		Kareem	OK
99	PB164723BS	PB164723BS	LCS	11/07/24 21:47	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
100	CCV09	CCV09	CCV	11/07/24 21:51		Kareem	OK
101	CCB09	CCB09	CCB	11/07/24 21:55		Kareem	OK
102	P4693-01	BP-G5-WC	SAM	11/07/24 22:09		Kareem	OK

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Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

STD. NAME	STD REF.#
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ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

103	P4693-05	BP-G4-WC	SAM	11/07/24 22:13		Kareem	OK
104	P4694-01	Z-03A	SAM	11/07/24 22:17		Kareem	OK
105	P4694-05	Z-04	SAM	11/07/24 22:22		Kareem	OK
106	P4695-01	Z-01	SAM	11/07/24 22:26		Kareem	OK
107	P4697-01	TP-1	SAM	11/07/24 22:30		Kareem	OK
108	P4699-01	MIXED-DEMO	SAM	11/07/24 22:34		Kareem	OK
109	P4699-01DUP	MIXED-DEMODUP	DUP	11/07/24 22:39		Kareem	OK
110	P4699-01L	MIXED-DEMOL	SD	11/07/24 22:43		Kareem	OK
111	P4699-01MS	MIXED-DEMOMS	MS	11/07/24 22:47	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
112	CCV10	CCV10	CCV	11/07/24 22:52		Kareem	OK
113	CCB10	CCB10	CCB	11/07/24 22:56		Kareem	OK
114	P4699-01MSD	MIXED-DEMOMSD	MSD	11/07/24 23:00	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
115	P4699-01A	MIXED-DEMOA	PS	11/07/24 23:04	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
116	P4700-01	MH-8	SAM	11/07/24 23:09		Kareem	OK
117	P4701-01RE	BP-F3RE	SAM	11/07/24 23:13	NOT USE	Kareem	Not Ok
118	P4701-05	BP-F4	SAM	11/07/24 23:17		Kareem	OK
119	P4707-01	HD-02-110424	SAM	11/07/24 23:22		Kareem	OK

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Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

120	P4718-01	WB-307-SB01	SAM	11/07/24 23:26		Kareem	OK
121	P4718-02	WB-307-SB02	SAM	11/07/24 23:30		Kareem	OK
122	P4719-01	BAYAVE-STOCKPILE	SAM	11/07/24 23:34		Kareem	OK
123	PB164708BL	PB164708BL	MB	11/07/24 23:38		Kareem	OK
124	CCV11	CCV11	CCV	11/07/24 23:43		Kareem	OK
125	CCB11	CCB11	CCB	11/07/24 23:47		Kareem	OK
126	PB164708BS	PB164708BS	LCS	11/07/24 23:51	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
127	PB164563BL	PB164563BL	MB	11/07/24 23:55		Kareem	OK
128	PB164563BS	PB164563BS	LCS	11/08/24 00:05	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
129	PB164634BL	PB164634BL	MB	11/08/24 00:08		Kareem	OK
130	PB164634BS	PB164634BS	LCS	11/08/24 00:13	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
131	PB164647BL	PB164647BL	MB	11/08/24 00:17		Kareem	OK
132	PB164647BS	PB164647BS	LCS	11/08/24 00:21	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
133	P4722-03DL	WC-1(0-6)DL	SAM	11/08/24 00:26	5x for Fe	Kareem	Confirms
134	LR1	LR1	HIGH STD	11/08/24 00:30		Kareem	OK
135	LR2	LR2	HIGH STD	11/08/24 00:35		Kareem	OK

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Supervise By	kareem	Supervise On	11/13/2024 7:36:39 PM

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ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091 MP83092

136	CCV12	CCV12	CCV	11/08/24 00:39		Kareem	OK
137	CCB12	CCB12	CCB	11/08/24 00:43		Kareem	OK
138	P4701-01DL	BP-F3DL	SAM	11/08/24 00:48	NOT USE	Kareem	Not Ok
139	CCV13	CCV13	CCV	11/08/24 00:57		Kareem	OK
140	CCB13	CCB13	CCB	11/08/24 01:01		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/08/24 13:34		Kareem	OK
2	S1	S1	CAL2	11/08/24 13:38		Kareem	OK
3	S2	S2	CAL3	11/08/24 13:43		Kareem	OK
4	S3	S3	CAL4	11/08/24 13:47		Kareem	OK
5	S4	S4	CAL5	11/08/24 13:51		Kareem	OK
6	S5	S5	CAL6	11/08/24 13:55		Kareem	OK
7	ICV01	ICV01	ICV	11/08/24 13:59	ICV fail for Na (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	11/08/24 14:11		Kareem	OK
9	ICB01	ICB01	ICB	11/08/24 14:16		Kareem	OK
10	CRI01	CRI01	CRDL	11/08/24 14:20		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/08/24 14:24		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/08/24 14:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	11/08/24 14:35		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	11/08/24 14:40		Kareem	OK
15	CCV01	CCV01	CCV	11/08/24 14:44		Kareem	OK
16	CCB01	CCB01	CCB	11/08/24 14:50		Kareem	OK
17	P4578-04DL	WB-305-TOP-1DL	SAM	11/08/24 14:55	5x for Cr	Kareem	Confirms
18	P4719-03	BAYAVE-STOCKPILE	SAM	11/08/24 14:59		Kareem	OK

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Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4720-05	JC-701-COMP-01	SAM	11/08/24 15:03		Kareem	OK
20	P4734-01	EO-03-11062024	SAM	11/08/24 15:07		Kareem	OK
21	P4757-01	001-WILLETS-PT-BL	SAM	11/08/24 15:12		Kareem	OK
22	P4757-02	002-35TH-AVE(SEP)	SAM	11/08/24 15:16		Kareem	OK
23	P4757-03	001-WILLETS-PT-BL	SAM	11/08/24 15:20		Kareem	OK
24	P4757-04	002-35TH-AVE(OCT)	SAM	11/08/24 15:25		Kareem	OK
25	CCV02	CCV02	CCV	11/08/24 15:29		Kareem	OK
26	CCB02	CCB02	CCB	11/08/24 15:33		Kareem	OK
27	P4718-03	WB-307-SB02	SAM	11/08/24 15:39	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
28	P4718-03DUP	WB-307-SB02DUP	DUP	11/08/24 15:44	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
29	P4718-03L	WB-307-SB02L	SD	11/08/24 15:48	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
30	P4718-03MS	WB-307-SB02MS	MS	11/08/24 15:52	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
31	P4718-03MSD	WB-307-SB02MSD	MSD	11/08/24 15:57	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
32	P4718-03A	WB-307-SB02A	PS	11/08/24 16:01	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
33	P4722-04	WC-1(0-6)	SAM	11/08/24 16:06		Kareem	OK
34	P4722-09	WC-2(0-6)	SAM	11/08/24 16:10		Kareem	OK
35	P4722-14	WC-3(0-6)	SAM	11/08/24 16:15		Kareem	OK
36	P4732-02	PPE-COMP	SAM	11/08/24 16:19		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

37	CCV03	CCV03	CCV	11/08/24 16:23		Kareem	OK
38	CCB03	CCB03	CCB	11/08/24 16:28		Kareem	OK
39	P4738-02	72-12018	SAM	11/08/24 16:32		Kareem	OK
40	P4739-04	TP-14	SAM	11/08/24 16:36		Kareem	OK
41	P4739-08	BP-G2	SAM	11/08/24 16:41		Kareem	OK
42	P4739-12	BP-B2	SAM	11/08/24 16:45		Kareem	OK
43	P4739-16	TP-11	SAM	11/08/24 16:50		Kareem	OK
44	PB164694TB	PB164694TB	MB	11/08/24 16:54		Kareem	OK
45	PB164768BL	PB164768BL	MB	11/08/24 16:59		Kareem	OK
46	PB164768BS	PB164768BS	LCS	11/08/24 17:03	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
47	P4762-02	EFF-WW	SAM	11/08/24 17:07		Kareem	OK
48	P4762-02DUP	EFF-WWDUP	DUP	11/08/24 17:11		Kareem	OK
49	CCV04	CCV04	CCV	11/08/24 17:16		Kareem	OK
50	CCB04	CCB04	CCB	11/08/24 17:22		Kareem	OK
51	P4762-02L	EFF-WWL	SD	11/08/24 17:26		Kareem	OK
52	P4762-02MS	EFF-WWMS	MS	11/08/24 17:31	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
53	P4762-02MSD	EFF-WWMSD	MSD	11/08/24 17:35	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

54	P4762-02A	EFF-WWA	PS	11/08/24 17:39	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
55	PB164782BL	PB164782BL	MB	11/08/24 17:43		Kareem	OK
56	PB164782BS	PB164782BS	LCS	11/08/24 17:47	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
57	P4732-01	PPE-COMP	SAM	11/08/24 17:51		Kareem	OK
58	P4737-01	TP2	SAM	11/08/24 17:55		Kareem	OK
59	P4738-01	72-12018	SAM	11/08/24 18:00		Kareem	OK
60	CCV05	CCV05	CCV	11/08/24 18:04		Kareem	OK
61	CCB05	CCB05	CCB	11/08/24 18:08		Kareem	OK
62	P4739-01	TP-14	SAM	11/08/24 18:13		Kareem	OK
63	P4739-05	BP-G2	SAM	11/08/24 18:17		Kareem	OK
64	P4739-09	BP-B2	SAM	11/08/24 18:21		Kareem	OK
65	P4739-13	TP-11	SAM	11/08/24 18:26		Kareem	OK
66	P4739-13DUP	TP-11DUP	DUP	11/08/24 18:30		Kareem	OK
67	P4739-13L	TP-11L	SD	11/08/24 18:34		Kareem	OK
68	P4739-13MS	TP-11MS	MS	11/08/24 18:38	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
69	P4739-13MSD	TP-11MSD	MSD	11/08/24 18:42	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

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Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

70	P4739-13A	TP-11A	PS	11/08/24 18:47	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
71	PB164757BL	PB164757BL	MB	11/08/24 18:51		Kareem	OK
72	CCV06	CCV06	CCV	11/08/24 18:55		Kareem	OK
73	CCB06	CCB06	CCB	11/08/24 18:59		Kareem	OK
74	PB164757BS	PB164757BS	LCS	11/08/24 19:03	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
75	P4733-01	402	SAM	11/08/24 19:08		Kareem	OK
76	P4733-01DUP	402DUP	DUP	11/08/24 19:12		Kareem	OK
77	P4733-01L	402L	SD	11/08/24 19:17		Kareem	OK
78	P4733-01MS	402MS	MS	11/08/24 19:21	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
79	P4733-01MSD	402MSD	MSD	11/08/24 19:25	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
80	P4733-01A	402A	PS	11/08/24 19:29	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
81	PB164758BL	PB164758BL	MB	11/08/24 19:34		Kareem	OK
82	PB164758BS	PB164758BS	LCS	11/08/24 19:38	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
83	P4718-04	WB-307-SW	SAM	11/08/24 19:42	Na (Oversaturated)	Kareem	Dilution
84	CCV07	CCV07	CCV	11/08/24 19:47		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

85	CCB07	CCB07	CCB	11/08/24 19:51		Kareem	OK
86	P4718-04DUP	WB-307-SWDUP	DUP	11/08/24 19:55	Na (Oversaturated)	Kareem	Dilution
87	P4718-04L	WB-307-SWL	SD	11/08/24 20:00	Na high	Kareem	Dilution
88	P4718-04MS	WB-307-SWMS	MS	11/08/24 20:04	Na (Oversaturated)	Kareem	Dilution
89	P4718-04MSD	WB-307-SWMSD	MSD	11/08/24 20:09	Na (Oversaturated)	Kareem	Dilution
90	P4718-04A	WB-307-SWA	PS	11/08/24 20:14	Na (Oversaturated)	Kareem	Dilution
91	P4736-02	COMP	SAM	11/08/24 20:18		Kareem	OK
92	PB164759BL	PB164759BL	MB	11/08/24 20:22	NOT USE	Kareem	Not Ok
93	PB164759BS	PB164759BS	LCS	11/08/24 20:27	NOT USE	Kareem	Not Ok
94	LR1	LR1	HIGH STD	11/08/24 20:38		Kareem	OK
95	LR2	LR2	HIGH STD	11/08/24 20:42		Kareem	OK
96	CCV08	CCV08	CCV	11/08/24 20:48		Kareem	OK
97	CCB08	CCB08	CCB	11/08/24 20:57		Kareem	OK
98	PB164646BL	PB164646BL	MB	11/08/24 21:02		Kareem	OK
99	PB164646BS	PB164646BS	LCS	11/08/24 21:06		Kareem	OK
100	PB164645BL	PB164645BL	MB	11/08/24 21:10	NOT USE	Kareem	Not Ok
101	PB164645BS	PB164645BS	LCS	11/08/24 21:14	NOT USE	Kareem	Not Ok
102	P4718-04DL	WB-307-SWDL	SAM	11/08/24 21:18	10x for Na	Kareem	Confirms
103	P4718-04DUPDL	WB-307-SWDUPDL	DUP	11/08/24 21:23	10x for Na	Kareem	Confirms
104	P4718-04LDL	WB-307-SWLDL	SD	11/08/24 21:27	50x for Na	Kareem	Confirms

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Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

105	P4718-04MSDL	WB-307-SWMSDL	MS	11/08/24 21:31	10x for Na	Kareem	Confirms
106	P4718-04MSDDL	WB-307-SWMSDDL	MSD	11/08/24 21:36	10x for Na	Kareem	Confirms
107	P4718-04ADL	WB-307-SWADL	PS	11/08/24 21:40	10x for Na	Kareem	Confirms
108	CCV09	CCV09	CCV	11/08/24 21:50		Kareem	OK
109	CCB09	CCB09	CCB	11/08/24 21:55		Kareem	OK
110	P4681-01	Q4-WW	SAM	11/08/24 21:59	NOT USE	Kareem	Not Ok
111	P4681-01DL	Q4-WWDL	SAM	11/08/24 22:24	Straight 25x Dilution for all elements	Kareem	OK
112	P4681-01DUPDL	Q4-WWDUPDL	DUP	11/08/24 22:29	Straight 25x Dilution for all elements	Kareem	OK
113	P4681-01LDL	Q4-WWLDL	SD	11/08/24 22:33	Straight 125x Dilution for all elements	Kareem	OK
114	P4681-01MSDL	Q4-WWMSDL	MS	11/08/24 22:44	Straight 25x Dilution for all elements	Kareem	OK
115	P4681-01MSDDL	Q4-WWMSDDL	MSD	11/08/24 22:53	Straight 25x Dilution for all elements	Kareem	OK
116	P4681-01ADL	Q4-WWADL	PS	11/08/24 23:07	Straight 25x Dilution for all elements	Kareem	OK
117	CCV10	CCV10	CCV	11/08/24 23:24		Kareem	OK
118	CCB10	CCB10	CCB	11/08/24 23:35		Kareem	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133392

Review By	jaswal	Review On	11/11/2024 9:30:43 PM
Supervise By	mohan	Supervise On	11/11/2024 9:32:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP83192,MP83193,MP83194,MP83195,MP83196,MP831MP831MP831MP831MP831MP8317
ICV Standard	MP83198
CCV Standard	MP83200
ICSA Standard	
CRI Standard	MP83202
LCS Standard	
Chk Standard	MP83199,MP83201,MP83203,MP83205

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/11/24 13:36		mohan	OK
2	S0.2	S0.2	CAL2	11/11/24 13:41		mohan	OK
3	S2.5	S2.5	CAL3	11/11/24 13:44		mohan	OK
4	S5	S5	CAL4	11/11/24 13:46		mohan	OK
5	S7.5	S7.5	CAL5	11/11/24 13:53		mohan	OK
6	S10	S10	CAL6	11/11/24 13:55		mohan	OK
7	ICV80	ICV80	ICV	11/11/24 13:58		mohan	OK
8	ICB80	ICB80	ICB	11/11/24 14:01		mohan	OK
9	CCV64	CCV64	CCV	11/11/24 14:03		mohan	OK
10	CCB64	CCB64	CCB	11/11/24 14:05		mohan	OK
11	CRA	CRA	CRDL	11/11/24 14:10		mohan	OK
12	HighStd	HighStd	HIGH STD	11/11/24 14:13		mohan	OK
13	ChkStd	ChkStd	SAM	11/11/24 14:15		mohan	OK
14	PB164872BL	PB164872BL	MB	11/11/24 14:20		mohan	OK
15	PB164872BS	PB164872BS	LCS	11/11/24 14:22		mohan	OK
16	P4718-04	WB-307-SW	SAM	11/11/24 14:24		mohan	OK
17	P4736-02	COMP	SAM	11/11/24 14:26		mohan	OK
18	P4791-02	HINCHMAN-OILY-WA	SAM	11/11/24 14:29		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133392

Review By	jaswal	Review On	11/11/2024 9:30:43 PM
Supervise By	mohan	Supervise On	11/11/2024 9:32:23 PM

STD. NAME	STD REF.#
ICAL Standard	MP83192,MP83193,MP83194,MP83195,MP83196,MP831MP831MP831MP831MP831MP8317
ICV Standard	MP83198
CCV Standard	MP83200
ICSA Standard	
CRI Standard	MP83202
LCS Standard	
Chk Standard	MP83199,MP83201,MP83203,MP83205

19	P4791-02DUP	HINCHMAN-OILY-WA	DUP	11/11/24 14:31		mohan	OK
20	P4791-02MS	HINCHMAN-OILY-WA	MS	11/11/24 14:33		mohan	OK
21	CCV65	CCV65	CCV	11/11/24 14:36		mohan	OK
22	CCB65	CCB65	CCB	11/11/24 14:41		mohan	OK
23	P4791-02MSD	HINCHMAN-OILY-WA	MSD	11/11/24 14:43		mohan	OK
24	P4792-04	MANHOLE-WASTE-D	SAM	11/11/24 14:45		mohan	OK
25	P4797-01	2885	SAM	11/11/24 14:47		mohan	OK
26	P4791-02L	HINCHMAN-OILY-WA	SD	11/11/24 14:50		mohan	OK
27	P4791-02A	HINCHMAN-OILY-WA	PS	11/11/24 14:52		mohan	OK
28	CCV66	CCV66	CCV	11/11/24 14:54		mohan	OK
29	CCB66	CCB66	CCB	11/11/24 14:57		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/24 10:55		Kareem	OK
2	S1	S1	CAL2	11/19/24 11:00		Kareem	OK
3	S2	S2	CAL3	11/19/24 11:04		Kareem	OK
4	S3	S3	CAL4	11/19/24 11:08		Kareem	OK
5	S4	S4	CAL5	11/19/24 11:13		Kareem	OK
6	S5	S5	CAL6	11/19/24 11:17		Kareem	OK
7	ICV01	ICV01	ICV	11/19/24 11:25		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/19/24 11:34		Kareem	OK
9	ICB01	ICB01	ICB	11/19/24 11:38		Kareem	OK
10	CRI01	CRI01	CRDL	11/19/24 11:43		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/19/24 11:47		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/19/24 11:51		Kareem	OK
13	CCV01	CCV01	CCV	11/19/24 12:43		Kareem	OK
14	CCB01	CCB01	CCB	11/19/24 12:48		Kareem	OK
15	PB165067BL	PB165067BL	MB	11/19/24 12:52		Kareem	OK
16	PB165067BS	PB165067BS	LCS	11/19/24 12:56	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
17	PB164759BL	PB164759BL	MB	11/19/24 13:00		Kareem	OK

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Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

18	PB164759BS	PB164759BS	LCS	11/19/24 13:05	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
19	PB164645BL	PB164645BL	MB	11/19/24 13:09		Kareem	OK
20	PB164645BS	PB164645BS	LCS	11/19/24 13:13	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
21	PB164944TB	PB164944TB	MB	11/19/24 13:17		Kareem	OK
22	P4892-01	WB-310-TOP	SAM	11/19/24 13:22	Cr high	Kareem	Dilution
23	P4892-02	WB-310-BOT	SAM	11/19/24 13:26		Kareem	OK
24	P4893-01	MH-763	SAM	11/19/24 13:30		Kareem	OK
25	CCV02	CCV02	CCV	11/19/24 13:34		Kareem	OK
26	CCB02	CCB02	CCB	11/19/24 13:38		Kareem	OK
27	P4893-05	MH-762	SAM	11/19/24 13:42		Kareem	OK
28	P4908-01	SP-1	SAM	11/19/24 13:46		Kareem	OK
29	P4908-03	SP-2	SAM	11/19/24 13:51		Kareem	OK
30	P4909-01	BU-02-111824	SAM	11/19/24 13:55		Kareem	OK
31	P4909-01DUP	BU-02-111824DUP	DUP	11/19/24 13:59		Kareem	OK
32	P4909-01L	BU-02-111824L	SD	11/19/24 14:03		Kareem	OK
33	P4909-01MS	BU-02-111824MS	MS	11/19/24 14:08	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
34	P4909-01MSD	BU-02-111824MSD	MSD	11/19/24 14:12	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

35	P4909-01A	BU-02-111824A	PS	11/19/24 14:16	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
36	P4890-01	#3711	SAM	11/19/24 14:20		Kareem	OK
37	CCV03	CCV03	CCV	11/19/24 14:24		Kareem	OK
38	CCB03	CCB03	CCB	11/19/24 14:28		Kareem	OK
39	P4890-02	D3617	SAM	11/19/24 14:37		Kareem	OK
40	P4890-03	D3690	SAM	11/19/24 14:41		Kareem	OK
41	P4849-02	RR-1	SAM	11/19/24 14:56		Kareem	OK
42	PB165019TB	PB165019TB	MB	11/19/24 15:00		Kareem	OK
43	P4870-13	TP-1	SAM	11/19/24 15:05		Kareem	OK
44	P4870-14	MH-735	SAM	11/19/24 15:09		Kareem	OK
45	P4870-15	MH-736	SAM	11/19/24 15:13		Kareem	OK
46	P4870-16	TP-15	SAM	11/19/24 15:18		Kareem	OK
47	P4887-02	MH-739	SAM	11/19/24 15:22		Kareem	OK
48	P4887-06	MH-760	SAM	11/19/24 15:27		Kareem	OK
49	CCV04	CCV04	CCV	11/19/24 15:31		Kareem	OK
50	CCB04	CCB04	CCB	11/19/24 15:36		Kareem	OK
51	PB164986TB	PB164986TB	MB	11/19/24 15:40	fail for Cr	Kareem	Not Ok
52	PB165049BL	PB165049BL	MB	11/19/24 15:44		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

53	PB165049BS	PB165049BS	LCS	11/19/24 15:49	0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF THE SAMPLE	Kareem	OK
54	P4892-01DL	WB-310-TOPDL	SAM	11/19/24 15:53	5x for Cr	Kareem	Confirms
55	P4341-02	10324-0	SAM	11/19/24 15:57		Kareem	OK
56	P4860-01	DUP-01	SAM	11/19/24 16:01		Kareem	OK
57	P4860-02	PH2-BOT-001	SAM	11/19/24 16:06		Kareem	OK
58	P4860-03	PH2-BOT-002	SAM	11/19/24 16:10		Kareem	OK
59	P4860-04	PH2-BOT-003	SAM	11/19/24 16:14		Kareem	OK
60	CCV05	CCV05	CCV	11/19/24 16:18		Kareem	OK
61	CCB05	CCB05	CCB	11/19/24 16:22		Kareem	OK
62	P4860-05	PH2-BOT-004	SAM	11/19/24 16:27		Kareem	OK
63	P4860-06	PH2-BOT-009	SAM	11/19/24 16:31		Kareem	OK
64	P4860-07	PH2-BOT-008	SAM	11/19/24 16:35		Kareem	OK
65	P4860-08	PH2-BOT-007	SAM	11/19/24 16:39		Kareem	OK
66	P4860-09	PH2-BOT-006	SAM	11/19/24 16:44		Kareem	OK
67	P4860-10	PH2-BOT-005	SAM	11/19/24 16:48		Kareem	OK
68	P4870-01	TP-1	SAM	11/19/24 16:52		Kareem	OK
69	P4870-04	MH-735	SAM	11/19/24 16:57		Kareem	OK
70	P4870-07	MH-736	SAM	11/19/24 17:01		Kareem	OK
71	P4870-10	TP-15	SAM	11/19/24 17:05		Kareem	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133524

Review By	kareem	Review On	11/20/2024 11:25:14 AM
Supervise By	Jaswal	Supervise On	11/20/2024 11:38:44 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP73080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

72	CCV06	CCV06	CCV	11/19/24 17:19		Kareem	OK
73	CCB06	CCB06	CCB	11/19/24 17:24		Kareem	OK
74	PB165047BL	PB165047BL	MB	11/19/24 17:28		Kareem	OK
75	PB165047BS	PB165047BS	LCS	11/19/24 17:32		Kareem	OK
76	LR1	LR1	HIGH STD	11/19/24 17:51		Kareem	OK
77	LR2	LR2	HIGH STD	11/19/24 17:56		Kareem	OK
78	CCV07	CCV07	CCV	11/19/24 18:01		Kareem	OK
79	CCB07	CCB07	CCB	11/19/24 18:05		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164708

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 #2 2. N/A

Start Digest Date: 11/06/2024 **Time :** 10:00 **Temp :** 96 °C

End Digest Date: 11/06/2024 **Time :** 12:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 96°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	M6116
30% H2O2	3.00	M5634
CONC: HCL	10.00	M6095
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 #2 Cell #34 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/6/24 12:30	JSP/Met dig	SS/Metals Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB164708

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
P4693-01	BP-G5-WC	N/A	2.45	100	Brown	Yellow	Medium	N/A	N/A	1
P4693-05	BP-G4-WC	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	2
P4694-01	Z-03A	N/A	2.36	100	Brown	Yellow	Medium	N/A	N/A	3
P4694-05	Z-04	N/A	2.20	100	Brown	Yellow	Medium	N/A	N/A	4
P4695-01	Z-01	N/A	2.22	100	Black	Brown	Medium	N/A	N/A	5
P4697-01	TP-1	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	6
P4699-01	MIXED-DEMO	N/A	2.44	100	Light Grey	yellowish Green	Medium	N/A	N/A	7
P4699-01MS	MIXED-DEMOMS	N/A	2.35	100	Light Grey	yellowish Green	Medium	N/A	M6000,M6009	9
P4699-01MSD	MIXED-DEMOMSD	N/A	2.19	100	Light Grey	yellowish Green	Medium	N/A	M6000, M6009	10
P4699-01DUP	MIXED-DEMODUP	N/A	2.24	100	Light Grey	yellowish Green	Medium	N/A	N/A	8
P4700-01	MH-8	N/A	2.30	100	Black	Yellow	Medium	N/A	N/A	11
P4701-01	BP-F3	N/A	2.48	100	Yellow	Yellow	Medium	N/A	N/A	12
P4701-05	BP-F4	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	13
P4706-01	TR-04-110424	N/A	2.29	100	Brown	Yellow	Medium	N/A	N/A	14
P4707-01	HD-02-110424	N/A	2.25	100	Brown	Yellow	Medium	N/A	N/A	15
P4708-01	OR-02-110424	N/A	2.46	100	Brown	Yellow	Medium	N/A	N/A	16
P4709-01	HR-02-110424	N/A	2.42	100	Brown	Yellow	Medium	N/A	N/A	17
P4709-03	HR-03-110424	N/A	2.15	100	Brown	Yellow	Medium	N/A	N/A	18
P4711-01	CF-613-COMP-16	N/A	2.23	100	Black	Brown	Medium	N/A	N/A	19
P4711-06	CF-613-COMP-17	N/A	2.12	100	Brown	Yellow	Medium	N/A	N/A	20
P4718-01	WB-307-SB01	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	21
P4718-02	WB-307-SB02	N/A	2.44	100	Brown	Yellow	Medium	N/A	N/A	22
P4719-01	BAYAVE-STOCKPILE	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	23
PB164708BL	PBS708	N/A	2.28	100	Colorless	Colorless	Fine	N/A	N/A	24
PB164708BS	LCS708	N/A	2.28	100	Colorless	Colorless	Fine	N/A	M6000, M6009	25

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164759

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/07/2024 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 11/07/2024 **Time :** 15:45 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	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
Conc. HNO3	3.00	M6116
1:1 HCL	5.00	MP82127
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 Cell #50 : 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24 16:00	JSP / Met dig	[illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164759

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4718-04	WB-307-SW	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	23
P4718-04DUP	WB-307-SWDUP	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	24
P4718-04MS	WB-307-SWMS	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	25
P4718-04MSD	WB-307-SWMSD	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	26
P4736-02	COMP	<2	50	25	White	Colorless	Clear	Cloudy	N/A	27
PB164759BL	PBW759	<2	50	25	Colorless	Colorless	Clear	Clear	N/A	28
PB164759BS	LCS759	<2	50	25	Colorless	Colorless	Clear	Clear	M6000,M6009	29

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164762

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/07/2024 **Time :** 10:15 **Temp :** 94 °C

End Digest Date: 11/07/2024 **Time :** 10:45 **Temp :** 94 °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	MP83113
CCV	30mL	MP83115
CRA	30mL	MP83117
Blank Spike	0.48mL	N/A
Matrix Spike	0.48mL	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP83119
KMnO4 (5%)	4.5mL	MP83108
Hydroxylamine HCL (12%)	2.0mL	MP83110
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	MP83107
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83108
2.5 ppb	S2.5	30mL	MP83109
5.0 ppb	S5.0	30mL	MP83110
7.5 ppb	S7.5	30mL	MP83111
10.0 ppb	S10.0	30mL	MP83112
ICV	ICV	30mL	MP83113
ICB	ICB	30mL	MP83114
CCV	CCV	30mL	MP83115
CCB	CCB	30mL	MP83116
CRI	CRI	30mL	MP83117
CHK STD	CHK STD	30mL	MP83118

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24@ 11:25	MB - prep lab	MB - metal lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB164762

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P4662-06	102524-D	0.51	35	NA	N/A	3-1
P4706-01	TR-04-110424	0.54	35	NA	N/A	2
P4706-01DUP	TR-04-110424DUP	0.58	35	NA	MP83106	3
P4706-01MS	TR-04-110424MS	0.55	35	NA	MP83106	4
P4706-01MSD	TR-04-110424MSD	0.53	35	NA	N/A	5
P4707-01	HD-02-110424	0.51	35	NA	N/A	6
P4708-01	OR-02-110424	0.56	35	NA	N/A	7
P4718-01	WB-307-SB01	0.58	35	NA	N/A	8
P4718-02	WB-307-SB02	0.55	35	NA	N/A	9
P4719-01	BAYAVE-STOCKPILE	0.60	35	NA	N/A	10
P4720-01	JC-701-COMP-01	0.53	35	NA	N/A	11
P4722-03	WC-1(0-6)	0.50	35	NA	N/A	12
P4722-08	WC-2(0-6)	0.53	35	NA	N/A	13
P4722-13	WC-3(0-6)	0.58	35	NA	N/A	14
P4732-01	PPE-COMP	0.50	35	NA	N/A	15
P4734-01	EO-03-11062024	0.50	35	NA	N/A	16
P4737-01	TP2	0.56	35	NA	N/A	17
P4738-01	72-12018	0.59	35	NA	N/A	18
P4739-01	TP-14	0.50	35	NA	N/A	19
P4739-05	BP-G2	0.60	35	NA	N/A	20
P4739-09	BP-B2	0.53	35	NA	N/A	21
P4739-13	TP-11	0.51	35	NA	N/A	22
PB164762BL	PBS762	0.52	35	NA	N/A	23
PB164762BS	LCS762	0.54	35	NA	MP83106	24

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164872

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/11/2024 **Time :** 09:50 **Temp :** 94 °C

End Digest Date: 11/11/2024 **Time :** 11:50 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83198
CCV	30mL	MP83200
CRA	30mL	MP83202
Blank Spike	0.48mL	MP83191
Matrix Spike	0.48mL	MP83191

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP82651
KMnO4 (5%)	4.5mL	MP82652
K2S2O8 (5%)	2.5mL	MP82653
Hydroxylamine HCL (12%)	2.0mL	MP82654
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	MP83192
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83193
2.5 ppb	S2.5	30mL	MP83194
5.0 ppb	S5.0	30mL	MP83195
7.5 ppb	S7.5	30mL	MP83196
10.0 ppb	S10.0	30mL	MP83197
ICV	ICV	30mL	MP83198
ICB	ICB	30mL	MP83199
CCV	CCV	30mL	MP83200
CCB	CCB	30mL	MP83201
CRI	CRI	30mL	MP83202
CHK STD	CHK STD	30mL	MP83203

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/11/24 12:15	[illegible]	[illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164872

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4718-04	WB-307-SW	30	30	<2	N/A	3-1
P4736-02	COMP	30	30	<2	N/A	2
P4791-02	HINCHMAN-OILY-WATER	30	30	<2	N/A	3
P4791-02DUP	HINCHMAN-OILY-WATERDUP	30	30	<2	N/A	4
P4791-02MS	HINCHMAN-OILY-WATERMS	30	30	<2	MP83191	5
P4791-02MSD	HINCHMAN-OILY-WATERMSD	30	30	<2	MP83191	6
P4792-04	MANHOLE-WASTE-DRUMS	30	30	<2	N/A	7
P4797-01	2885	30	30	<2	N/A	8
PB164872BL	PBW872	30	30	<2	N/A	9
PB164872BS	LCS872	30	30	<2	MP83191	10

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Hit Summary Sheet
SW-846

SDG No.:	P4718	**Order ID:**	P4718
Client:	Portal Partners Tri-Venture	**Project ID:**	Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-307-SB02								
P4718-03	WB-307-SB02	TCLP	Barium	1850		62.8	500	ug/L
P4718-03	WB-307-SB02	TCLP	Chromium	16.1	J	6.60	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/04/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-39-3	Barium	1850	N	1	62.8	500	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-47-3	Chromium	16.1	J	1	6.60	50.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7439-97-6	Mercury	0.81	U	1	0.81	2.00	ug/L	11/07/24 11:50	11/08/24 10:42	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	11/07/24 12:30	11/19/24 21:09	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	TCLP-FULL				

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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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB75	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:21	LB133352

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB51	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:25	LB133352
CCB52	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	10:56	LB133352
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	11:23	LB133352
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	11/08/2024	11:34	LB133352

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:16	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:16	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:16	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:16	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:16	LB133365

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	14:50	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	14:50	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	14:50	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	14:50	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	14:50	LB133365
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	15:33	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	15:33	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	15:33	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	15:33	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	15:33	LB133365
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	16:28	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	16:28	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	16:28	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	16:28	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	16:28	LB133365
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	17:22	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	17:22	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	17:22	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	17:22	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	17:22	LB133365
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:08	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:08	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:08	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:08	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:08	LB133365
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	18:59	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	18:59	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	18:59	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	18:59	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	18:59	LB133365
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	19:51	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	19:51	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	19:51	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	19:51	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	19:51	LB133365
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	20:57	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	20:57	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	20:57	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	20:57	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	20:57	LB133365
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	21:55	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	21:55	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	21:55	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	21:55	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	21:55	LB133365
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Barium	100	+/-100	U	100	P	11/08/2024	23:35	LB133365
	Cadmium	6.00	+/-6.00	U	6.00	P	11/08/2024	23:35	LB133365
	Chromium	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365
	Lead	12.0	+/-12.0	U	12.0	P	11/08/2024	23:35	LB133365
	Selenium	20.0	+/-20.0	U	20.0	P	11/08/2024	23:35	LB133365
	Silver	10.0	+/-10.0	U	10.0	P	11/08/2024	23:35	LB133365

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	20:14	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	20:14	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	20:14	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	20:14	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	20:14	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	20:14	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	20:14	LB133525

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	20:47	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	20:47	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	20:47	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	20:47	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	20:47	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	20:47	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	20:47	LB133525
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	11/19/2024	21:42	LB133525
	Barium	100	+/-100	U	100	P	11/19/2024	21:42	LB133525
	Cadmium	6.00	+/-6.00	U	6.00	P	11/19/2024	21:42	LB133525
	Chromium	10.0	+/-10.0	U	10.0	P	11/19/2024	21:42	LB133525
	Lead	12.0	+/-12.0	U	12.0	P	11/19/2024	21:42	LB133525
	Selenium	20.0	+/-20.0	U	20.0	P	11/19/2024	21:42	LB133525
	Silver	10.0	+/-10.0	U	10.0	P	11/19/2024	21:42	LB133525

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164694TB		**WATER**		**Batch Number:**	**PB164791**		**Prep Date:**	**11/07/2024**	
	Mercury	2.00	<2.00	U	2.00	CV	11/08/2024	11:25	LB133352

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164791BL		**WATER**		**Batch Number:**	**PB164791**		**Prep Date:**	**11/07/2024**	
	Mercury	0.20	<0.20	U	0.20	CV	11/08/2024	10:38	LB133352

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164694TB		**WATER**		**Batch Number:**	**PB164768**		**Prep Date:**	**11/07/2024**	
	Arsenic	100	<100	U	100	P	11/08/2024	16:54	LB133365
	Barium	500	<500	U	500	P	11/08/2024	16:54	LB133365
	Cadmium	30.0	<30.0	U	30.0	P	11/08/2024	16:54	LB133365
	Chromium	50.0	<50.0	U	50.0	P	11/08/2024	16:54	LB133365
	Lead	60.0	<60.0	U	60.0	P	11/08/2024	16:54	LB133365
	Selenium	100	<100	U	100	P	11/08/2024	16:54	LB133365
	Silver	50.0	<50.0	U	50.0	P	11/08/2024	16:54	LB133365

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164768BL		**WATER**		**Batch Number:**	**PB164768**		**Prep Date:**	**11/07/2024**	
	Arsenic	100	<100	U	100	P	11/08/2024	16:59	LB133365
	Barium	500	<500	U	500	P	11/08/2024	16:59	LB133365
	Cadmium	30.0	<30.0	U	30.0	P	11/08/2024	16:59	LB133365
	Chromium	50.0	<50.0	U	50.0	P	11/08/2024	16:59	LB133365
	Lead	60.0	<60.0	U	60.0	P	11/08/2024	16:59	LB133365
	Selenium	100	<100	U	100	P	11/08/2024	16:59	LB133365
	Silver	50.0	<50.0	U	50.0	P	11/08/2024	16:59	LB133365

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
ICV75	Mercury	3.66	4.0	92	90 - 110	CV	11/08/2024	10:19	LB133352

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
CCV51	Mercury	5.08	5.0	102	90 - 110	CV	11/08/2024	10:23	LB133352
CCV52	Mercury	4.97	5.0	99	90 - 110	CV	11/08/2024	10:53	LB133352
CCV53	Mercury	4.67	5.0	93	90 - 110	CV	11/08/2024	11:21	LB133352
CCV54	Mercury	4.56	5.0	91	90 - 110	CV	11/08/2024	11:32	LB133352

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Arsenic	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Barium	513	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Cadmium	497	510	97	90 - 110	P	11/08/2024	13:59	LB133365
	Chromium	514	520	99	90 - 110	P	11/08/2024	13:59	LB133365
	Lead	999	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Selenium	1000	1000	100	90 - 110	P	11/08/2024	13:59	LB133365
	Silver	251	250	100	90 - 110	P	11/08/2024	13:59	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Arsenic	19.5	20.0	98	80 - 120	P	11/08/2024	14:11	LB133365
	Barium	95.3	100	95	80 - 120	P	11/08/2024	14:11	LB133365
	Cadmium	6.34	6.0	106	80 - 120	P	11/08/2024	14:11	LB133365
	Chromium	9.48	10.0	95	80 - 120	P	11/08/2024	14:11	LB133365
	Lead	11.8	12.0	99	80 - 120	P	11/08/2024	14:11	LB133365
	Selenium	20.6	20.0	103	80 - 120	P	11/08/2024	14:11	LB133365
	Silver	10.6	10.0	106	80 - 120	P	11/08/2024	14:11	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	14:44	LB133365
	Barium	9530	10000	95	90 - 110	P	11/08/2024	14:44	LB133365
	Cadmium	2390	2500	96	90 - 110	P	11/08/2024	14:44	LB133365
	Chromium	1050	1000	105	90 - 110	P	11/08/2024	14:44	LB133365
	Lead	4870	5000	97	90 - 110	P	11/08/2024	14:44	LB133365
	Selenium	5020	5000	100	90 - 110	P	11/08/2024	14:44	LB133365
	Silver	1230	1250	99	90 - 110	P	11/08/2024	14:44	LB133365
CCV02	Arsenic	4950	5000	99	90 - 110	P	11/08/2024	15:29	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	15:29	LB133365
	Cadmium	2360	2500	94	90 - 110	P	11/08/2024	15:29	LB133365
	Chromium	918	1000	92	90 - 110	P	11/08/2024	15:29	LB133365
	Lead	4800	5000	96	90 - 110	P	11/08/2024	15:29	LB133365
	Selenium	5080	5000	102	90 - 110	P	11/08/2024	15:29	LB133365
	Silver	1230	1250	98	90 - 110	P	11/08/2024	15:29	LB133365
CCV03	Arsenic	4980	5000	100	90 - 110	P	11/08/2024	16:23	LB133365
	Barium	9610	10000	96	90 - 110	P	11/08/2024	16:23	LB133365
	Cadmium	2380	2500	95	90 - 110	P	11/08/2024	16:23	LB133365
	Chromium	930	1000	93	90 - 110	P	11/08/2024	16:23	LB133365
	Lead	4840	5000	97	90 - 110	P	11/08/2024	16:23	LB133365
	Selenium	5130	5000	103	90 - 110	P	11/08/2024	16:23	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	16:23	LB133365
CCV04	Arsenic	5190	5000	104	90 - 110	P	11/08/2024	17:16	LB133365
	Barium	9360	10000	94	90 - 110	P	11/08/2024	17:16	LB133365
	Cadmium	2420	2500	97	90 - 110	P	11/08/2024	17:16	LB133365
	Chromium	927	1000	93	90 - 110	P	11/08/2024	17:16	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	17:16	LB133365
	Selenium	5360	5000	107	90 - 110	P	11/08/2024	17:16	LB133365
	Silver	1260	1250	101	90 - 110	P	11/08/2024	17:16	LB133365
CCV05	Arsenic	5110	5000	102	90 - 110	P	11/08/2024	18:04	LB133365
	Barium	9290	10000	93	90 - 110	P	11/08/2024	18:04	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	18:04	LB133365
	Chromium	906	1000	91	90 - 110	P	11/08/2024	18:04	LB133365
	Lead	4940	5000	99	90 - 110	P	11/08/2024	18:04	LB133365
	Selenium	5280	5000	106	90 - 110	P	11/08/2024	18:04	LB133365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Silver	1230	1250	99	90 - 110	P	11/08/2024	18:04	LB133365
CCV06	Arsenic	4970	5000	100	90 - 110	P	11/08/2024	18:55	LB133365
	Barium	9460	10000	95	90 - 110	P	11/08/2024	18:55	LB133365
	Cadmium	2360	2500	95	90 - 110	P	11/08/2024	18:55	LB133365
	Chromium	923	1000	92	90 - 110	P	11/08/2024	18:55	LB133365
	Lead	4830	5000	97	90 - 110	P	11/08/2024	18:55	LB133365
	Selenium	5100	5000	102	90 - 110	P	11/08/2024	18:55	LB133365
	Silver	1220	1250	98	90 - 110	P	11/08/2024	18:55	LB133365
CCV07	Arsenic	5060	5000	101	90 - 110	P	11/08/2024	19:47	LB133365
	Barium	9520	10000	95	90 - 110	P	11/08/2024	19:47	LB133365
	Cadmium	2400	2500	96	90 - 110	P	11/08/2024	19:47	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	19:47	LB133365
	Lead	4910	5000	98	90 - 110	P	11/08/2024	19:47	LB133365
	Selenium	5210	5000	104	90 - 110	P	11/08/2024	19:47	LB133365
	Silver	1250	1250	100	90 - 110	P	11/08/2024	19:47	LB133365
CCV08	Arsenic	4620	5000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Barium	9200	10000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Cadmium	2370	2500	95	90 - 110	P	11/08/2024	20:48	LB133365
	Chromium	920	1000	92	90 - 110	P	11/08/2024	20:48	LB133365
	Lead	4790	5000	96	90 - 110	P	11/08/2024	20:48	LB133365
	Selenium	4670	5000	93	90 - 110	P	11/08/2024	20:48	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	20:48	LB133365
CCV09	Arsenic	4610	5000	92	90 - 110	P	11/08/2024	21:50	LB133365
	Barium	9110	10000	91	90 - 110	P	11/08/2024	21:50	LB133365
	Cadmium	2310	2500	93	90 - 110	P	11/08/2024	21:50	LB133365
	Chromium	902	1000	90	90 - 110	P	11/08/2024	21:50	LB133365
	Lead	4710	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Selenium	4690	5000	94	90 - 110	P	11/08/2024	21:50	LB133365
	Silver	1190	1250	95	90 - 110	P	11/08/2024	21:50	LB133365
CCV10	Arsenic	5340	5000	107	90 - 110	P	11/08/2024	23:24	LB133365
	Barium	9550	10000	96	90 - 110	P	11/08/2024	23:24	LB133365
	Cadmium	2430	2500	97	90 - 110	P	11/08/2024	23:24	LB133365
	Chromium	1000	1000	100	90 - 110	P	11/08/2024	23:24	LB133365
	Lead	4980	5000	100	90 - 110	P	11/08/2024	23:24	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Selenium	4900	5000	98	90 - 110	P	11/08/2024	23:24	LB133365
	Silver	1270	1250	102	90 - 110	P	11/08/2024	23:24	LB133365

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Arsenic	996	1000	100	90 - 110	P	11/19/2024	20:06	LB133525
	Barium	497	520	96	90 - 110	P	11/19/2024	20:06	LB133525
	Cadmium	500	510	98	90 - 110	P	11/19/2024	20:06	LB133525
	Chromium	523	520	100	90 - 110	P	11/19/2024	20:06	LB133525
	Lead	990	1000	99	90 - 110	P	11/19/2024	20:06	LB133525
	Selenium	1020	1000	102	90 - 110	P	11/19/2024	20:06	LB133525
	Silver	251	250	100	90 - 110	P	11/19/2024	20:06	LB133525

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Arsenic	21.7	20.0	108	80 - 120	P	11/19/2024	20:10	LB133525
	Barium	101	100	101	80 - 120	P	11/19/2024	20:10	LB133525
	Cadmium	7.11	6.0	118	80 - 120	P	11/19/2024	20:10	LB133525
	Chromium	10.3	10.0	104	80 - 120	P	11/19/2024	20:10	LB133525
	Lead	11.9	12.0	100	80 - 120	P	11/19/2024	20:10	LB133525
	Selenium	18.5	20.0	92	80 - 120	P	11/19/2024	20:10	LB133525
	Silver	10.4	10.0	104	80 - 120	P	11/19/2024	20:10	LB133525

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Arsenic	4810	5000	96	90 - 110	P	11/19/2024	20:38	LB133525
	Barium	9260	10000	93	90 - 110	P	11/19/2024	20:38	LB133525
	Cadmium	2420	2500	97	90 - 110	P	11/19/2024	20:38	LB133525
	Chromium	1010	1000	101	90 - 110	P	11/19/2024	20:38	LB133525
	Lead	4860	5000	97	90 - 110	P	11/19/2024	20:38	LB133525
	Selenium	4740	5000	95	90 - 110	P	11/19/2024	20:38	LB133525
	Silver	1250	1250	100	90 - 110	P	11/19/2024	20:38	LB133525
CCV02	Arsenic	4710	5000	94	90 - 110	P	11/19/2024	21:36	LB133525
	Barium	10200	10000	102	90 - 110	P	11/19/2024	21:36	LB133525
	Cadmium	2740	2500	109	90 - 110	P	11/19/2024	21:36	LB133525
	Chromium	1090	1000	109	90 - 110	P	11/19/2024	21:36	LB133525
	Lead	5290	5000	106	90 - 110	P	11/19/2024	21:36	LB133525
	Selenium	4570	5000	91	90 - 110	P	11/19/2024	21:36	LB133525
	Silver	1230	1250	98	90 - 110	P	11/19/2024	21:36	LB133525

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	0.19	0.2	95	40 - 160	CV	11/08/2024	10:28	LB133352
CRI01	Arsenic	20.1	20.0	100	40 - 160	P	11/08/2024	14:20	LB133365
	Barium	95.0	100	95	40 - 160	P	11/08/2024	14:20	LB133365
	Cadmium	6.16	6.0	103	40 - 160	P	11/08/2024	14:20	LB133365
	Chromium	9.24	10.0	92	40 - 160	P	11/08/2024	14:20	LB133365
	Lead	11.8	12.0	98	40 - 160	P	11/08/2024	14:20	LB133365
	Selenium	19.8	20.0	99	40 - 160	P	11/08/2024	14:20	LB133365
	Silver	10.3	10.0	103	40 - 160	P	11/08/2024	14:20	LB133365
CRI01	Arsenic	21.8	20.0	109	40 - 160	P	11/19/2024	20:19	LB133525
	Barium	99.9	100	100	40 - 160	P	11/19/2024	20:19	LB133525
	Cadmium	7.16	6.0	119	40 - 160	P	11/19/2024	20:19	LB133525
	Chromium	10.5	10.0	105	40 - 160	P	11/19/2024	20:19	LB133525
	Lead	11.3	12.0	94	40 - 160	P	11/19/2024	20:19	LB133525
	Selenium	17.2	20.0	86	40 - 160	P	11/19/2024	20:19	LB133525
	Silver	10.3	10.0	103	40 - 160	P	11/19/2024	20:19	LB133525

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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	Arsenic	5.52			-20	20	11/08/2024	14:24	LB133365
	Barium	1.84	6.0	31	-94	106	11/08/2024	14:24	LB133365
	Cadmium	6.11	1.0	611	-5	7	11/08/2024	14:24	LB133365
	Chromium	54.3	52.0	104	42	62	11/08/2024	14:24	LB133365
	Lead	9.97			-12	12	11/08/2024	14:24	LB133365
	Selenium	-14.4			-20	20	11/08/2024	14:24	LB133365
	Silver	-0.087			-10	10	11/08/2024	14:24	LB133365
ICSAB01	Arsenic	115	104	111	88.4	120	11/08/2024	14:30	LB133365
	Barium	496	537	92	437	637	11/08/2024	14:30	LB133365
	Cadmium	979	972	101	826	1120	11/08/2024	14:30	LB133365
	Chromium	521	542	96	460	624	11/08/2024	14:30	LB133365
	Lead	57.3	49.0	117	37	61	11/08/2024	14:30	LB133365
	Selenium	31.2	46.0	68	26	66	11/08/2024	14:30	LB133365
	Silver	198	201	98	170	232	11/08/2024	14:30	LB133365
ICSA01	Arsenic	7.44			-20	20	11/19/2024	20:23	LB133525
	Barium	4.72	6.0	79	-94	106	11/19/2024	20:23	LB133525
	Cadmium	5.53	1.0	553	-5	7	11/19/2024	20:23	LB133525
	Chromium	59.7	52.0	115	42	62	11/19/2024	20:23	LB133525
	Lead	9.28			-12	12	11/19/2024	20:23	LB133525
	Selenium	-19.2			-20	20	11/19/2024	20:23	LB133525
	Silver	-0.77			-10	10	11/19/2024	20:23	LB133525
ICSAB01	Arsenic	115	104	111	88.4	120	11/19/2024	20:27	LB133525
	Barium	493	537	92	437	637	11/19/2024	20:27	LB133525
	Cadmium	1030	972	106	826	1120	11/19/2024	20:27	LB133525
	Chromium	583	542	108	460	624	11/19/2024	20:27	LB133525
	Lead	57.7	49.0	118	37	61	11/19/2024	20:27	LB133525
	Selenium	30.0	46.0	65	26	66	11/19/2024	20:27	LB133525
	Silver	202	201	100	170	232	11/19/2024	20:27	LB133525

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Water **sample id:** P4718-03 **client id:** WB-307-SB02MS

Percent Solids for Sample: NA **Spiked ID:** P4718-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4010		100	U	4000	100		P
Barium	ug/L	75 - 125	2780		1850		1000	94		P
Cadmium	ug/L	75 - 125	1120		30.0	U	1000	112		P
Chromium	ug/L	75 - 125	2340		16.1	J	2000	116		P
Lead	ug/L	75 - 125	5130		60.0	U	5000	103		P
Mercury	ug/L	75 - 125	33.6		2.00	U	40.0	84		CV
Selenium	ug/L	75 - 125	9590		100	U	10000	96		P
Silver	ug/L	75 - 125	362		50.0	U	380	95		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** P4718

contract: PORT06 **lab code:** CHEM **case no.:** P4718 **sas no.:** P4718

matrix: Water **sample id:** P4718-03 **client id:** WB-307-SB02MSD

Percent Solids for Sample: NA **Spiked ID:** P4718-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3850		100	U	4000	96		P
Barium	ug/L	75 - 125	2560		1850		1000	72	N	P
Cadmium	ug/L	75 - 125	1080		30.0	U	1000	108		P
Chromium	ug/L	75 - 125	2270		16.1	J	2000	113		P
Lead	ug/L	75 - 125	4900		60.0	U	5000	98		P
Mercury	ug/L	75 - 125	40.7		2.00	U	40.0	102		CV
Selenium	ug/L	75 - 125	9210		100	U	10000	92		P
Silver	ug/L	75 - 125	343		50.0	U	380	90		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Level:** LOW **Client ID:** WB-307-SB02A

Sample ID: P4718-03 **Spiked ID:** P4718-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	2690		1850		1000	84		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Sample ID:** P4718-03 **Client ID:** WB-307-SB02DUP

Percent Solids for Sample: NA **Duplicate ID** P4718-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	1850		1790		3		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	16.1	J	14.3	J	12		P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Matrix: Water **Sample ID:** P4718-03MS **Client ID:** WB-307-SB02MSD

Percent Solids for Sample: NA **Duplicate ID** P4718-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4010		3850		4		P
Barium	ug/L	20	2780		2560		8		P
Cadmium	ug/L	20	1120		1080		4		P
Chromium	ug/L	20	2340		2270		3		P
Lead	ug/L	20	5130		4900		5		P
Mercury	ug/L	20	33.6		40.7		19		CV
Selenium	ug/L	20	9590		9210		4		P
Silver	ug/L	20	362		343		5		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

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164768BS							
Arsenic	ug/L	4000	3890		97	80 - 120	P
Barium	ug/L	1000	956		96	80 - 120	P
Cadmium	ug/L	1000	901		90	80 - 120	P
Chromium	ug/L	2000	1800		90	80 - 120	P
Lead	ug/L	5000	4650		93	80 - 120	P
Selenium	ug/L	10000	9760		98	80 - 120	P
Silver	ug/L	380	363		96	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164791BS							
Mercury	ug/L	4.0	4.19		105	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

WB-307-SB02L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb133525 **Lab Sample ID :** P4718-03L **SDG No.:** P4718

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	1850		2020	J	9		P
Cadmium	30.0	U	150	U			P
Chromium	16.1	J	250	U	100.0		P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133352

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1004	HG
S0.2	S0.2	1	1007	HG
S2.5	S2.5	1	1009	HG
S5	S5	1	1011	HG
S7.5	S7.5	1	1013	HG
S10	S10	1	1016	HG
ICV75	ICV75	1	1019	HG
ICB75	ICB75	1	1021	HG
CCV51	CCV51	1	1023	HG
CCB51	CCB51	1	1025	HG
CRA	CRA	1	1028	HG
PB164791BL	PB164791BL	1	1038	HG
PB164791BS	PB164791BS	1	1040	HG
P4718-03	WB-307-SB02	1	1042	HG
P4718-03DUP	WB-307-SB02DUP	1	1044	HG
P4718-03MS	WB-307-SB02MS	1	1047	HG
P4718-03MSD	WB-307-SB02MSD	1	1049	HG
CCV52	CCV52	1	1053	HG
CCB52	CCB52	1	1056	HG
CCV53	CCV53	1	1121	HG
CCB53	CCB53	1	1123	HG
PB164694TB	PB164694TB	1	1125	HG
P4718-03L	WB-307-SB02L	5	1128	HG
CCV54	CCV54	1	1132	HG
CCB54	CCB54	1	1134	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133365

Start date: 11/08/2024 **End date:** 11/08/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1334	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1338	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1343	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1347	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1351	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1359	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1411	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1416	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1420	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1424	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1430	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1450	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1529	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1533	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1623	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
PB164694TB	PB164694TB	1	1654	Ag,As,Ba,Cd,Cr,Pb,Se
PB164768BL	PB164768BL	1	1659	Ag,As,Ba,Cd,Cr,Pb,Se
PB164768BS	PB164768BS	1	1703	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1716	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1722	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1804	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1808	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1855	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1859	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1947	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1951	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2048	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2057	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2150	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2155	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2324	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2335	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** P4718 **Sas no.:** P4718 **Sdg no.:** P4718

Instrument id number: **Method:** **Run number:** LB133525

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1940	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1945	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1949	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1953	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1958	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	2002	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	2006	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	2010	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	2014	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	2019	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	2023	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	2027	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	2038	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	2047	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03DUP	WB-307-SB02DUP	1	2056	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03L	WB-307-SB02L	5	2101	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03MS	WB-307-SB02MS	1	2105	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03	WB-307-SB02	1	2109	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03MSD	WB-307-SB02MSD	1	2114	Ag,As,Ba,Cd,Cr,Pb,Se
P4718-03A	WB-307-SB02A	1	2118	Ba
CCV02	CCV02	1	2136	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	2142	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Case No.:** P4718 **SAS No.:** P4718

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
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
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	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

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24**			**11/05/24**
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24**			**11/05/24**
			Mercury	7471B		11/07/24	11/07/24	
			Metals ICP-TAL	6010D		11/06/24	11/07/24	
P4718-03	**WB-307-SB02**	**TCLP**			**11/04/24**			**11/05/24**
			TCLP ICP Metals	6010D		11/07/24	11/19/24	
			TCLP Mercury	7470A		11/07/24	11/08/24	
P4718-04	**WB-307-SW**	**Water**			**11/04/24**			**11/05/24**
			Mercury	7470A		11/11/24	11/11/24	
			Metals ICP-TAL	6010D		11/07/24	11/08/24	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164768**						
P4718-03	WB-307-SB02	SAM	WATER	11/07/2024	5.0	25.0	
P4718-03DUP	WB-307-SB02DUP	DUP	WATER	11/07/2024	5.0	25.0	
P4718-03MS	WB-307-SB02MS	MS	WATER	11/07/2024	5.0	25.0	
P4718-03MSD	WB-307-SB02MSD	MSD	WATER	11/07/2024	5.0	25.0	
PB164694TB	PB164694TB	MB	WATER	11/07/2024	5.0	25.0	
PB164768BL	PB164768BL	MB	WATER	11/07/2024	5.0	25.0	
PB164768BS	PB164768BS	LCS	WATER	11/07/2024	5.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: P4718 **SAS No.:** P4718

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164791**						
P4718-03	WB-307-SB02	SAM	WATER	11/07/2024	3.0	30.0	
P4718-03DUP	WB-307-SB02DUP	DUP	WATER	11/07/2024	3.0	30.0	
P4718-03MS	WB-307-SB02MS	MS	WATER	11/07/2024	3.0	30.0	
P4718-03MSD	WB-307-SB02MSD	MSD	WATER	11/07/2024	3.0	30.0	
PB164694TB	PB164694TB	MB	WATER	11/07/2024	3.0	30.0	
PB164791BL	PB164791BL	MB	WATER	11/07/2024	30.0	30.0	
PB164791BS	PB164791BS	LCS	WATER	11/07/2024	30.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133352

Review By	jaswal	Review On	11/8/2024 9:50:44 PM
Supervise By	mohan	Supervise On	11/8/2024 9:52:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83159

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/08/24 10:04		Mohan	OK
2	S0.2	S0.2	CAL2	11/08/24 10:07		Mohan	OK
3	S2.5	S2.5	CAL3	11/08/24 10:09		Mohan	OK
4	S5	S5	CAL4	11/08/24 10:11		Mohan	OK
5	S7.5	S7.5	CAL5	11/08/24 10:13		Mohan	OK
6	S10	S10	CAL6	11/08/24 10:16		Mohan	OK
7	ICV75	ICV75	ICV	11/08/24 10:19		Mohan	OK
8	ICB75	ICB75	ICB	11/08/24 10:21		Mohan	OK
9	CCV51	CCV51	CCV	11/08/24 10:23		Mohan	OK
10	CCB51	CCB51	CCB	11/08/24 10:25		Mohan	OK
11	CRA	CRA	CRDL	11/08/24 10:28		Mohan	OK
12	HighStd	HighStd	HIGH STD	11/08/24 10:30		Mohan	OK
13	ChkStd	ChkStd	SAM	11/08/24 10:35		Mohan	OK
14	PB164791BL	PB164791BL	MB	11/08/24 10:38		Mohan	OK
15	PB164791BS	PB164791BS	LCS	11/08/24 10:40		Mohan	OK
16	P4718-03	WB-307-SB02	SAM	11/08/24 10:42		Mohan	OK
17	P4718-03DUP	WB-307-SB02DUP	DUP	11/08/24 10:44		Mohan	OK
18	P4718-03MS	WB-307-SB02MS	MS	11/08/24 10:47		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133352

Review By	jaswal	Review On	11/8/2024 9:50:44 PM
Supervise By	mohan	Supervise On	11/8/2024 9:52:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83159

19	P4718-03MSD	WB-307-SB02MSD	MSD	11/08/24 10:49		Mohan	OK
20	P4719-03	BAYAVE-STOCKPILE	SAM	11/08/24 10:51		Mohan	OK
21	CCV52	CCV52	CCV	11/08/24 10:53		Mohan	OK
22	CCB52	CCB52	CCB	11/08/24 10:56		Mohan	OK
23	P4720-05	JC-701-COMP-01	SAM	11/08/24 10:58		Mohan	OK
24	P4722-04	WC-1(0-6)	SAM	11/08/24 11:00		Mohan	OK
25	P4722-09	WC-2(0-6)	SAM	11/08/24 11:03		Mohan	OK
26	P4722-14	WC-3(0-6)	SAM	11/08/24 11:05		Mohan	OK
27	P4732-02	PPE-COMP	SAM	11/08/24 11:07		Mohan	OK
28	P4738-02	72-12018	SAM	11/08/24 11:09		Mohan	OK
29	P4739-04	TP-14	SAM	11/08/24 11:12		Mohan	OK
30	P4739-08	BP-G2	SAM	11/08/24 11:14		Mohan	OK
31	P4739-12	BP-B2	SAM	11/08/24 11:16		Mohan	OK
32	P4739-16	TP-11	SAM	11/08/24 11:18		Mohan	OK
33	CCV53	CCV53	CCV	11/08/24 11:21		Mohan	OK
34	CCB53	CCB53	CCB	11/08/24 11:23		Mohan	OK
35	PB164694TB	PB164694TB	MB	11/08/24 11:25		Mohan	OK
36	P4718-03L	WB-307-SB02L	SD	11/08/24 11:28		Mohan	OK
37	P4718-03A	WB-307-SB02A	PS	11/08/24 11:30		Mohan	OK
38	CCV54	CCV54	CCV	11/08/24 11:32		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133352

Review By	jaswal	Review On	11/8/2024 9:50:44 PM
Supervise By	mohan	Supervise On	11/8/2024 9:52:17 PM

STD. NAME	STD REF.#
ICAL Standard	MP83107,MP83108,MP83109,MP83110,MP83111,MP83112
ICV Standard	MP83113
CCV Standard	MP83115
ICSA Standard	
CRI Standard	MP83117
LCS Standard	
Chk Standard	MP83114,MP83116,MP83118,MP83159

39	CCB54	CCB54	CCB	11/08/24 11:34		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/08/24 13:34		Kareem	OK
2	S1	S1	CAL2	11/08/24 13:38		Kareem	OK
3	S2	S2	CAL3	11/08/24 13:43		Kareem	OK
4	S3	S3	CAL4	11/08/24 13:47		Kareem	OK
5	S4	S4	CAL5	11/08/24 13:51		Kareem	OK
6	S5	S5	CAL6	11/08/24 13:55		Kareem	OK
7	ICV01	ICV01	ICV	11/08/24 13:59	ICV fail for Na (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	11/08/24 14:11		Kareem	OK
9	ICB01	ICB01	ICB	11/08/24 14:16		Kareem	OK
10	CRI01	CRI01	CRDL	11/08/24 14:20		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/08/24 14:24		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/08/24 14:30		Kareem	OK
13	ICSADL	ICSADL	ICSA	11/08/24 14:35		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	11/08/24 14:40		Kareem	OK
15	CCV01	CCV01	CCV	11/08/24 14:44		Kareem	OK
16	CCB01	CCB01	CCB	11/08/24 14:50		Kareem	OK
17	P4578-04DL	WB-305-TOP-1DL	SAM	11/08/24 14:55	5x for Cr	Kareem	Confirms
18	P4719-03	BAYAVE-STOCKPILE	SAM	11/08/24 14:59		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

19	P4720-05	JC-701-COMP-01	SAM	11/08/24 15:03		Kareem	OK
20	P4734-01	EO-03-11062024	SAM	11/08/24 15:07		Kareem	OK
21	P4757-01	001-WILLETS-PT-BL	SAM	11/08/24 15:12		Kareem	OK
22	P4757-02	002-35TH-AVE(SEP)	SAM	11/08/24 15:16		Kareem	OK
23	P4757-03	001-WILLETS-PT-BL	SAM	11/08/24 15:20		Kareem	OK
24	P4757-04	002-35TH-AVE(OCT)	SAM	11/08/24 15:25		Kareem	OK
25	CCV02	CCV02	CCV	11/08/24 15:29		Kareem	OK
26	CCB02	CCB02	CCB	11/08/24 15:33		Kareem	OK
27	P4718-03	WB-307-SB02	SAM	11/08/24 15:39	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
28	P4718-03DUP	WB-307-SB02DUP	DUP	11/08/24 15:44	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
29	P4718-03L	WB-307-SB02L	SD	11/08/24 15:48	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
30	P4718-03MS	WB-307-SB02MS	MS	11/08/24 15:52	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
31	P4718-03MSD	WB-307-SB02MSD	MSD	11/08/24 15:57	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
32	P4718-03A	WB-307-SB02A	PS	11/08/24 16:01	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
33	P4722-04	WC-1(0-6)	SAM	11/08/24 16:06		Kareem	OK
34	P4722-09	WC-2(0-6)	SAM	11/08/24 16:10		Kareem	OK
35	P4722-14	WC-3(0-6)	SAM	11/08/24 16:15		Kareem	OK
36	P4732-02	PPE-COMP	SAM	11/08/24 16:19		Kareem	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

37	CCV03	CCV03	CCV	11/08/24 16:23		Kareem	OK
38	CCB03	CCB03	CCB	11/08/24 16:28		Kareem	OK
39	P4738-02	72-12018	SAM	11/08/24 16:32		Kareem	OK
40	P4739-04	TP-14	SAM	11/08/24 16:36		Kareem	OK
41	P4739-08	BP-G2	SAM	11/08/24 16:41		Kareem	OK
42	P4739-12	BP-B2	SAM	11/08/24 16:45		Kareem	OK
43	P4739-16	TP-11	SAM	11/08/24 16:50		Kareem	OK
44	PB164694TB	PB164694TB	MB	11/08/24 16:54		Kareem	OK
45	PB164768BL	PB164768BL	MB	11/08/24 16:59		Kareem	OK
46	PB164768BS	PB164768BS	LCS	11/08/24 17:03	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
47	P4762-02	EFF-WW	SAM	11/08/24 17:07		Kareem	OK
48	P4762-02DUP	EFF-WWDUP	DUP	11/08/24 17:11		Kareem	OK
49	CCV04	CCV04	CCV	11/08/24 17:16		Kareem	OK
50	CCB04	CCB04	CCB	11/08/24 17:22		Kareem	OK
51	P4762-02L	EFF-WWL	SD	11/08/24 17:26		Kareem	OK
52	P4762-02MS	EFF-WWMS	MS	11/08/24 17:31	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
53	P4762-02MSD	EFF-WWMSD	MSD	11/08/24 17:35	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

54	P4762-02A	EFF-WWA	PS	11/08/24 17:39	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
55	PB164782BL	PB164782BL	MB	11/08/24 17:43		Kareem	OK
56	PB164782BS	PB164782BS	LCS	11/08/24 17:47	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
57	P4732-01	PPE-COMP	SAM	11/08/24 17:51		Kareem	OK
58	P4737-01	TP2	SAM	11/08/24 17:55		Kareem	OK
59	P4738-01	72-12018	SAM	11/08/24 18:00		Kareem	OK
60	CCV05	CCV05	CCV	11/08/24 18:04		Kareem	OK
61	CCB05	CCB05	CCB	11/08/24 18:08		Kareem	OK
62	P4739-01	TP-14	SAM	11/08/24 18:13		Kareem	OK
63	P4739-05	BP-G2	SAM	11/08/24 18:17		Kareem	OK
64	P4739-09	BP-B2	SAM	11/08/24 18:21		Kareem	OK
65	P4739-13	TP-11	SAM	11/08/24 18:26		Kareem	OK
66	P4739-13DUP	TP-11DUP	DUP	11/08/24 18:30		Kareem	OK
67	P4739-13L	TP-11L	SD	11/08/24 18:34		Kareem	OK
68	P4739-13MS	TP-11MS	MS	11/08/24 18:38	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
69	P4739-13MSD	TP-11MSD	MSD	11/08/24 18:42	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

70	P4739-13A	TP-11A	PS	11/08/24 18:47	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
71	PB164757BL	PB164757BL	MB	11/08/24 18:51		Kareem	OK
72	CCV06	CCV06	CCV	11/08/24 18:55		Kareem	OK
73	CCB06	CCB06	CCB	11/08/24 18:59		Kareem	OK
74	PB164757BS	PB164757BS	LCS	11/08/24 19:03	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
75	P4733-01	402	SAM	11/08/24 19:08		Kareem	OK
76	P4733-01DUP	402DUP	DUP	11/08/24 19:12		Kareem	OK
77	P4733-01L	402L	SD	11/08/24 19:17		Kareem	OK
78	P4733-01MS	402MS	MS	11/08/24 19:21	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
79	P4733-01MSD	402MSD	MSD	11/08/24 19:25	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
80	P4733-01A	402A	PS	11/08/24 19:29	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
81	PB164758BL	PB164758BL	MB	11/08/24 19:34		Kareem	OK
82	PB164758BS	PB164758BS	LCS	11/08/24 19:38	0.1 ML OF M6001 AND M6010WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
83	P4718-04	WB-307-SW	SAM	11/08/24 19:42	Na (Oversaturated)	Kareem	Dilution
84	CCV07	CCV07	CCV	11/08/24 19:47		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

85	CCB07	CCB07	CCB	11/08/24 19:51		Kareem	OK
86	P4718-04DUP	WB-307-SWDUP	DUP	11/08/24 19:55	Na (Oversaturated)	Kareem	Dilution
87	P4718-04L	WB-307-SWL	SD	11/08/24 20:00	Na high	Kareem	Dilution
88	P4718-04MS	WB-307-SWMS	MS	11/08/24 20:04	Na (Oversaturated)	Kareem	Dilution
89	P4718-04MSD	WB-307-SWMSD	MSD	11/08/24 20:09	Na (Oversaturated)	Kareem	Dilution
90	P4718-04A	WB-307-SWA	PS	11/08/24 20:14	Na (Oversaturated)	Kareem	Dilution
91	P4736-02	COMP	SAM	11/08/24 20:18		Kareem	OK
92	PB164759BL	PB164759BL	MB	11/08/24 20:22	NOT USE - fail for Na	Kareem	Not Ok
93	PB164759BS	PB164759BS	LCS	11/08/24 20:27	NOT USE - fail for Na	Kareem	Not Ok
94	LR1	LR1	HIGH STD	11/08/24 20:38		Kareem	OK
95	LR2	LR2	HIGH STD	11/08/24 20:42		Kareem	OK
96	CCV08	CCV08	CCV	11/08/24 20:48		Kareem	OK
97	CCB08	CCB08	CCB	11/08/24 20:57		Kareem	OK
98	PB164646BL	PB164646BL	MB	11/08/24 21:02		Kareem	OK
99	PB164646BS	PB164646BS	LCS	11/08/24 21:06		Kareem	OK
100	PB164645BL	PB164645BL	MB	11/08/24 21:10	NOT USE	Kareem	Not Ok
101	PB164645BS	PB164645BS	LCS	11/08/24 21:14	NOT USE	Kareem	Not Ok
102	P4718-04DL	WB-307-SWDL	SAM	11/08/24 21:18	10x for Na	Kareem	Confirms
103	P4718-04DUPDL	WB-307-SWDUPDL	DUP	11/08/24 21:23	10x for Na	Kareem	Confirms
104	P4718-04LDL	WB-307-SWLDL	SD	11/08/24 21:27	50x for Na	Kareem	Confirms

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133365

Review By	jaswal	Review On	11/12/2024 1:04:50 PM
Supervise By	kareem	Supervise On	11/12/2024 2:08:18 PM

STD. NAME	STD REF.#
ICAL Standard	MP83078,MP83079,MP83080,MP83081,MP83082,MP83084
ICV Standard	MP83085
CCV Standard	MP83088
ICSA Standard	MP83086,MP83087
CRI Standard	MP83084
LCS Standard	
Chk Standard	MP83091,MP83092

105	P4718-04MSDL	WB-307-SWMSDL	MS	11/08/24 21:31	10x for Na	Kareem	Confirms
106	P4718-04MSDDL	WB-307-SWMSDDL	MSD	11/08/24 21:36	10x for Na	Kareem	Confirms
107	P4718-04ADL	WB-307-SWADL	PS	11/08/24 21:40	10x for Na	Kareem	Confirms
108	CCV09	CCV09	CCV	11/08/24 21:50		Kareem	OK
109	CCB09	CCB09	CCB	11/08/24 21:55		Kareem	OK
110	P4681-01	Q4-WW	SAM	11/08/24 21:59	NOT USE	Kareem	Not Ok
111	P4681-01DL	Q4-WWDL	SAM	11/08/24 22:24	Straight 25x Dilution for all elements	Kareem	OK
112	P4681-01DUPDL	Q4-WWDUPDL	DUP	11/08/24 22:29	Straight 25x Dilution for all elements	Kareem	OK
113	P4681-01LDL	Q4-WWLDL	SD	11/08/24 22:33	Straight 125x Dilution for all elements	Kareem	OK
114	P4681-01MSDL	Q4-WWMSDL	MS	11/08/24 22:44	Straight 25x Dilution for all elements	Kareem	OK
115	P4681-01MSDDL	Q4-WWMSDDL	MSD	11/08/24 22:53	Straight 25x Dilution for all elements	Kareem	OK
116	P4681-01ADL	Q4-WWADL	PS	11/08/24 23:07	Straight 25x Dilution for all elements	Kareem	OK
117	CCV10	CCV10	CCV	11/08/24 23:24		Kareem	OK
118	CCB10	CCB10	CCB	11/08/24 23:35		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133525

Review By	kareem	Review On	11/20/2024 11:34:50 AM
Supervise By	mohan	Supervise On	11/21/2024 1:10:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	mp83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	mp83084
LCS Standard	
Chk Standard	MP83091 MP83092

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/19/24 19:40		Kareem	OK
2	S1	S1	CAL2	11/19/24 19:45		Kareem	OK
3	S2	S2	CAL3	11/19/24 19:49		Kareem	OK
4	S3	S3	CAL4	11/19/24 19:53		Kareem	OK
5	S4	S4	CAL5	11/19/24 19:58		Kareem	OK
6	S5	S5	CAL6	11/19/24 20:02		Kareem	OK
7	ICV01	ICV01	ICV	11/19/24 20:06		Kareem	OK
8	LLICV01	LLICV01	LLICV	11/19/24 20:10		Kareem	OK
9	ICB01	ICB01	ICB	11/19/24 20:14		Kareem	OK
10	CRI01	CRI01	CRDL	11/19/24 20:19		Kareem	OK
11	ICSA01	ICSA01	ICSA	11/19/24 20:23		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	11/19/24 20:27		Kareem	OK
13	CCV01	CCV01	CCV	11/19/24 20:38		Kareem	OK
14	CCB01	CCB01	CCB	11/19/24 20:47		Kareem	OK
15	P4718-03DUP	WB-307-SB02DUP	DUP	11/19/24 20:56		Kareem	OK
16	P4718-03L	WB-307-SB02L	SD	11/19/24 21:01		Kareem	OK
17	P4718-03MS	WB-307-SB02MS	MS	11/19/24 21:05	0.1ML OF M6010 AND M6001 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
18	P4718-03	WB-307-SB02	SAM	11/19/24 21:09		Kareem	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB133525

Review By	kareem	Review On	11/20/2024 11:34:50 AM
Supervise By	mohan	Supervise On	11/21/2024 1:10:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP83078 MP83079 MP73080 MP83081 MP83082 MP83084
ICV Standard	mp83085
CCV Standard	MP83088
ICSA Standard	MP83086 MP83087
CRI Standard	mp83084
LCS Standard	
Chk Standard	MP83091 MP83092

19	P4718-03MSD	WB-307-SB02MSD	MSD	11/19/24 21:14	0.1ML OF M6010 AND M6001 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
20	P4718-03A	WB-307-SB02A	PS	11/19/24 21:18	0.1ML OF M6010 AND M6001 WERE ADDED TO 10 ML OF THE SAMPLE	Kareem	OK
21	P4341-01DL	10324-0DL	SAM	11/19/24 21:22	NOT USE	Kareem	Not Ok
22	LR1	LR1	HIGH STD	11/19/24 21:26		Kareem	OK
23	LR2	LR2	HIGH STD	11/19/24 21:31		Kareem	OK
24	CCV02	CCV02	CCV	11/19/24 21:36		Kareem	OK
25	CCB02	CCB02	CCB	11/19/24 21:42		Kareem	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164768

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/07/2024 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 11/07/2024 **Time :** 15:45 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: JSP

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6000
LFS-2	0.25	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
CONC: HNO3	3.00	M6117
1:1 HCL	5.00	MP83105
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL #50: 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24 16:00	JSP / Mutdig	
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB164768

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
P4718-03	WB-307-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	30
P4718-03DUP	WB-307-SB02DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	31
P4718-03MS	WB-307-SB02MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	32
P4718-03MSD	WB-307-SB02MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	33
P4719-03	BAYAVE-STOCKPILE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	34
P4720-05	JC-701-COMP-01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	35
P4722-04	WC-1(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	36
P4722-09	WC-2(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	37
P4722-14	WC-3(0-6)	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	38
P4732-02	PPE-COMP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	39
P4738-02	72-12018	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	40
P4739-04	TP-14	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	41
P4739-08	BP-G2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	42
P4739-12	BP-B2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	43
P4739-16	TP-11	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	44
PB164694TB	PB164694TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	45
PB164768BL	PBW768	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	46
PB164768BS	LCS768	<2	5	25	Colorless	Colorless	Clear	Clear	M6000,M6009	47

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164791

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M4909

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/07/2024 **Time :** 11:50 **Temp :** 95 °C

End Digest Date: 11/07/2024 **Time :** 13:50 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: [illegible]

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP83113
CCV	30mL	MP83115
CRA	30mL	MP83117
Blank Spike	0.48mL	MP83106
Matrix Spike	0.48mL	MP83106

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP82651
KMnO4 (5%)	4.5mL	MP82652
K2S2O8 (5%)	2.5mL	MP82653
Hydroxylamine HCL (12%)	2.0mL	MP82654
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	MP83107
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP83108
2.5 ppb	S2.5	30mL	MP83109
5.0 ppb	S5.0	30mL	MP83110
7.5 ppb	S7.5	30mL	MP83111
10.0 ppb	S10.0	30mL	MP83112
ICV	ICV	30mL	MP83113
ICB	ICB	30mL	MP83114
CCV	CCV	30mL	MP83115
CCB	CCB	30mL	MP83116
CRI	CRI	30mL	MP83117
CHK STD	CHK STD	30mL	MP83118

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 @14:26	MB - Dig. Lab	MB - Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB164791

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
P4718-03	WB-307-SB02	3	30	<2	N/A	3-1
P4718-03DUP	WB-307-SB02DUP	3	30	<2	N/A	2
P4718-03MS	WB-307-SB02MS	3	30	<2	MP83106	3
P4718-03MSD	WB-307-SB02MSD	3	30	<2	MP83106	4
P4719-03	BAYAVE-STOCKPILE	3	30	<2	N/A	5
P4720-05	JC-701-COMP-01	3	30	<2	N/A	6
P4722-04	WC-1(0-6)	3	30	<2	N/A	7
P4722-09	WC-2(0-6)	3	30	<2	N/A	8
P4722-14	WC-3(0-6)	3	30	<2	N/A	9
P4732-02	PPE-COMP	3	30	<2	N/A	10
P4738-02	72-12018	3	30	<2	N/A	11
P4739-04	TP-14	3	30	<2	N/A	12
P4739-08	BP-G2	3	30	<2	N/A	13
P4739-12	BP-B2	3	30	<2	N/A	14
P4739-16	TP-11	3	30	<2	N/A	15
PB164694TB	PB164694TB	3	30	<2	N/A	16
PB164791BL	PBW791	30	30	<2	N/A	17
PB164791BS	LCS791	30	30	<2	MP83106	18

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694 14

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 11/06/2024 **Time :** 16:45

End Prep Date : 11/07/2024 **Time :** 09:35

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 23 °C

TCLP Technician Signature :

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. p4718-03 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/07/24 11:00	SO / Cold Room	/
	Preparation Group	Analysis Group / GC-L

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164694

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4718-03	WB-307-SB02	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
P4719-03	BAYAVE-STOCKPILE	02	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4720-05	JC-701-COMP-01	03	100.04	2000	N/A	N/A	N/A	3.5	1.0	T-1
P4722-04	WC-1(0-6)	04	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4722-09	WC-2(0-6)	05	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
P4722-14	WC-3(0-6)	06	100.03	2000	N/A	N/A	N/A	6.2	1.5	T-1
P4732-02	PPE-COMP	07	100.00	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4738-02	72-12018	08	100.02	2000	N/A	N/A	N/A	4.5	1.5	T-1
P4739-04	TP-14	09	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
P4739-08	BP-G2	10	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4739-12	BP-B2	11	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-2
P4739-16	TP-11	12	100.04	2000	N/A	N/A	N/A	8.2	1.5	T-2
PB164694TB	LEB694	13	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB164694

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4718-03	WB-307-SB02	N/A	N/A	N/A	N/A	100	N/A
P4719-03	BAYAVE-STOCKPILE	N/A	N/A	N/A	N/A	100	N/A
P4720-05	JC-701-COMP-01	N/A	N/A	N/A	N/A	100	N/A
P4722-04	WC-1(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-09	WC-2(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4722-14	WC-3(0-6)	N/A	N/A	N/A	N/A	100	N/A
P4732-02	PPE-COMP	N/A	N/A	N/A	N/A	100	N/A
P4738-02	72-12018	N/A	N/A	N/A	N/A	100	N/A
P4739-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
P4739-08	BP-G2	N/A	N/A	N/A	N/A	100	N/A
P4739-12	BP-B2	N/A	N/A	N/A	N/A	100	N/A
P4739-16	TP-11	N/A	N/A	N/A	N/A	100	N/A
PB164694TB	LEB694	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164694

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4718-03	WB-307-SB02	5.02	96.5	8.4	3.0	#1	4.94
P4719-03	BAYAVE-STOCKPILE	5.01	96.5	8.4	3.0	#1	4.94
P4720-05	JC-701-COMP-01	5.02	96.5	6.0	2.0	#1	4.94
P4722-04	WC-1(0-6)	5.03	96.5	9.4	4.0	#1	4.94
P4722-09	WC-2(0-6)	5.02	96.5	9.0	3.5	#1	4.94
P4722-14	WC-3(0-6)	5.01	96.5	8.6	3.5	#1	4.94
P4732-02	PPE-COMP	5.00	96.5	8.4	3.0	#1	4.94
P4738-02	72-12018	5.02	96.5	7.0	2.5	#1	4.94
P4739-04	TP-14	5.03	96.5	7.2	2.5	#1	4.94
P4739-08	BP-G2	5.04	96.5	8.0	3.0	#1	4.94
P4739-12	BP-B2	5.02	96.5	7.6	2.5	#1	4.94
P4739-16	TP-11	5.01	96.5	10.0	4.0	#1	4.94
PB164694TB	LEB694	N/A	N/A	N/A	N/A	#1	4.94

SAMPLE DATA

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:	11/04/24 09:45
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB01	SDG No.:	P4718
Lab Sample ID:	P4718-01	Matrix:	SOIL
		% Solid:	78

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.10	U	1	0.10	0.51	mg/Kg	11/06/24 12:40	11/06/24 16:13	7196A
Trivalent Chromium	15.5		1	0.64	0.64	mg/Kg		11/07/24 23:26	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:	11/04/24 10:45
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-02	Matrix:	SOIL
		% Solid:	77.6

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.10	U	1	0.10	0.51	mg/Kg	11/06/24 12:40	11/06/24 16:16	7196A
Trivalent Chromium	5.65		1	0.64	0.64	mg/Kg		11/07/24 23:30	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:	11/04/24 10:45
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SB02	SDG No.:	P4718
Lab Sample ID:	P4718-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.36	H	1	0	0	pH		11/06/24 16:37	9045D
Ignitability	NO		1	0	0	oC		11/07/24 12:00	1030
Reactive Cyanide	0.016	J	1	0.0087	0.050	mg/Kg	11/06/24 12:50	11/06/24 15:34	9012B
Reactive Sulfide	1.60	J	1	0.19	10.0	mg/Kg	11/06/24 14:30	11/06/24 17:08	9034

Comments: pH result reported at temperature 24.7 °C

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:	11/04/24 08:20
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/05/24
Client Sample ID:	WB-307-SW	SDG No.:	P4718
Lab Sample ID:	P4718-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		11/05/24 14:59	7196A
trivalent Chromium	0.010	U	1	0.010	0.010	mg/L		11/08/24 19:42	6010D

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133305

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/05/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	11/05/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.502	0.5	100	90-110	11/05/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133318

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/06/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/06/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	11/06/2024
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	11/06/2024
Sample ID: CCV4						
Hexavalent Chromium	mg/L	0.500	0.5	100	90-110	11/06/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133321

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.096	0.099	97	85-115	11/06/2024
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	11/06/2024
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	11/06/2024
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	11/06/2024

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133322

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
Corrosivity	pH	7.02	7	100	90-110	11/06/2024
Sample ID: **CCV1**						
Corrosivity	pH	2.01	2.00	101	90-110	11/06/2024
Sample ID: **CCV2**						
Corrosivity	pH	12.02	12.00	100	90-110	11/06/2024
Sample ID: **CCV3**						
Corrosivity	pH	2.01	2.00	101	90-110	11/06/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133305

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	11/05/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/05/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/05/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133318

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	11/06/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/06/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/06/2024
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/06/2024
Sample ID: CCB4							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	11/06/2024

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**RunNo.:**	LB133321

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	0.0013	0.0025	J	0.00099	0.005	11/06/2024
Sample ID: CCB1							
Reactive Cyanide	mg/L	0.0016	0.0025	J	0.00099	0.005	11/06/2024
Sample ID: CCB2							
Reactive Cyanide	mg/L	0.0013	0.0025	J	0.00099	0.005	11/06/2024
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00099	0.005	11/06/2024

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** P4718

Project: Amtrak Sawtooth Bridges 2024

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133305BL							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	11/05/2024
Sample ID: PB164670BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	11/06/2024
Sample ID: PB164675BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.186	10	11/06/2024
Sample ID: PB164717BL							
Reactive Cyanide	mg/Kg	0.012	0.0250	J	0.0088	0.05	11/06/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4693-01
Client ID: BP-G5-WCMS
Percent Solids for Spike Sample: 86

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	1380		0.091	U	1490	40	93		11/06/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4693-01
Client ID: BP-G5-WCMS
Percent Solids for Spike Sample: 86

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	44.4		0.091	U	46.5	2	96		11/06/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4693-01
Client ID: BP-G5-WCMS
Percent Solids for Spike Sample: 86

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	35.8		0.091	U	46.5	2	77		11/06/2024

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4718-04
Client ID: WB-307-SWMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.99		0.0030	U	1.0	2	99		11/05/2024

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Fax : 908 789 8922

Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4718-04
Client ID: WB-307-SWMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.99		0.0030	U	1.0	2	99		11/05/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4693-01
Client ID: BP-G5-WCDUP
Percent Solids for Spike Sample: 86

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.091	U	0.091	U	1	0		11/06/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4700-01
Client ID: MH-8DUP
Percent Solids for Spike Sample: 91.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		11/07/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4700-04
Client ID: MH-8DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		11/06/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4718-04
Client ID: WB-307-SWDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		11/05/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4718-04
Client ID: WB-307-SWMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.99		0.99		2	0.4		11/05/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4722-14
Client ID: WC-3(0-6)DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.012	J	0.0088	U	1	200	*	11/06/2024
Ignitability	oC	+/-20	NO		NO		1	0		11/07/2024

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: P4718
Project: Amtrak Sawtooth Bridges 2024
Sample ID: P4739-16
Client ID: TP-11DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	10.1		10.1		1	0.1		11/06/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB133305

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133305BS								
Hexavalent Chromium	mg/L	0.5	0.51		103	1	90-111	11/05/2024

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	P4718
Project:	Amtrak Sawtooth Bridges 2024	**Run No.:**	LB133318

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB164670BS								
Hexavalent Chromium	mg/Kg	20	20.1		101	1	84-110	11/06/2024

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133305

Review By	rubina	Review On	11/6/2024 9:25:44 AM
Supervise By	Iwona	Supervise On	11/6/2024 10:00:35 AM
SubDirectory	LB133305	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	WP110555,WP110554,WP110552,WP110551,WP110515,WP110380,WP110553,WP110557,WP110558,WP110556

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/05/24 14:45		rubina	OK
2	CAL2	CAL2	CAL	11/05/24 14:46		rubina	OK
3	CAL3	CAL3	CAL	11/05/24 14:47		rubina	OK
4	CAL4	CAL4	CAL	11/05/24 14:48		rubina	OK
5	CAL5	CAL5	CAL	11/05/24 14:49		rubina	OK
6	CAL6	CAL6	CAL	11/05/24 14:50		rubina	OK
7	CAL7	CAL7	CAL	11/05/24 14:51		rubina	OK
8	ICV	ICV	ICV	11/05/24 14:52		rubina	OK
9	ICB	ICB	ICB	11/05/24 14:53		rubina	OK
10	CCV1	CCV1	CCV	11/05/24 14:54		rubina	OK
11	CCB1	CCB1	CCB	11/05/24 14:55		rubina	OK
12	RL Check	RL Check	SAM	11/05/24 14:56		rubina	OK
13	LB133305BL	LB133305BL	MB	11/05/24 14:57		rubina	OK
14	LB133305BS	LB133305BS	LCS	11/05/24 14:58		rubina	OK
15	P4718-04	WB-307-SW	SAM	11/05/24 14:59		rubina	OK
16	P4718-04DUP	WB-307-SWDUP	DUP	11/05/24 15:00		rubina	OK
17	P4718-04MS	WB-307-SWMS	MS	11/05/24 15:01		rubina	OK
18	P4718-04MSD	WB-307-SWMSD	MSD	11/05/24 15:02		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133305

Review By	rubina	Review On	11/6/2024 9:25:44 AM
Supervise By	Iwona	Supervise On	11/6/2024 10:00:35 AM
SubDirectory	LB133305	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	WP110555,WP110554,WP110552,WP110551,WP110515,WP110380,WP110553,WP110557,WP110558,WP110556

19	CCV2	CCV2	CCV	11/05/24 15:03		rubina	OK
20	CCB2	CCB2	CCB	11/05/24 15:04		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133318

Review By	rubina	Review On	11/6/2024 4:46:15 PM
Supervise By	jignesh	Supervise On	11/6/2024 4:57:39 PM
SubDirectory	LB133318	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	WP110515,WP110380,WP110381,WP108645

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/06/24 15:40		rubina	OK
2	CAL2	CAL2	CAL	11/06/24 15:41		rubina	OK
3	CAL3	CAL3	CAL	11/06/24 15:42		rubina	OK
4	CAL4	CAL4	CAL	11/06/24 15:43		rubina	OK
5	CAL5	CAL5	CAL	11/06/24 15:44		rubina	OK
6	CAL6	CAL6	CAL	11/06/24 15:45		rubina	OK
7	CAL7	CAL7	CAL	11/06/24 15:46		rubina	OK
8	ICV	ICV	ICV	11/06/24 15:47		rubina	OK
9	ICB	ICB	ICB	11/06/24 15:48		rubina	OK
10	CCV1	CCV1	CCV	11/06/24 15:49		rubina	OK
11	CCB1	CCB1	CCB	11/06/24 15:50		rubina	OK
12	RL Check	RL Check	SAM	11/06/24 15:51		rubina	OK
13	PB164670BL	PB164670BL	MB	11/06/24 15:52		rubina	OK
14	PB164670BS	PB164670BS	LCS	11/06/24 15:53		rubina	OK
15	P4452-04	ETGI-285	SAM	11/06/24 15:54		rubina	OK
16	P4693-01	BP-G5-WC	SAM	11/06/24 15:55		rubina	OK
17	P4693-01DUP	BP-G5-WCDUP	DUP	11/06/24 15:56		rubina	OK
18	P4693-01MSPre	BP-G5-WCMS	MS	11/06/24 15:57		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133318

Review By	rubina	Review On	11/6/2024 4:46:15 PM
Supervise By	jignesh	Supervise On	11/6/2024 4:57:39 PM
SubDirectory	LB133318	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	WP110515,WP110380,WP110381,WP108645

19	P4693-01MS2Ins	BP-G5-WCMS	MS	11/06/24 15:58		rubina	OK
20	P4693-01MS3Post	BP-G5-WCMS	MS	11/06/24 15:59		rubina	OK
21	P4693-05	BP-G4-WC	SAM	11/06/24 16:00		rubina	OK
22	P4694-01	Z-03A	SAM	11/06/24 16:01		rubina	OK
23	CCV2	CCV2	CCV	11/06/24 16:02		rubina	OK
24	CCB2	CCB2	CCB	11/06/24 16:03		rubina	OK
25	P4694-05	Z-04	SAM	11/06/24 16:04		rubina	OK
26	P4695-01	Z-01	SAM	11/06/24 16:05		rubina	OK
27	P4700-01	MH-8	SAM	11/06/24 16:06		rubina	OK
28	P4701-01	BP-F3	SAM	11/06/24 16:07		rubina	OK
29	P4701-05	BP-F4	SAM	11/06/24 16:08		rubina	OK
30	P4706-01	TR-04-110424	SAM	11/06/24 16:09		rubina	OK
31	P4708-01	OR-02-110424	SAM	11/06/24 16:10		rubina	OK
32	P4711-01	CF-613-COMP-16	SAM	11/06/24 16:11		rubina	OK
33	P4711-06	CF-613-COMP-17	SAM	11/06/24 16:12		rubina	OK
34	P4718-01	WB-307-SB01	SAM	11/06/24 16:13		rubina	OK
35	CCV3	CCV3	CCV	11/06/24 16:14		rubina	OK
36	CCB3	CCB3	CCB	11/06/24 16:15		rubina	OK
37	P4718-02	WB-307-SB02	SAM	11/06/24 16:16		rubina	OK
38	P4719-01	BAYAVE-STOCKPILE	SAM	11/06/24 16:17		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133318

Review By	rubina	Review On	11/6/2024 4:46:15 PM
Supervise By	jignesh	Supervise On	11/6/2024 4:57:39 PM
SubDirectory	LB133318	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	WP110515,WP110380,WP110381,WP108645

39	P4720-01	JC-701-COMP-01	SAM	11/06/24 16:18		rubina	OK
40	P4452-04DL	ETGI-285DL	SAM	11/06/24 16:19		rubina	OK
41	CCV4	CCV4	CCV	11/06/24 16:20		rubina	OK
42	CCB4	CCB4	CCB	11/06/24 16:21		rubina	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB133320

Review By	rubina	Review On	11/6/2024 5:29:49 PM
Supervise By	jignesh	Supervise On	11/6/2024 5:41:18 PM
SubDirectory	LB133320	Test	Reactive Sulfide

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	W3105,W3114,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB164675BL	PB164675BL	MB	11/06/24 16:50		rubina	OK
2	P4700-04	MH-8	SAM	11/06/24 16:53		rubina	OK
3	P4700-04DUP	MH-8DUP	DUP	11/06/24 16:55		rubina	OK
4	P4701-04	BP-F3	SAM	11/06/24 16:58		rubina	OK
5	P4701-08	BP-F4	SAM	11/06/24 17:00		rubina	OK
6	P4711-05	CF-613-COMP-16	SAM	11/06/24 17:02		rubina	OK
7	P4711-10	CF-613-COMP-17	SAM	11/06/24 17:05		rubina	OK
8	P4718-03	WB-307-SB02	SAM	11/06/24 17:08		rubina	OK
9	P4719-03	BAYAVE-STOCKPILE	SAM	11/06/24 17:10		rubina	OK
10	P4720-05	JC-701-COMP-01	SAM	11/06/24 17:13		rubina	OK
11	P4722-04	WC-1(0-6)	SAM	11/06/24 17:15		rubina	OK
12	P4722-09	WC-2(0-6)	SAM	11/06/24 17:18		rubina	OK
13	P4722-14	WC-3(0-6)	SAM	11/06/24 17:20		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133321

Review By	Niha	Review On	11/7/2024 9:24:40 AM
Supervise By	Iwona	Supervise On	11/7/2024 9:29:30 AM
SubDirectory	LB133321	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110566,WP110567,WP110568,WP110569,WP110570,WP110571,WP110572
ICV Standard	WP110574
CCV Standard	WP110567
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110573

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/06/24 12:22		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/06/24 12:22		Niha	OK
3	10PPBCN	10PPBCN	CAL3	11/06/24 12:22		Niha	OK
4	50PPBCN	50PPBCN	CAL4	11/06/24 12:22		Niha	OK
5	100PPBCN	100PPBCN	CAL5	11/06/24 12:22		Niha	OK
6	250PPBCN	250PPBCN	CAL6	11/06/24 12:23		Niha	OK
7	500PPBCN	500PPBCN	CAL7	11/06/24 12:23		Niha	OK
8	ICV1	ICV1	ICV	11/06/24 15:26		Niha	OK
9	ICB1	ICB1	ICB	11/06/24 15:26		Niha	OK
10	CCV1	CCV1	CCV	11/06/24 15:26		Niha	OK
11	CCB1	CCB1	CCB	11/06/24 15:26		Niha	OK
12	PB164717BL	PB164717BL	MB	11/06/24 15:26		Niha	OK
13	P4701-04	BP-F3	SAM	11/06/24 15:34		Niha	OK
14	P4701-08	BP-F4	SAM	11/06/24 15:34		Niha	OK
15	P4711-05	CF-613-COMP-16	SAM	11/06/24 15:34		Niha	OK
16	P4711-10	CF-613-COMP-17	SAM	11/06/24 15:34		Niha	OK
17	P4718-03	WB-307-SB02	SAM	11/06/24 15:34		Niha	OK
18	P4719-03	BAYAVE-STOCKPILE	SAM	11/06/24 15:34		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB133321

Review By	Niha	Review On	11/7/2024 9:24:40 AM
Supervise By	Iwona	Supervise On	11/7/2024 9:29:30 AM
SubDirectory	LB133321	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP110566,WP110567,WP110568,WP110569,WP110570,WP110571,WP110572
ICV Standard	WP110574
CCV Standard	WP110567
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109068,WP110103,WP110573

19	P4720-05	JC-701-COMP-01	SAM	11/06/24 15:34		Niha	OK
20	P4722-04	WC-1(0-6)	SAM	11/06/24 15:34		Niha	OK
21	P4700-04	MH-8	SAM	11/06/24 15:34		Niha	OK
22	CCV2	CCV2	CCV	11/06/24 15:34		Niha	OK
23	CCB2	CCB2	CCB	11/06/24 15:40		Niha	OK
24	P4722-09	WC-2(0-6)	SAM	11/06/24 15:40		Niha	OK
25	P4732-02	PPE-COMP	SAM	11/06/24 15:40		Niha	OK
26	P4722-14	WC-3(0-6)	SAM	11/06/24 15:40		Niha	OK
27	P4722-14DUP	WC-3(0-6)DUP	DUP	11/06/24 15:40		Niha	OK
28	CCV3	CCV3	CCV	11/06/24 15:40		Niha	OK
29	CCB3	CCB3	CCB	11/06/24 15:40		Niha	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133322

Review By	jignesh	Review On	11/7/2024 9:53:18 AM
Supervise By	sohil	Supervise On	11/7/2024 10:36:00 AM
SubDirectory	LB133322	Test	Corrosivity

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	W3107,W3093,W3094,W3071,W3005,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	11/06/24 16:20		Jignesh	OK
2	CAL2	CAL2	CAL	11/06/24 16:21		Jignesh	OK
3	CAL3	CAL3	CAL	11/06/24 16:22		Jignesh	OK
4	ICV	ICV	ICV	11/06/24 16:25		Jignesh	OK
5	CCV1	CCV1	CCV	11/06/24 16:30		Jignesh	OK
6	P4495-02	PT-CORR-SOIL	SAM	11/06/24 16:33		Jignesh	OK
7	P4718-03	WB-307-SB02	SAM	11/06/24 16:37		Jignesh	OK
8	P4719-03	BAYAVE-STOCKPILE	SAM	11/06/24 16:40		Jignesh	OK
9	P4720-05	JC-701-COMP-01	SAM	11/06/24 16:44		Jignesh	OK
10	P4722-04	WC-1(0-6)	SAM	11/06/24 16:47		Jignesh	OK
11	P4722-09	WC-2(0-6)	SAM	11/06/24 16:50		Jignesh	OK
12	P4722-14	WC-3(0-6)	SAM	11/06/24 16:52		Jignesh	OK
13	P4732-02	PPE-COMP	SAM	11/06/24 17:00		Jignesh	OK
14	P4738-02	72-12018	SAM	11/06/24 17:10		Jignesh	OK
15	P4739-04	TP-14	SAM	11/06/24 17:15		Jignesh	OK
16	CCV2	CCV2	CCV	11/06/24 17:17		Jignesh	OK
17	P4739-08	BP-G2	SAM	11/06/24 17:20		Jignesh	OK
18	P4739-12	BP-B2	SAM	11/06/24 17:25		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB133322

Review By	jignesh	Review On	11/7/2024 9:53:18 AM
Supervise By	sohil	Supervise On	11/7/2024 10:36:00 AM
SubDirectory	LB133322	Test	Corrosivity

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	W3107,W3093,W3094,W3071,W3005,W3072

19	P4739-16	TP-11	SAM	11/06/24 17:30		Jignesh	OK
20	P4739-16DUP	TP-11DUP	DUP	11/06/24 17:31		Jignesh	OK
21	CCV3	CCV3	CCV	11/06/24 17:35		Jignesh	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB133328

Review By	rubina	Review On	11/7/2024 1:28:46 PM
Supervise By	jignesh	Supervise On	11/7/2024 1:32:03 PM
SubDirectory	LB133328	Test	Ignitability

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	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	P4700-01	MH-8	SAM	11/07/24 10:15		rubina	OK
2	P4700-01DUP	MH-8DUP	DUP	11/07/24 10:22		rubina	OK
3	P4700-04	MH-8	SAM	11/07/24 10:30		rubina	OK
4	P4701-01	BP-F3	SAM	11/07/24 10:37		rubina	OK
5	P4701-04	BP-F3	SAM	11/07/24 10:45		rubina	OK
6	P4701-05	BP-F4	SAM	11/07/24 10:52		rubina	OK
7	P4701-08	BP-F4	SAM	11/07/24 11:00		rubina	OK
8	P4703-02	0910	SAM	11/07/24 11:07		rubina	OK
9	P4703-03	1008	SAM	11/07/24 11:15		rubina	OK
10	P4705-01	1024	SAM	11/07/24 11:22		rubina	OK
11	P4711-01	CF-613-COMP-16	SAM	11/07/24 11:30		rubina	OK
12	P4711-05	CF-613-COMP-16	SAM	11/07/24 11:37		rubina	OK
13	P4711-06	CF-613-COMP-17	SAM	11/07/24 11:45		rubina	OK
14	P4711-10	CF-613-COMP-17	SAM	11/07/24 11:52		rubina	OK
15	P4718-03	WB-307-SB02	SAM	11/07/24 12:00		rubina	OK
16	P4719-01	BAYAVE-STOCKPILE	SAM	11/07/24 12:07		rubina	OK
17	P4719-03	BAYAVE-STOCKPILE	SAM	11/07/24 12:15		rubina	OK
18	P4720-01	JC-701-COMP-01	SAM	11/07/24 12:22		rubina	OK

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

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB133328

Review By	rubina	Review On	11/7/2024 1:28:46 PM
Supervise By	jignesh	Supervise On	11/7/2024 1:32:03 PM
SubDirectory	LB133328	Test	Ignitability

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	N/A

19	P4720-05	JC-701-COMP-01	SAM	11/07/24 12:30		rubina	OK
20	P4722-04	WC-1(0-6)	SAM	11/07/24 12:37		rubina	OK
21	P4722-09	WC-2(0-6)	SAM	11/07/24 12:45		rubina	OK
22	P4722-14	WC-3(0-6)	SAM	11/07/24 12:52		rubina	OK
23	P4722-14DUP	WC-3(0-6)DUP	DUP	11/07/24 13:00		rubina	OK

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LAB CHRONICLE

OrderID:	P4718	**OrderDate:**	11/5/2024 1:31:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	L21,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4718-01	**WB-307-SB01**	**SOIL**			**11/04/24 09:45**			**11/05/24**
			Hexavalent Chromium	7196A		11/06/24	11/06/24 16:13	
			Trivalent Chromium	6010D			11/07/24 23:26	
P4718-02	**WB-307-SB02**	**SOIL**			**11/04/24 10:45**			**11/05/24**
			Hexavalent Chromium	7196A		11/06/24	11/06/24 16:16	
			Trivalent Chromium	6010D			11/07/24 23:30	
P4718-03	**WB-307-SB02**	**SOIL**			**11/04/24 10:45**			**11/05/24**
			Corrosivity	9045D			11/06/24 16:37	
			Ignitability	1030			11/07/24 12:00	
			Reactive Cyanide	9012B		11/06/24	11/06/24 15:34	
			Reactive Sulfide	9034		11/06/24	11/06/24 17:08	
P4718-04	**WB-307-SW**	**WATER**			**11/04/24 08:20**			**11/05/24**
			Hexavalent Chromium	7196A			11/05/24 14:59	
			trivalent Chromium	6010D			11/08/24 19:42	

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB164670

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : RM

Start Digest Date: 11/06/2024 **Time :** 12:40 **Temp :** 90 °C

End Digest Date: 11/06/2024 **Time :** 13:40 **Temp :** 95 °C

fl bath 11/06/2024 14:00 90 c JRH
11/06/2024 15:00 95 c

Digestion tube ID : M5595

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: RH

Supervisor Signature: IZ

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	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP110092
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP110564
CAL3	CAL3	0.5ML	WP110564
CAL4	CAL4	1ML	WP110564
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:

11/06/2024 RH

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

PB164670

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4452-04	ETGI-285	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4693-01DUP	BP-G5-WCDUP	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4693-01MSPre	BP-G5-WCMSPRE	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4693-01MS2Ins	BP-G5-WCMS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4693-01MS3Post	BP-G5-WCMS3POST	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4693-01	BP-G5-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4693-05	BP-G4-WC	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4694-01	Z-03A	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4694-05	Z-04	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4695-01	Z-01	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4700-01	MH-8	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4701-01	BP-F3	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
P4701-05	BP-F4	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
P4706-01	TR-04-110424	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4708-01	OR-02-110424	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4711-01	CF-613-COMP-16	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
P4711-06	CF-613-COMP-17	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4718-01	WB-307-SB01	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
P4718-02	WB-307-SB02	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4719-01	BAYAVE-STOCKPILE	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
P4720-01	JC-701-COMP-01	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164670BL	PBS670	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB164670BS	LCS670	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB164675

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : RM

Start Digest Date: 11/06/2024 **Time :** 14:30 **Temp :** N/A

End Digest Date: 11/06/2024 **Time :** 16:00 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature: JB

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
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
0.5M ZINC ACETATE	5.0ML	WP108780
FORMALDEHYDE	2.0ML	W2725
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:

11/06/2024 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB164675

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4700-04	MH-8	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
P4700-04DUP	MH-8DUP	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
P4701-04	BP-F3	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4701-08	BP-F4	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4711-05	CF-613-COMP-16	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4711-10	CF-613-COMP-17	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4718-03	WB-307-SB02	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4719-03	BAYAVE-STOCKPILE	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
P4720-05	JC-701-COMP-01	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
P4722-04	WC-1(0-6)	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4722-09	WC-2(0-6)	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4722-14	WC-3(0-6)	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164675BL	PBS675	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB164717

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A **Start Digest Date:** 11/06/2024 **Time :** 12:50 **Temp :** N/A

Matrix : SOLID **End Digest Date:** 11/06/2024 **Time :** 14:20 **Temp :** N/A

Pippete ID : N/A

Balance ID : WC SC-4

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

Block ID : MC-1, MC-2 **Filter paper ID :** N/A **Prep Technician Signature:** NF

Weigh By : NF **pH Meter ID :** N/A **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
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
0.25N NaOH	N/A	WP108640
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

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11.06.2024, 14:30	NF(WC)	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB164717

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P4700-04	MH-8	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
P4701-04	BP-F3	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4701-08	BP-F4	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4711-05	CF-613-COMP-16	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4711-10	CF-613-COMP-17	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4718-03	WB-307-SB02	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4719-03	BAYAVE-STOCKPILE	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4720-05	JC-701-COMP-01	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
P4722-04	WC-1(0-6)	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
P4722-09	WC-2(0-6)	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
P4722-14	WC-3(0-6)	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4722-14DUP	WC-3(0-6)DUP	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
P4732-02	PPE-COMP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
PB164717BL	PBS717	5.00	50	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. P4718
QUOTE NO.
COC Number 2042034

16
16.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Glannett Fleming
ADDRESS: 1010 Adams Avenue
CITY Audobon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-301-8432 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's Sep. of SB
PROJECT NO.: 95000008.78 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@bamays-corb.
PHONE: 610-301-8362 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St.
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE:

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 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT BEM EDD.

ANALYSIS

1 TCL VOC+TIC
2 TCL PAH
3 TAL Metals
4 PCB's
5 Cr(III), Cr(VI)
6 EPH
7 TOX
8 FUMA TCLP
9 RCRA Parameters

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A		B		F					← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	WB-307-SW	GW		X	11/04	8:20	7	X	X	X	X	X	X				
2.	WB-307-SB01	S	X		11/04	9:45	10	X	X	X	X	X	X				
3.	WB-307-SB02	S	X		11/04	10:45	10	X	X	X	X	X	X	X	X	X	
4.	TB-11042024																
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. Yasmida	11/6/24 11:19	1.
2.		2.
3.	11.3.2024 12:15	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☑ COOLER TEMP 4.0 °C
Comments: No, ICE.

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4718 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 11/5/2024 1:31:00 PM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 11/5/2024 12:15:00 PM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4718-01	WB-307-SB01	Solid	11/04/2024	09:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4718-02	WB-307-SB02	Solid	11/04/2024	09:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4718-04	WB-307-SW	Water	11/04/2024	08:20					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
P4718-05	TB-11042024	Water	11/04/2024	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 11.5.2024 1427

Received By :
Date / Time : 11-5-2024 14:27

Storage Area : VOA Refridgerator Room