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Fax : 908 789 8922

DATA PACKAGE

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

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2025

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : Q1744

ATTENTION : Joseph Krupansky

Laboratory Certification ID # 20012

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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : CHEMTECH

Client : Portal Partners Tri-Venture

Project Location :

Project Number : 9500000878 - Amtrak Sawtooth Bridges 2025

Laboratory Sample ID(s) : Q1744

Sampling Date(s) : 4/05/2025

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **,1030,1311,1311,ZHE,6010D,7196A,7470A,7471B,8015D,8081B,8082A,8151A, 8260D,8270E,9012B,9034,9045D,NJEPH,SOP**

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

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

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Cover Page

Order ID : Q1744

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1744-01	B-158-SB01
Q1744-02	B-158-SB01
Q1744-03	B-158-SB02
Q1744-04	B-158-SB02

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

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:35 pm, Apr 18, 2025

Date: 4/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
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 (82Y032725S.M) for Methylene Chloride is passing on Linear Regression.

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.

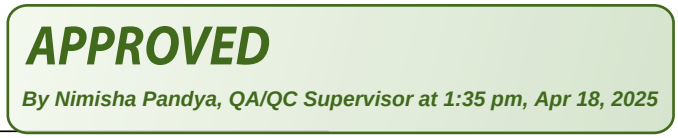
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Trip Blank was not provided with this set of samples.
The soil samples results are based on a dry weight basis.

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.

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, Trivalent Chromium 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.

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

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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_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 1:35 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

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

C. Analytical Techniques:
The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

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

The MS {Q1744-01MS} with File ID: BM049865.D recoveries met the requirements for all compounds except for 2,4-Dimethylphenol[144%], 3,3-Dichlorobenzidine[31%], 3-Nitroaniline[28%], 4-Chloroaniline[23%], Atrazine[139%] and Hexachlorocyclopentadiene [176%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, due to matrix interference therefore no corrective action is required .
.
The MSD {Q1744-01MSD} with File ID: BM049866.D recoveries met the acceptable requirements except for 2,4-Dimethylphenol[150%], 3,3-Dichlorobenzidine[32%], 3-Nitroaniline[28%], Atrazine[144%] and Hexachlorocyclopentadiene[184%],these compounds did not meet the NJDKQP criteria and in-house criteria, while 4-

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Chloroaniline[25%],this compound did not meet the NJDKQP criteria but met the in-house criteria, due to matrix interference therefore no corrective action is required.

The RPD met criteria .

The Blank Spike for {PB167509BS} with File ID: BM049947.D met requirements for all samples except for 3-Nitroaniline[65%], 4-Chloroaniline[48%] and Hexachlorocyclopentadiene[164%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

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

The % RSD is greater than 20% in the Initial Calibration (8270-BM040825.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration File ID BM049944.D met the requirements except for Atrazine and Benzaldehyde, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

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

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By Nimisha Pandya, QA/QC Supervisor at 1:35 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

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

C. Analytical Techniques:
The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe 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 PB167537BS [2,4,6-Tribromophenol - 111%], B-158-SB01 [2,4,6-Tribromophenol - 112%], IB-1.5-WCMS [2,4,6-Tribromophenol - 133%], IB-1.5-WCMSD [2,4 and6-Tribromophenol - 119%], these compounds 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 {Q1748-04MS} with File ID: BP024265.D recoveries met the requirements for all compounds except for 2,4-Dinitrotoluene[132%], this compound did not meet the NJDKQP criteria but met the in-house criteria .

The MSD recoveries met the acceptable requirements .

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The RPD for {Q1748-04MSD} with File ID: BP024266.D met criteria except for Pyridine[23%], this compound did not meet the NJDKQP criteria and in-house criteria but due to difference in results of MS and MSD.

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.

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Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:35 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: TCLP Pesticide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, Trivalent Chromium 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-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.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:

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

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Signature_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:36 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: PCB

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

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

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

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

The Surrogate recoveries met the acceptable criteria except for B-158-SB01 [Tetrachloro-m-xylene(2) - 151%]this compound did not meet the NJDKQP criteria and in-house criteria, AS per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken.

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:
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.

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: TCLP Herbicide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, Trivalent Chromium 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 WC-LIQUID-20250404MSD [2,4-DCAA(2) - 131%] & B-158-SB01 [2,4-DCAA(1) - 146%, 2 and4-DCAA(2) - 139%] these compound 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.

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Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 1:36 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: TPH GC

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

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

C. Analytical Techniques:
The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of TPH GC was based on method 8015D and extraction was done based on method 3541.

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

E. Additional Comments:
The 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.

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

Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:36 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: EPH

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

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

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

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

The MS {Q1746-01MS} with File ID: FD049276.D recoveries met the requirements for all compounds except for Aromatic C10-C12[34.9%] Due to matrix interference.

The MSD {Q1746-01MSD} with File ID: FD049277.D recoveries met the acceptable requirements except for Aromatic C10-C12[35%] Due to matrix interference.

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

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E. Additional Comments:

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

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 1:36 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate (WC-2MSD) analysis met criteria for all samples except for Mercury due to matrix interference.
The Matrix Spike (WC-2MS) analysis met criteria for all samples except for Mercury due to matrix interference.
The Matrix Spike Duplicate (IB-6.5-WCMSD) analysis met criteria for all samples except for Beryllium due to matrix interference.
The Matrix Spike Duplicate (WC-2MSD) analysis met criteria for all samples except for Mercury due to matrix interference.
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 APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:36 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, Trivalent Chromium 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 (TP-16MS) analysis met criteria for all samples except for Barium due to matrix interference.
The Matrix Spike Duplicate (TP-16MSD) analysis met criteria for all samples except for Barium due to matrix interference.
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_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:36 pm, Apr 18, 2025

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1744
Test Name: Hexavalent Chromium,Corrosivity,pH,Trivalent Chromium,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 04/07/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, 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, TPH GC, Trivalent Chromium and VOC-TCLVOA-10. This data package contains results for Hexavalent Chromium, Corrosivity, pH, 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, pH was based on method 9045D.

D. QA/ QC Samples:

The Holding Times were met for all samples except for B-158-SB01 of pH, for B-158-SB01 of Corrosivity. for B-158-SB02 of pH. for B-158-SB02 of Corrosivity as samples were receive out of holding time.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

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 1:37 pm, Apr 18, 2025

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DATA REPORTING QUALIFIERS- INORGANIC

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

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

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1744

	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:** 04/18/2025

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Hit Summary Sheet
SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**B-158-SB02**							
Q1744-03	B-158-SB02	SOIL	Acetone	340		7.90	41.8	ug/Kg
Q1744-03	B-158-SB02	SOIL	2-Butanone	84.8		10.9	41.8	ug/Kg
			Total Voc :	425				
			Total Concentration:	425				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90
Sample Wt/Vol:	7.42 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
VY021835.D	1		04/10/25 14:03	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	0.85	U	0.85	3.70	ug/Kg
74-87-3	Chloromethane	0.85	U	0.85	3.70	ug/Kg
75-01-4	Vinyl Chloride	0.59	U	0.59	3.70	ug/Kg
74-83-9	Bromomethane	0.80	U	0.80	3.70	ug/Kg
75-00-3	Chloroethane	0.94	U	0.94	3.70	ug/Kg
75-69-4	Trichlorofluoromethane	0.91	U	0.91	3.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	0.79	U	0.79	3.70	ug/Kg
75-35-4	1,1-Dichloroethene	0.75	U	0.75	3.70	ug/Kg
67-64-1	Acetone	3.50	U	3.50	18.7	ug/Kg
75-15-0	Carbon Disulfide	0.79	U	0.79	3.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.55	U	0.55	3.70	ug/Kg
79-20-9	Methyl Acetate	1.20	U	1.20	3.70	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.50	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.64	U	0.64	3.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.60	U	0.60	3.70	ug/Kg
110-82-7	Cyclohexane	0.59	U	0.59	3.70	ug/Kg
78-93-3	2-Butanone	4.90	U	4.90	18.7	ug/Kg
56-23-5	Carbon Tetrachloride	0.73	U	0.73	3.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	3.70	ug/Kg
74-97-5	Bromochloromethane	0.86	U	0.86	3.70	ug/Kg
67-66-3	Chloroform	0.63	U	0.63	3.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.70	U	0.70	3.70	ug/Kg
108-87-2	Methylcyclohexane	0.68	U	0.68	3.70	ug/Kg
71-43-2	Benzene	0.59	U	0.59	3.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.59	U	0.59	3.70	ug/Kg
79-01-6	Trichloroethene	0.61	U	0.61	3.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.68	U	0.68	3.70	ug/Kg
75-27-4	Bromodichloromethane	0.58	U	0.58	3.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.70	U	2.70	18.7	ug/Kg
108-88-3	Toluene	0.58	U	0.58	3.70	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90
Sample Wt/Vol:	7.42 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
VY021835.D	1		04/10/25 14:03	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.49	U	0.49	3.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.46	U	0.46	3.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.69	U	0.69	3.70	ug/Kg
591-78-6	2-Hexanone	2.80	U	2.80	18.7	ug/Kg
124-48-1	Dibromochloromethane	0.65	U	0.65	3.70	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	3.70	ug/Kg
127-18-4	Tetrachloroethene	0.79	U	0.79	3.70	ug/Kg
108-90-7	Chlorobenzene	0.68	U	0.68	3.70	ug/Kg
100-41-4	Ethyl Benzene	0.50	U	0.50	3.70	ug/Kg
179601-23-1	m/p-Xylenes	0.93	U	0.93	7.50	ug/Kg
95-47-6	o-Xylene	0.61	U	0.61	3.70	ug/Kg
100-42-5	Styrene	0.53	U	0.53	3.70	ug/Kg
75-25-2	Bromoform	0.64	U	0.64	3.70	ug/Kg
98-82-8	Isopropylbenzene	0.58	U	0.58	3.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U	0.91	3.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.30	U	1.30	3.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.20	U	1.20	3.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.10	U	1.10	3.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.40	U	1.40	3.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.20	U	2.20	3.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.40	U	2.40	3.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.3		70 (63) - 130 (155)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.5		70 (38) - 130 (136)	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	7.713			
540-36-3	1,4-Difluorobenzene	410000	8.616			
3114-55-4	Chlorobenzene-d5	351000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	126000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	90
Sample Wt/Vol:	7.42 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
VY021835.D	1		04/10/25 14:03	VY041025

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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	56
Sample Wt/Vol:	5.34 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
VY021836.D	1		04/10/25 14:26	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.90	U	1.90	8.40	ug/Kg
74-87-3	Chloromethane	1.90	U	1.90	8.40	ug/Kg
75-01-4	Vinyl Chloride	1.30	U	1.30	8.40	ug/Kg
74-83-9	Bromomethane	1.80	U	1.80	8.40	ug/Kg
75-00-3	Chloroethane	2.10	U	2.10	8.40	ug/Kg
75-69-4	Trichlorofluoromethane	2.00	U	2.00	8.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	1.80	8.40	ug/Kg
75-35-4	1,1-Dichloroethene	1.70	U	1.70	8.40	ug/Kg
67-64-1	Acetone	340		7.90	41.8	ug/Kg
75-15-0	Carbon Disulfide	1.80	U	1.80	8.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.20	U	1.20	8.40	ug/Kg
79-20-9	Methyl Acetate	2.60	U	2.60	8.40	ug/Kg
75-09-2	Methylene Chloride	5.90	U	5.90	16.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.40	U	1.40	8.40	ug/Kg
75-34-3	1,1-Dichloroethane	1.30	U	1.30	8.40	ug/Kg
110-82-7	Cyclohexane	1.30	U	1.30	8.40	ug/Kg
78-93-3	2-Butanone	84.8		10.9	41.8	ug/Kg
56-23-5	Carbon Tetrachloride	1.60	U	1.60	8.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.30	U	1.30	8.40	ug/Kg
74-97-5	Bromochloromethane	1.90	U	1.90	8.40	ug/Kg
67-66-3	Chloroform	1.40	U	1.40	8.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.60	U	1.60	8.40	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	1.50	8.40	ug/Kg
71-43-2	Benzene	1.30	U	1.30	8.40	ug/Kg
107-06-2	1,2-Dichloroethane	1.30	U	1.30	8.40	ug/Kg
79-01-6	Trichloroethene	1.40	U	1.40	8.40	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	1.50	8.40	ug/Kg
75-27-4	Bromodichloromethane	1.30	U	1.30	8.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	6.00	U	6.00	41.8	ug/Kg
108-88-3	Toluene	1.30	U	1.30	8.40	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	56
Sample Wt/Vol:	5.34 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
VY021836.D	1		04/10/25 14:26	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.10	U	1.10	8.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.00	U	1.00	8.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	1.50	8.40	ug/Kg
591-78-6	2-Hexanone	6.20	U	6.20	41.8	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	1.50	8.40	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	1.50	8.40	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	1.80	8.40	ug/Kg
108-90-7	Chlorobenzene	1.50	U	1.50	8.40	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	8.40	ug/Kg
179601-23-1	m/p-Xylenes	2.10	U	2.10	16.7	ug/Kg
95-47-6	o-Xylene	1.40	U	1.40	8.40	ug/Kg
100-42-5	Styrene	1.20	U	1.20	8.40	ug/Kg
75-25-2	Bromoform	1.40	U	1.40	8.40	ug/Kg
98-82-8	Isopropylbenzene	1.30	U	1.30	8.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.00	U	2.00	8.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.90	U	2.90	8.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.60	U	2.60	8.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.40	U	2.40	8.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.10	U	3.10	8.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	5.00	8.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.30	U	5.30	8.40	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.9		70 (63) - 130 (155)	112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (70) - 130 (134)	105%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (74) - 130 (123)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.6		70 (38) - 130 (136)	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	222000	7.707			
540-36-3	1,4-Difluorobenzene	408000	8.616			
3114-55-4	Chlorobenzene-d5	346000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	56
Sample Wt/Vol:	5.34 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
VY021836.D	1		04/10/25 14:26	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1744-01	B-158-SB01	1,2-Dichloroethane-d4	50	57.3	115	70 (63)	130 (155)
		Dibromofluoromethane	50	52.6	105	70 (70)	130 (134)
		Toluene-d8	50	49.1	98	70 (74)	130 (123)
		4-Bromofluorobenzene	50	40.5	81	70 (38)	130 (136)
Q1744-03	B-158-SB02	1,2-Dichloroethane-d4	50	55.9	112	70 (63)	130 (155)
		Dibromofluoromethane	50	52.6	105	70 (70)	130 (134)
		Toluene-d8	50	49.1	98	70 (74)	130 (123)
		4-Bromofluorobenzene	50	37.6	75	70 (38)	130 (136)
VY0410SBL01	VY0410SBL01	1,2-Dichloroethane-d4	50	46.6	93	70 (63)	130 (155)
		Dibromofluoromethane	50	49.9	100	70 (70)	130 (134)
		Toluene-d8	50	48.5	97	70 (74)	130 (123)
		4-Bromofluorobenzene	50	38.3	77	70 (38)	130 (136)
VY0410SBS01	VY0410SBS01	1,2-Dichloroethane-d4	50	49.2	98	70 (63)	130 (155)
		Dibromofluoromethane	50	53.4	107	70 (70)	130 (134)
		Toluene-d8	50	54.3	109	70 (74)	130 (123)
		4-Bromofluorobenzene	50	53.3	107	70 (38)	130 (136)
VY0410SBSD01	VY0410SBSD01	1,2-Dichloroethane-d4	50	48.5	97	70 (63)	130 (155)
		Dibromofluoromethane	50	50.9	102	70 (70)	130 (134)
		Toluene-d8	50	51.4	103	70 (74)	130 (123)
		4-Bromofluorobenzene	50	50.7	101	70 (38)	130 (136)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021828.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0410SBS01	Dichlorodifluoromethane	20	18.4	ug/Kg	92			40 (64)	160 (136)	
	Chloromethane	20	19.9	ug/Kg	100			40 (70)	160 (130)	
	Vinyl chloride	20	19.2	ug/Kg	96			70 (72)	130 (129)	
	Bromomethane	20	19.0	ug/Kg	95			40 (58)	160 (141)	
	Chloroethane	20	19.3	ug/Kg	97			40 (69)	160 (130)	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			40 (69)	160 (134)	
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103			70 (81)	130 (123)	
	1,1-Dichloroethene	20	20.0	ug/Kg	100			70 (79)	130 (121)	
	Acetone	100	92.0	ug/Kg	92			40 (60)	160 (131)	
	Carbon disulfide	20	18.6	ug/Kg	93			40 (45)	160 (154)	
	Methyl tert-butyl Ether	20	17.4	ug/Kg	87			70 (77)	130 (129)	
	Methyl Acetate	20	18.0	ug/Kg	90			70 (69)	130 (149)	
	Methylene Chloride	20	20.7	ug/Kg	104			70 (56)	130 (174)	
	trans-1,2-Dichloroethene	20	19.6	ug/Kg	98			70 (80)	130 (123)	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			70 (82)	130 (123)	
	Cyclohexane	20	18.4	ug/Kg	92			70 (76)	130 (122)	
	2-Butanone	100	87.3	ug/Kg	87			40 (69)	160 (131)	
	Carbon Tetrachloride	20	20.6	ug/Kg	103			70 (76)	130 (129)	
	cis-1,2-Dichloroethene	20	19.7	ug/Kg	99			70 (82)	130 (123)	
	Bromochloromethane	20	19.5	ug/Kg	98			70 (80)	130 (127)	
	Chloroform	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			70 (80)	130 (126)	
	Methylcyclohexane	20	19.6	ug/Kg	98			70 (77)	130 (123)	
	Benzene	20	20.4	ug/Kg	102			70 (84)	130 (121)	
	1,2-Dichloroethane	20	20.1	ug/Kg	101			70 (81)	130 (126)	
	Trichloroethene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,2-Dichloropropane	20	20.7	ug/Kg	104			70 (83)	130 (122)	
	Bromodichloromethane	20	20.4	ug/Kg	102			70 (82)	130 (123)	
	4-Methyl-2-Pentanone	100	85.8	ug/Kg	86			40 (70)	160 (135)	
	Toluene	20	21.0	ug/Kg	105			70 (83)	130 (122)	
	t-1,3-Dichloropropene	20	19.2	ug/Kg	96			70 (78)	130 (124)	
	cis-1,3-Dichloropropene	20	19.5	ug/Kg	98			70 (81)	130 (122)	
	1,1,2-Trichloroethane	20	20.0	ug/Kg	100			70 (82)	130 (125)	
	2-Hexanone	100	86.4	ug/Kg	86			40 (66)	160 (138)	
	Dibromochloromethane	20	20.1	ug/Kg	101			70 (79)	130 (125)	
	1,2-Dibromoethane	20	20.0	ug/Kg	100			70 (80)	130 (125)	
	Tetrachloroethene	20	20.9	ug/Kg	104			70 (83)	130 (125)	
	Chlorobenzene	20	20.6	ug/Kg	103			70 (84)	130 (122)	
	Ethyl Benzene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	m/p-Xylenes	40	42.1	ug/Kg	105			70 (83)	130 (124)	
	o-Xylene	20	20.4	ug/Kg	102			70 (83)	130 (123)	
	Styrene	20	20.5	ug/Kg	103			70 (82)	130 (124)	
	Bromoform	20	19.5	ug/Kg	98			70 (75)	130 (127)	
	Isopropylbenzene	20	19.7	ug/Kg	99			70 (82)	130 (124)	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/Kg	91			70 (77)	130 (127)	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			70 (83)	130 (122)	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			70 (84)	130 (121)	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			70 (83)	130 (124)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021828.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0410SBS01	1,2-Dibromo-3-Chloropropane	20	17.6	ug/Kg	88			40 (66)	160 (134)	
	1,2,4-Trichlorobenzene	20	20.1	ug/Kg	101			70 (78)	130 (127)	
	1,2,3-Trichlorobenzene	20	19.6	ug/Kg	98			70 (70)	130 (137)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021829.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0410SBSD01	Dichlorodifluoromethane	20	18.2	ug/Kg	91	1		40 (64)	160 (136)	30 (20)
	Chloromethane	20	19.7	ug/Kg	99	1		40 (70)	160 (130)	30 (20)
	Vinyl chloride	20	18.6	ug/Kg	93	3		70 (72)	130 (129)	30 (20)
	Bromomethane	20	18.7	ug/Kg	94	1		40 (58)	160 (141)	30 (20)
	Chloroethane	20	19.1	ug/Kg	96	1		40 (69)	160 (130)	30 (20)
	Trichlorofluoromethane	20	19.3	ug/Kg	97	0		40 (69)	160 (134)	30 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/Kg	100	3		70 (81)	130 (123)	30 (20)
	1,1-Dichloroethene	20	18.8	ug/Kg	94	6		70 (79)	130 (121)	30 (20)
	Acetone	100	94.7	ug/Kg	95	3		40 (60)	160 (131)	30 (20)
	Carbon disulfide	20	18.3	ug/Kg	92	1		40 (45)	160 (154)	30 (20)
	Methyl tert-butyl Ether	20	18.7	ug/Kg	94	8		70 (77)	130 (129)	30 (20)
	Methyl Acetate	20	20.8	ug/Kg	104	14		70 (69)	130 (149)	30 (20)
	Methylene Chloride	20	20.0	ug/Kg	100	4		70 (56)	130 (174)	30 (20)
	trans-1,2-Dichloroethene	20	19.3	ug/Kg	97	1		70 (80)	130 (123)	30 (20)
	1,1-Dichloroethane	20	19.9	ug/Kg	100	2		70 (82)	130 (123)	30 (20)
	Cyclohexane	20	18.1	ug/Kg	91	1		70 (76)	130 (122)	30 (20)
	2-Butanone	100	92.4	ug/Kg	92	6		40 (69)	160 (131)	30 (20)
	Carbon Tetrachloride	20	20.1	ug/Kg	101	2		70 (76)	130 (129)	30 (20)
	cis-1,2-Dichloroethene	20	19.3	ug/Kg	97	2		70 (82)	130 (123)	30 (20)
	Bromochloromethane	20	19.3	ug/Kg	97	1		70 (80)	130 (127)	30 (20)
	Chloroform	20	20.1	ug/Kg	101	1		70 (82)	130 (125)	30 (20)
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99	2		70 (80)	130 (126)	30 (20)
	Methylcyclohexane	20	19.1	ug/Kg	96	2		70 (77)	130 (123)	30 (20)
	Benzene	20	20.3	ug/Kg	102	0		70 (84)	130 (121)	30 (20)
	1,2-Dichloroethane	20	20.0	ug/Kg	100	1		70 (81)	130 (126)	30 (20)
	Trichloroethene	20	20.5	ug/Kg	103	0		70 (83)	130 (122)	30 (20)
	1,2-Dichloropropane	20	20.3	ug/Kg	102	2		70 (83)	130 (122)	30 (20)
	Bromodichloromethane	20	20.6	ug/Kg	103	1		70 (82)	130 (123)	30 (20)
	4-Methyl-2-Pentanone	100	96.0	ug/Kg	96	11		40 (70)	160 (135)	30 (20)
	Toluene	20	20.7	ug/Kg	104	1		70 (83)	130 (122)	30 (20)
	t-1,3-Dichloropropene	20	19.3	ug/Kg	97	1		70 (78)	130 (124)	30 (20)
	cis-1,3-Dichloropropene	20	19.1	ug/Kg	96	2		70 (81)	130 (122)	30 (20)
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104	4		70 (82)	130 (125)	30 (20)
	2-Hexanone	100	94.7	ug/Kg	95	10		40 (66)	160 (138)	30 (20)
	Dibromochloromethane	20	20.8	ug/Kg	104	3		70 (79)	130 (125)	30 (20)
	1,2-Dibromoethane	20	19.9	ug/Kg	100	0		70 (80)	130 (125)	30 (20)
	Tetrachloroethene	20	20.6	ug/Kg	103	1		70 (83)	130 (125)	30 (20)
	Chlorobenzene	20	20.1	ug/Kg	101	2		70 (84)	130 (122)	30 (20)
	Ethyl Benzene	20	19.9	ug/Kg	100	3		70 (82)	130 (124)	30 (20)
	m/p-Xylenes	40	40.6	ug/Kg	102	3		70 (83)	130 (124)	30 (20)
	o-Xylene	20	20.2	ug/Kg	101	1		70 (83)	130 (123)	30 (20)
	Styrene	20	20.3	ug/Kg	102	1		70 (82)	130 (124)	30 (20)
	Bromoform	20	20.2	ug/Kg	101	3		70 (75)	130 (127)	30 (20)
	Isopropylbenzene	20	19.1	ug/Kg	96	3		70 (82)	130 (124)	30 (20)
	1,1,2,2-Tetrachloroethane	20	18.6	ug/Kg	93	2		70 (77)	130 (127)	30 (20)
	1,3-Dichlorobenzene	20	19.9	ug/Kg	100	3		70 (83)	130 (122)	30 (20)
	1,4-Dichlorobenzene	20	20.1	ug/Kg	101	2		70 (84)	130 (121)	30 (20)
	1,2-Dichlorobenzene	20	20.1	ug/Kg	101	1		70 (83)	130 (124)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VY021829.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VY0410SBSD01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/Kg	98	11		40 (66)	160 (134)	30 (20)
	1,2,4-Trichlorobenzene	20	20.7	ug/Kg	104	3		70 (78)	130 (127)	30 (20)
	1,2,3-Trichlorobenzene	20	21.0	ug/Kg	105	7		70 (70)	130 (137)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0410SBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VY021827.D Lab Sample ID: VY0410SBL01

Date Analyzed: 04/10/2025 Time Analyzed: 10:28

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
VY0410SBS01	VY0410SBS01	VY021828.D	04/10/2025
VY0410SBSD01	VY0410SBSD01	VY021829.D	04/10/2025
B-158-SB01	Q1744-01	VY021835.D	04/10/2025
B-158-SB02	Q1744-03	VY021836.D	04/10/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VY021655.D BFB Injection Date: 03/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:23

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.7 (2) 1
174	50.0 - 100.0% of mass 95	86.7
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.9 (95.6) 1
177	5.0 - 9.0% of mass 176	5.6 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY021656.D	03/27/2025	10:08
VSTDICC010	VSTDICC010	VY021657.D	03/27/2025	10:31
VSTDICC020	VSTDICC020	VY021658.D	03/27/2025	10:54
VSTDICCC050	VSTDICCC050	VY021659.D	03/27/2025	11:16
VSTDICC100	VSTDICC100	VY021660.D	03/27/2025	11:39
VSTDICC150	VSTDICC150	VY021661.D	03/27/2025	12:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VY021825.D BFB Injection Date: 04/10/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:34

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	54.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	1.4 (1.7) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6.7 (8.2) 1
176	95.0 - 101.0% of mass 174	78.2 (95.7) 1
177	5.0 - 9.0% of mass 176	5.1 (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	VY021826.D	04/10/2025	09:51
VY0410SBL01	VY0410SBL01	VY021827.D	04/10/2025	10:28
VY0410SBS01	VY0410SBS01	VY021828.D	04/10/2025	10:59
VY0410SBSD01	VY0410SBSD01	VY021829.D	04/10/2025	11:22
B-158-SB01	Q1744-01	VY021835.D	04/10/2025	14:03
B-158-SB02	Q1744-03	VY021836.D	04/10/2025	14:26

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VY021826.D Date Analyzed: 04/10/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:51

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	208417	7.71	315600	8.62	284701	11.42
UPPER LIMIT	416834	8.213	631200	9.122	569402	11.92
LOWER LIMIT	104209	7.213	157800	8.122	142351	10.92
EPA SAMPLE NO.						
B-158-SB01	219582	7.71	409739	8.62	351379	11.42
B-158-SB02	221830	7.71	407665	8.62	345604	11.42
VY0410SBL01	241941	7.71	436661	8.62	362482	11.42
VY0410SBS01	202932	7.71	310477	8.62	276303	11.42
VY0410SBSD01	207811	7.71	318832	8.62	284393	11.42

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VY021826.D Date Analyzed: 04/10/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:51

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

	IS4 AREA #	RT #				
12 HOUR STD	147243	13.353				
UPPER LIMIT	294486	13.853				
LOWER LIMIT	73621.5	12.853				
EPA SAMPLE NO.						
B-158-SB01	126397	13.35				
B-158-SB02	111730	13.35				
VY0410SBL01	131635	13.35				
VY0410SBS01	144045	13.35				
VY0410SBSD01	148690	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 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBL01	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
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	1.10	U	1.10	5.00	ug/Kg
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	1.20	U	1.20	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	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	1.50	U	1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
110-82-7	Cyclohexane	0.79	U	0.79	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	1.20	U	1.20	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	0.91	U	0.91	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBL01	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
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	0.88	U	0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.70	U	1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.60	U	1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.00	U	3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.20	U	3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		70 (63) - 130 (155)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (70) - 130 (134)	100%	SPK: 50
2037-26-5	Toluene-d8	48.5		70 (74) - 130 (123)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.3		70 (38) - 130 (136)	77%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	242000	7.713			
540-36-3	1,4-Difluorobenzene	437000	8.616			
3114-55-4	Chlorobenzene-d5	362000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.352			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBL01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBL01	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
VY021827.D	1		04/10/25 10:28	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBS01	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
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.4		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.9		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.2		0.79	5.00	ug/Kg
74-83-9	Bromomethane	19.0		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.3		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.4		1.20	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	20.0		1.00	5.00	ug/Kg
67-64-1	Acetone	92.0		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.4		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	18.0		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.4		0.79	5.00	ug/Kg
78-93-3	2-Butanone	87.3		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.7		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.5		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.0		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.6		0.91	5.00	ug/Kg
71-43-2	Benzene	20.4		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.1		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	85.8		3.60	25.0	ug/Kg
108-88-3	Toluene	21.0		0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBS01	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
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.2		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.5		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.0		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	86.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.1		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	20.0		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.9		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.6		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.1		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.4		0.82	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.5		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.7		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.3		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.1		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.6		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (63) - 130 (155)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		70 (70) - 130 (134)	107%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (74) - 130 (123)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (38) - 130 (136)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	7.713			
540-36-3	1,4-Difluorobenzene	310000	8.616			
3114-55-4	Chlorobenzene-d5	276000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.353			

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBS01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBS01	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
VY021828.D	1		04/10/25 10:59	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBSD01	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
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.2		1.10	5.00	ug/Kg
74-87-3	Chloromethane	19.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.6		0.79	5.00	ug/Kg
74-83-9	Bromomethane	18.7		1.10	5.00	ug/Kg
75-00-3	Chloroethane	19.1		1.30	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		1.20	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		1.10	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	18.8		1.00	5.00	ug/Kg
67-64-1	Acetone	94.7		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	18.7		0.73	5.00	ug/Kg
79-20-9	Methyl Acetate	20.8		1.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.0		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.3		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.9		0.80	5.00	ug/Kg
110-82-7	Cyclohexane	18.1		0.79	5.00	ug/Kg
78-93-3	2-Butanone	92.4		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.3		0.75	5.00	ug/Kg
74-97-5	Bromochloromethane	19.3		1.20	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.93	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.1		0.91	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.0		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.5		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.3		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.6		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.0		3.60	25.0	ug/Kg
108-88-3	Toluene	20.7		0.78	5.00	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBSD01	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
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.3		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	94.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.8		0.87	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.9		0.88	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.6		1.10	5.00	ug/Kg
108-90-7	Chlorobenzene	20.1		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.9		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	20.3		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.86	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.78	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.6		1.20	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.9		1.70	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.1		1.60	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.1		1.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1.80	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.7		3.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.0		3.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		70 (63) - 130 (155)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (70) - 130 (134)	102%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (74) - 130 (123)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		70 (38) - 130 (136)	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.707			
540-36-3	1,4-Difluorobenzene	319000	8.615			
3114-55-4	Chlorobenzene-d5	284000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	149000	13.346			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VY0410SBSD01	SDG No.:	Q1744
Lab Sample ID:	VY0410SBSD01	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
VY021829.D	1		04/10/25 11:22	VY041025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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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,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

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

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.602	0.577	0.493	0.506	0.485	0.447	0.518	11.4
Chloromethane	0.876	0.775	0.713	0.692	0.672	0.644	0.729	11.6
Vinyl Chloride	0.977	0.886	0.810	0.800	0.758	0.714	0.824	11.5
Bromomethane	0.709	0.613	0.537	0.513	0.494	0.506	0.562	14.9
Chloroethane	0.644	0.570	0.544	0.512	0.490	0.476	0.539	11.5
Trichlorofluoromethane	1.212	1.124	1.104	1.013	0.967	0.914	1.056	10.5
1,1,2-Trichlorotrifluoroethane	0.668	0.601	0.553	0.536	0.510	0.473	0.557	12.4
1,1-Dichloroethene	0.589	0.564	0.508	0.514	0.496	0.477	0.524	8.2
Acetone	0.145	0.123	0.102	0.107	0.087	0.102	0.111	18.3
Carbon Disulfide	1.956	1.828	1.709	1.696	1.623	1.552	1.727	8.4
Methyl tert-butyl Ether	1.380	1.335	1.247	1.325	1.256	1.292	1.306	3.9
Methyl Acetate	0.329	0.286	0.269	0.265	0.243	0.257	0.275	11
Methylene Chloride	0.870	0.694	0.594	0.564	0.518	0.514	0.626	21.8
trans-1,2-Dichloroethene	0.634	0.608	0.568	0.567	0.551	0.536	0.577	6.3
1,1-Dichloroethane	1.178	1.091	1.024	1.040	0.992	0.968	1.049	7.3
Cyclohexane	1.170	1.032	0.912	0.918	0.886	0.818	0.956	13.1
2-Butanone	0.181	0.166	0.149	0.159	0.140	0.155	0.158	8.9
Carbon Tetrachloride	0.637	0.594	0.546	0.564	0.547	0.507	0.566	7.9
cis-1,2-Dichloroethene	0.700	0.658	0.626	0.652	0.631	0.629	0.649	4.3
Bromochloromethane	0.513	0.470	0.424	0.426	0.420	0.402	0.442	9.3
Chloroform	1.235	1.141	1.062	1.081	1.026	1.000	1.091	7.9
1,1,1-Trichloroethane	1.155	1.013	0.959	0.967	0.929	0.893	0.986	9.3
Methylcyclohexane	0.593	0.599	0.569	0.619	0.612	0.550	0.590	4.5
Benzene	1.606	1.527	1.429	1.499	1.445	1.371	1.479	5.6
1,2-Dichloroethane	0.467	0.445	0.399	0.420	0.392	0.379	0.417	8.1
Trichloroethene	0.412	0.398	0.362	0.374	0.366	0.348	0.377	6.4
1,2-Dichloropropane	0.383	0.366	0.334	0.353	0.340	0.325	0.350	6.2
Bromodichloromethane	0.571	0.546	0.504	0.525	0.508	0.484	0.523	6
4-Methyl-2-Pentanone	0.232	0.240	0.219	0.241	0.222	0.226	0.230	3.9
Toluene	0.940	0.943	0.893	0.951	0.928	0.885	0.923	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.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02

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

LAB FILE ID: RRF005 = VY021656.D RRF010 = VY021657.D RRF020 = VY021658.D
RRF050 = VY021659.D RRF100 = VY021660.D RRF150 = VY021661.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.456	0.470	0.439	0.486	0.475	0.461	0.465	3.5
cis-1,3-Dichloropropene	0.553	0.558	0.528	0.565	0.549	0.534	0.548	2.6
1,1,2-Trichloroethane	0.280	0.283	0.249	0.261	0.247	0.240	0.260	6.9
2-Hexanone	0.154	0.154	0.144	0.164	0.148	0.154	0.153	4.2
Dibromochloromethane	0.371	0.367	0.340	0.364	0.348	0.337	0.355	4.1
1,2-Dibromoethane	0.267	0.250	0.230	0.254	0.233	0.229	0.244	6.3
Tetrachloroethene	0.534	0.503	0.453	0.449	0.412	0.382	0.455	12.3
Chlorobenzene	1.244	1.178	1.110	1.155	1.116	1.073	1.146	5.3
Ethyl Benzene	1.949	1.916	1.918	2.051	2.023	1.935	1.965	2.9
m/p-Xylenes	0.726	0.753	0.744	0.787	0.774	0.731	0.753	3.2
o-Xylene	0.665	0.670	0.676	0.738	0.725	0.694	0.695	4.4
Styrene	1.064	1.110	1.134	1.232	1.229	1.181	1.158	5.8
Bromoform	0.241	0.239	0.229	0.237	0.225	0.221	0.232	3.4
Isopropylbenzene	3.628	3.701	3.582	3.826	3.843	3.702	3.714	2.8
1,1,2,2-Tetrachloroethane	0.764	0.720	0.616	0.657	0.619	0.631	0.668	9.1
1,3-Dichlorobenzene	1.895	1.774	1.707	1.748	1.728	1.689	1.757	4.2
1,4-Dichlorobenzene	1.876	1.794	1.704	1.741	1.673	1.626	1.736	5.2
1,2-Dichlorobenzene	1.598	1.607	1.496	1.524	1.486	1.465	1.529	3.9
1,2-Dibromo-3-Chloropropane	0.112	0.111	0.097	0.102	0.096	0.102	0.103	6.6
1,2,4-Trichlorobenzene	0.771	0.781	0.787	0.878	0.870	0.889	0.829	6.6
1,2,3-Trichlorobenzene	0.653	0.681	0.673	0.746	0.737	0.753	0.707	6.1
1,2-Dichloroethane-d4	0.612	0.559	0.502	0.548	0.510	0.520	0.542	7.5
Dibromofluoromethane	0.357	0.321	0.290	0.339	0.325	0.313	0.324	7
Toluene-d8	1.277	1.240	1.127	1.306	1.252	1.201	1.234	5.1
4-Bromofluorobenzene	0.447	0.410	0.378	0.439	0.424	0.407	0.417	6

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_Y Calibration Date/Time: 04/10/2025 09:51

Lab File ID: VY021826.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.518	0.473		-8.69	20
Chloromethane	0.729	0.722	0.1	-0.96	20
Vinyl Chloride	0.824	0.777		-5.7	20
Bromomethane	0.562	0.510		-9.25	20
Chloroethane	0.539	0.515		-4.45	20
Trichlorofluoromethane	1.056	0.995		-5.78	20
1,1,2-Trichlorotrifluoroethane	0.557	0.548		-1.62	20
1,1-Dichloroethene	0.524	0.521		-0.57	20
Acetone	0.111	0.105		-5.41	20
Carbon Disulfide	1.727	1.642		-4.92	20
Methyl tert-butyl Ether	1.306	1.226		-6.13	20
Methyl Acetate	0.275	0.298		8.36	20
Methylene Chloride	0.626	0.577		-7.83	20
trans-1,2-Dichloroethene	0.577	0.585		1.39	20
1,1-Dichloroethane	1.049	1.074	0.1	2.38	20
Cyclohexane	0.956	0.885		-7.43	20
2-Butanone	0.158	0.140		-11.39	20
Carbon Tetrachloride	0.566	0.596		5.3	20
cis-1,2-Dichloroethene	0.649	0.671		3.39	20
Bromochloromethane	0.442	0.448		1.36	20
Chloroform	1.091	1.115		2.2	20
1,1,1-Trichloroethane	0.986	1.001		1.52	20
Methylcyclohexane	0.590	0.615		4.24	20
Benzene	1.479	1.589		7.44	20
1,2-Dichloroethane	0.417	0.422		1.2	20
Trichloroethene	0.377	0.407		7.96	20
1,2-Dichloropropane	0.350	0.377		7.71	20
Bromodichloromethane	0.523	0.551		5.35	20
4-Methyl-2-Pentanone	0.230	0.211		-8.26	20
Toluene	0.923	1.022		10.73	20
t-1,3-Dichloropropene	0.465	0.471		1.29	20
cis-1,3-Dichloropropene	0.548	0.564		2.92	20
1,1,2-Trichloroethane	0.260	0.265		1.92	20
2-Hexanone	0.153	0.145		-5.23	20
Dibromochloromethane	0.355	0.370		4.22	20
1,2-Dibromoethane	0.244	0.244		0	20
Tetrachloroethene	0.455	0.482		5.93	20
Chlorobenzene	1.146	1.216	0.3	6.11	20

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_Y Calibration Date/Time: 04/10/2025 09:51

Lab File ID: VY021826.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:08 12:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.965	2.166		10.23	20
m/p-Xylenes	0.753	0.846		12.35	20
o-Xylene	0.695	0.776		11.65	20
Styrene	1.158	1.305		12.69	20
Bromoform	0.232	0.227	0.1	-2.15	20
Isopropylbenzene	3.714	3.986		7.32	20
1,1,2,2-Tetrachloroethane	0.668	0.605	0.3	-9.43	20
1,3-Dichlorobenzene	1.757	1.868		6.32	20
1,4-Dichlorobenzene	1.736	1.812		4.38	20
1,2-Dichlorobenzene	1.529	1.605		4.97	20
1,2-Dibromo-3-Chloropropane	0.103	0.091		-11.65	20
1,2,4-Trichlorobenzene	0.829	0.913		10.13	20
1,2,3-Trichlorobenzene	0.707	0.777		9.9	20
1,2-Dichloroethane-d4	0.542	0.533		-1.66	20
Dibromofluoromethane	0.324	0.356		9.88	20
Toluene-d8	1.234	1.384		12.16	20
4-Bromofluorobenzene	0.417	0.462		10.79	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\VY041025\
Data File : VY021835.D
Acq On : 10 Apr 2025 14:03
Operator : SY/MD
Sample : Q1744-01
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Quant Time: Apr 11 01:50:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

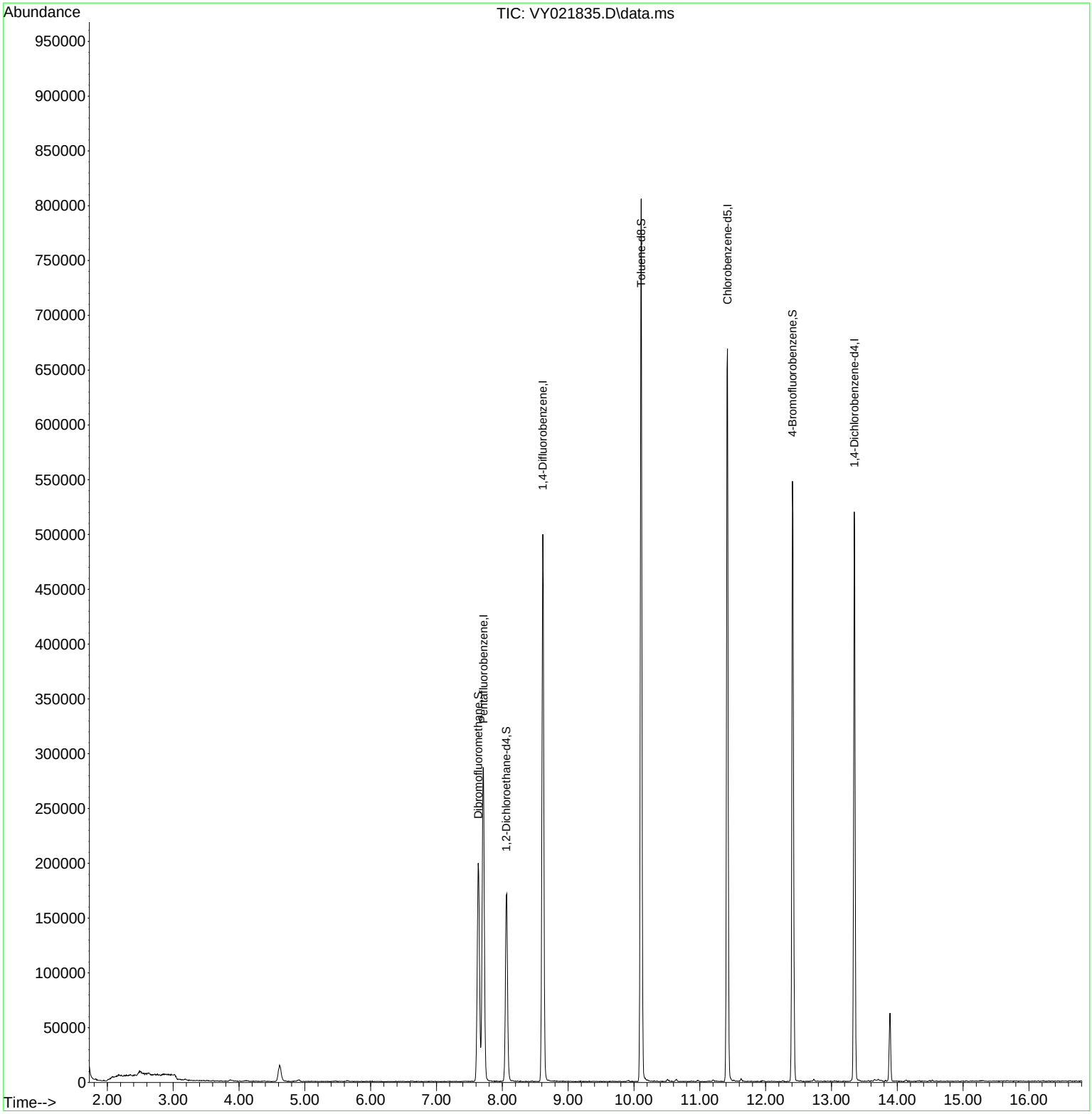
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	219582	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	409739	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	351379	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	126397	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	136380	57.324	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.640%			
35) Dibromofluoromethane	7.634	113	139811	52.602	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.200%			
50) Toluene-d8	10.109	98	496263	49.079	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.160%			
62) 4-Bromofluorobenzene	12.408	95	138498	40.494	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.980%			
Target Compounds						Qvalue

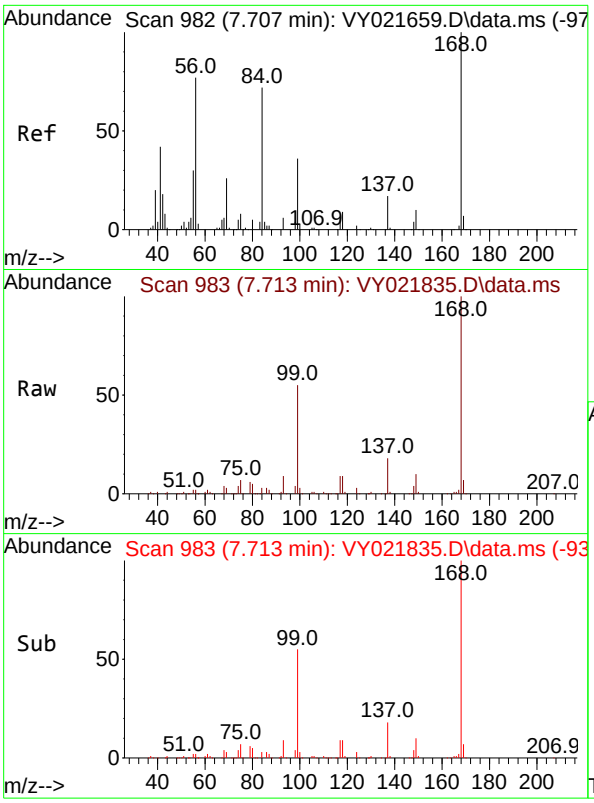
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021835.D
Acq On : 10 Apr 2025 14:03
Operator : SY/MD
Sample : Q1744-01
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Quant Time: Apr 11 01:50:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



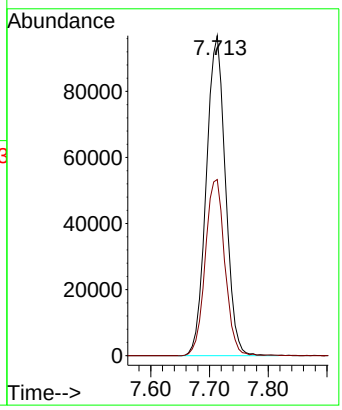


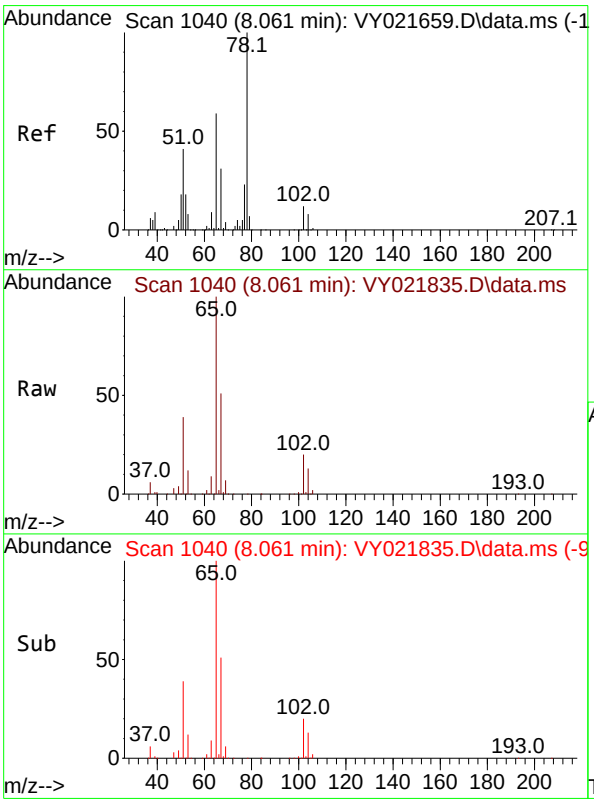
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Tgt Ion:168 Resp: 219582

Ion	Ratio	Lower	Upper
168	100		
99	55.0	46.7	70.1

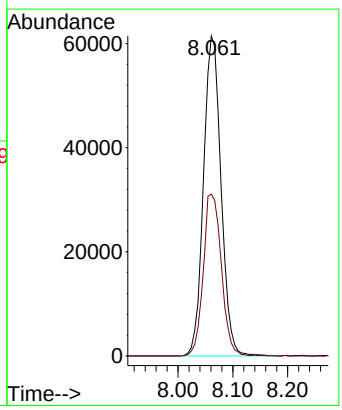


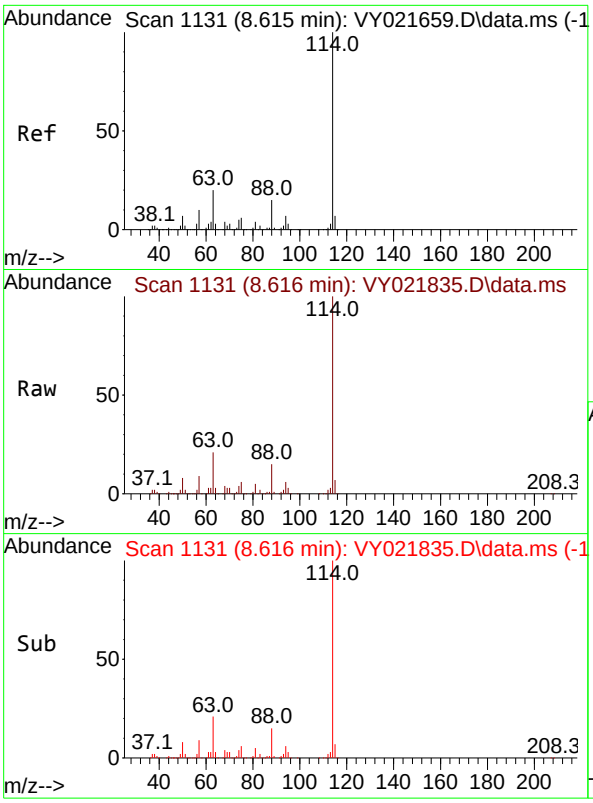


#33
1,2-Dichloroethane-d4
Concen: 57.324 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Tgt Ion: 65 Resp: 136380

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	104.6



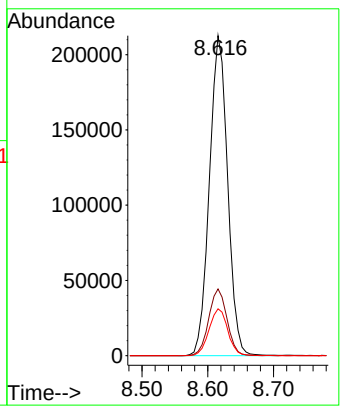


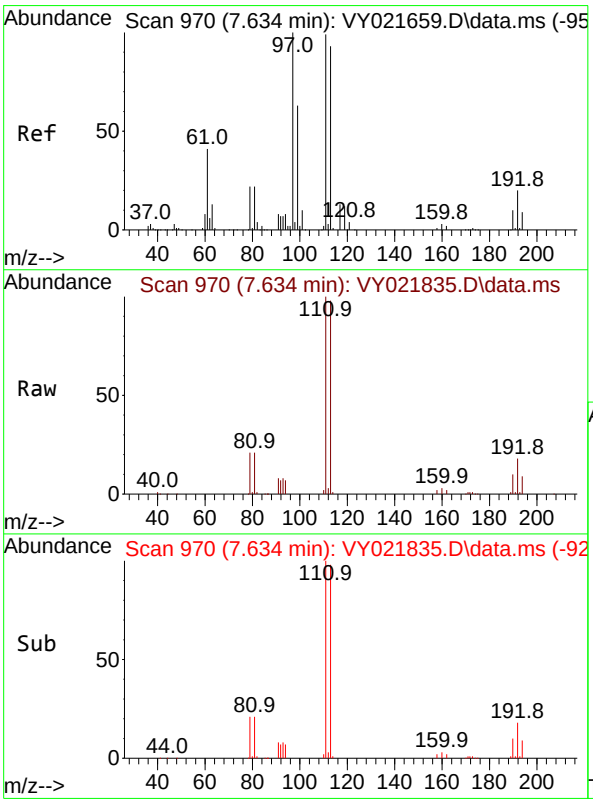
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Tgt Ion:114 Resp: 409739

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.2
88	14.6	0.0	29.8

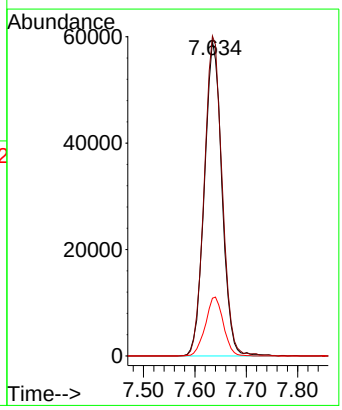


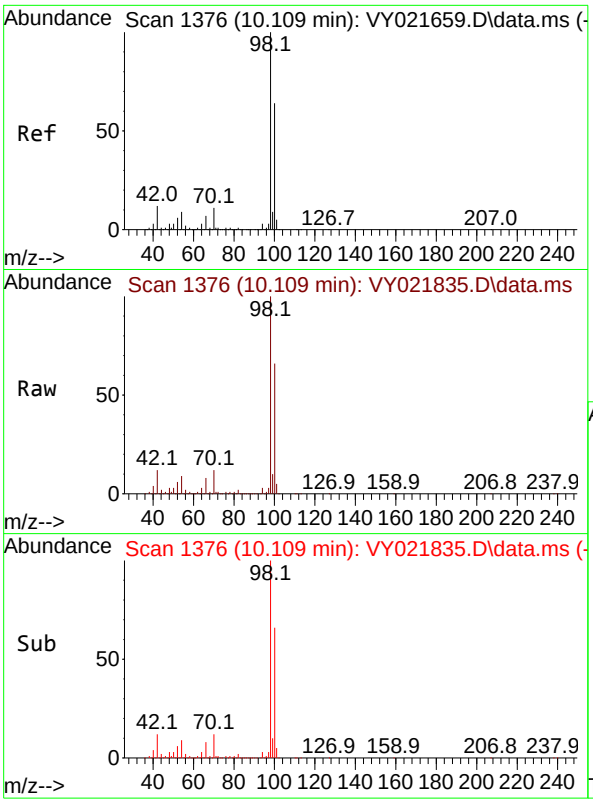


#35
Dibromofluoromethane
Concen: 52.602 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Tgt Ion:113 Resp: 139811

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.6	123.8
192	19.2	16.2	24.4



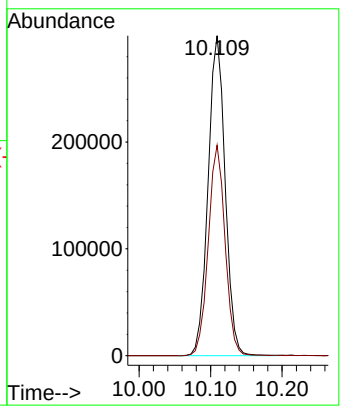


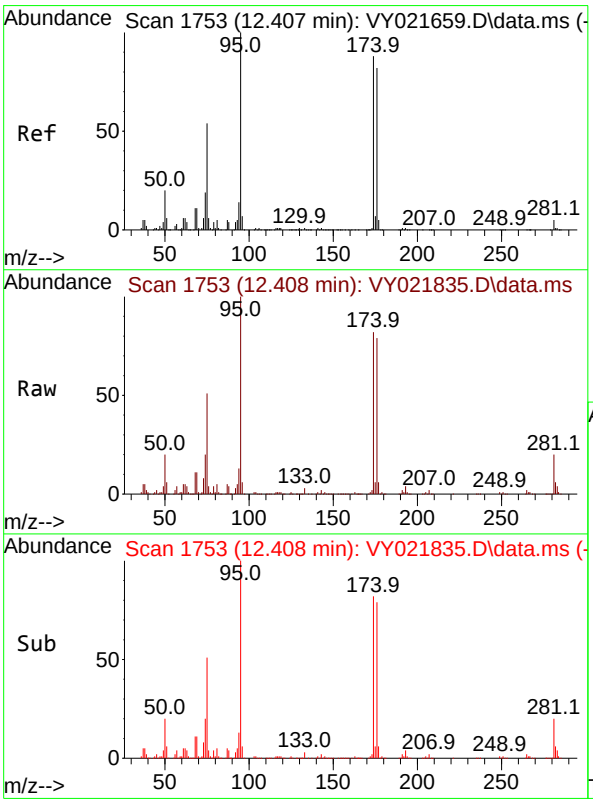
#50
Toluene-d8
Concen: 49.079 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Tgt Ion: 98 Resp: 496263

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.1	78.1

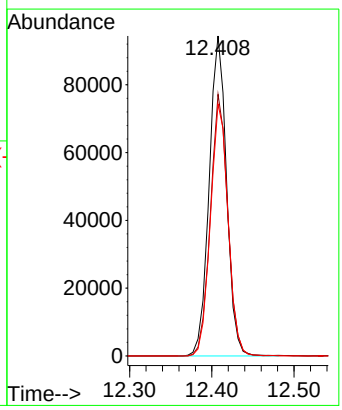


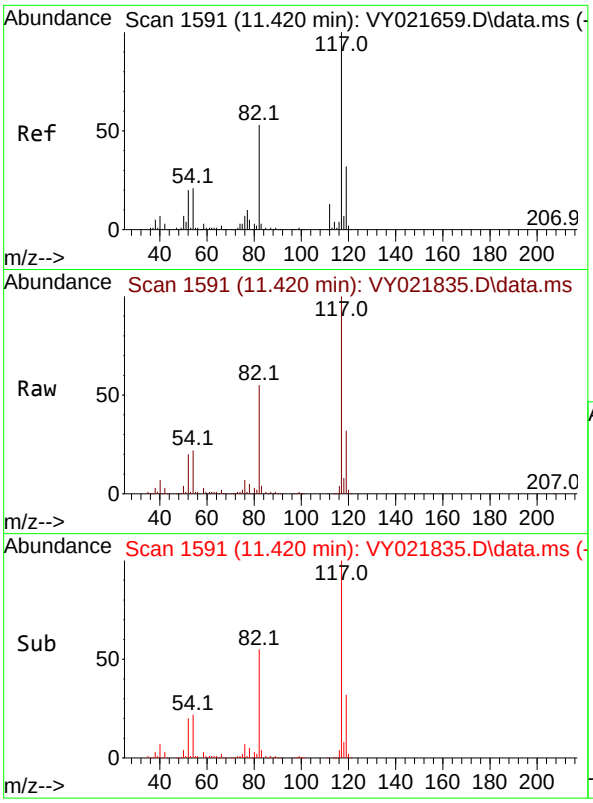


#62
4-Bromofluorobenzene
Concen: 40.494 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Tgt Ion: 95 Resp: 138498

Ion	Ratio	Lower	Upper
95	100		
174	81.8	0.0	170.8
176	80.0	0.0	162.0



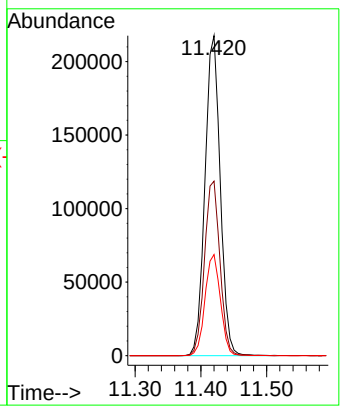


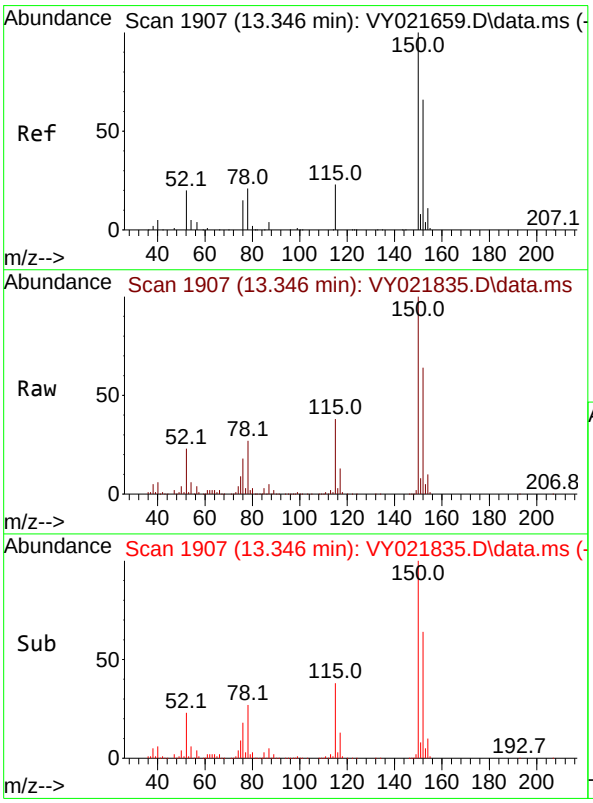
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Tgt Ion:117 Resp: 351379

Ion	Ratio	Lower	Upper
117	100		
82	54.6	42.8	64.2
119	31.6	25.7	38.5

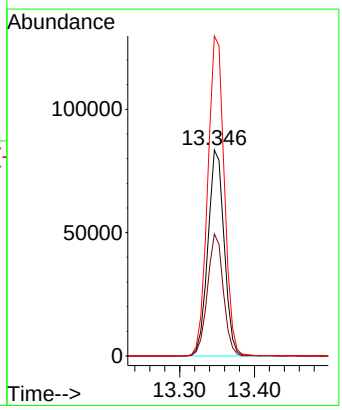




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021835.D
Acq: 10 Apr 2025 14:03

Tgt Ion:152 Resp: 126397

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.8	86.5
150	157.9	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021835.D
Acq On : 10 Apr 2025 14:03
Operator : SY/MD
Sample : Q1744-01
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021835.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	487	rBV	14867	47330	3.53%	0.692%
2	7.634	959	970	976	rBV	199139	474119	35.37%	6.932%
3	7.707	976	982	997	rVB	286217	670845	50.05%	9.809%
4	8.067	1031	1041	1052	rBV	170915	385357	28.75%	5.635%
5	8.616	1123	1131	1143	rBV	499187	973174	72.61%	14.230%
6	10.109	1367	1376	1389	rBV	805486	1340293	100.00%	19.597%
7	11.420	1582	1591	1603	rBV	668603	1103309	82.32%	16.132%
8	12.408	1746	1753	1763	rBV2	547480	956899	71.39%	13.992%
9	13.346	1896	1907	1916	rBV	519541	788395	58.82%	11.528%
10	13.889	1988	1996	2003	rVB2	62237	99390	7.42%	1.453%

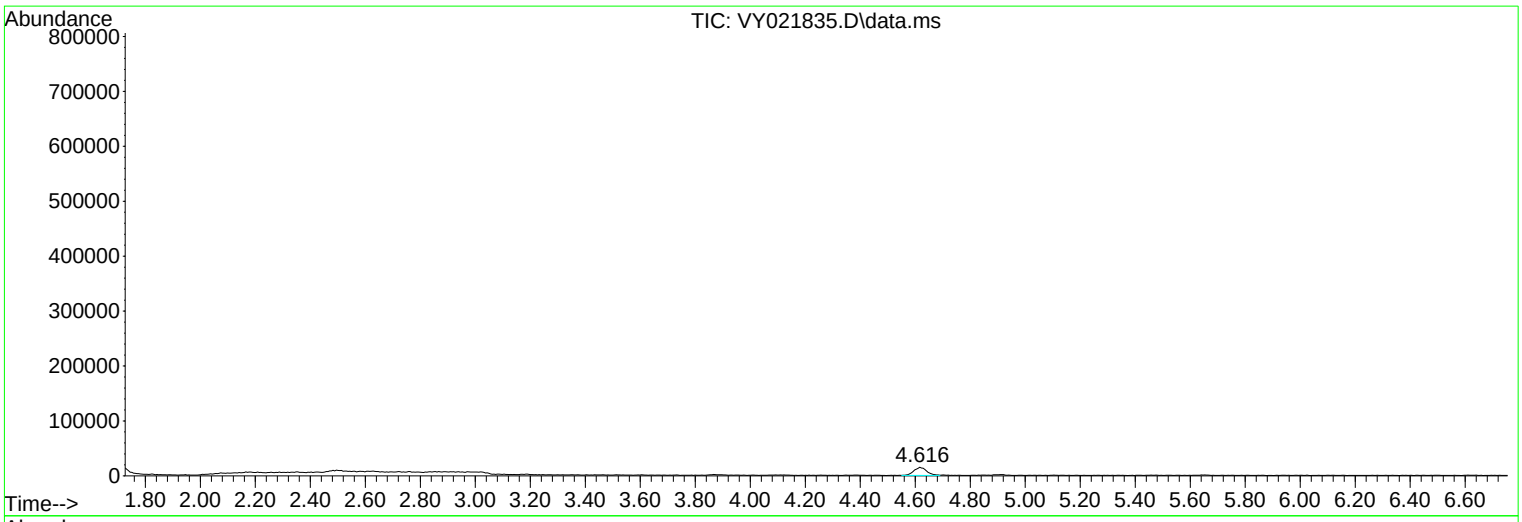
Sum of corrected areas: 6839111

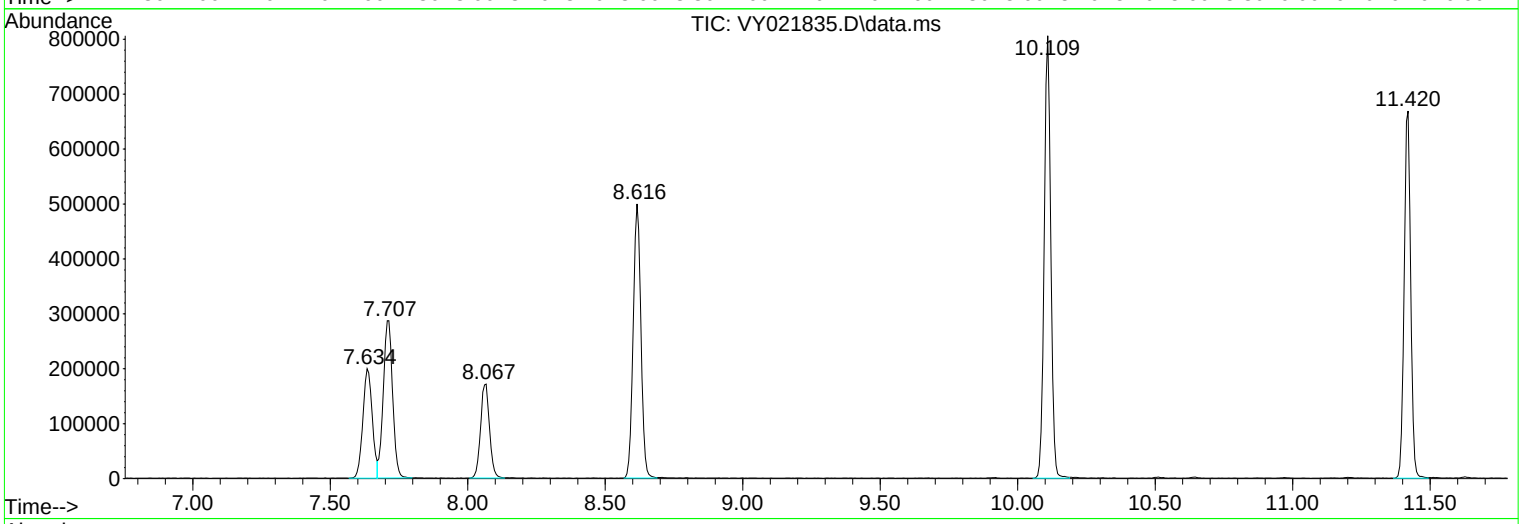
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021835.D
Acq On : 10 Apr 2025 14:03
Operator : SY/MD
Sample : Q1744-01
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

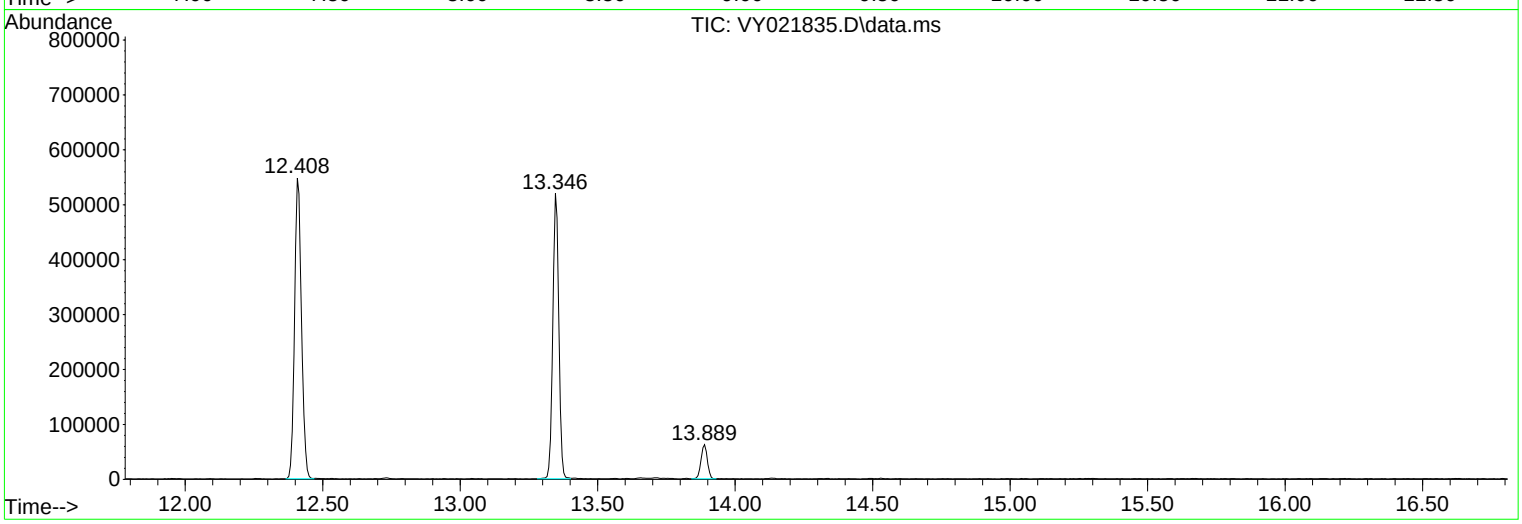
Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021835.D
Acq On : 10 Apr 2025 14:03
Operator : SY/MD
Sample : Q1744-01
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY041025\
Data File : VY021835.D
Acq On : 10 Apr 2025 14:03
Operator : SY/MD
Sample : Q1744-01
Misc : 7.42g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY041025\
Data File : VY021836.D
Acq On : 10 Apr 2025 14:26
Operator : SY/MD
Sample : Q1744-03
Misc : 5.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Quant Time: Apr 11 01:50:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

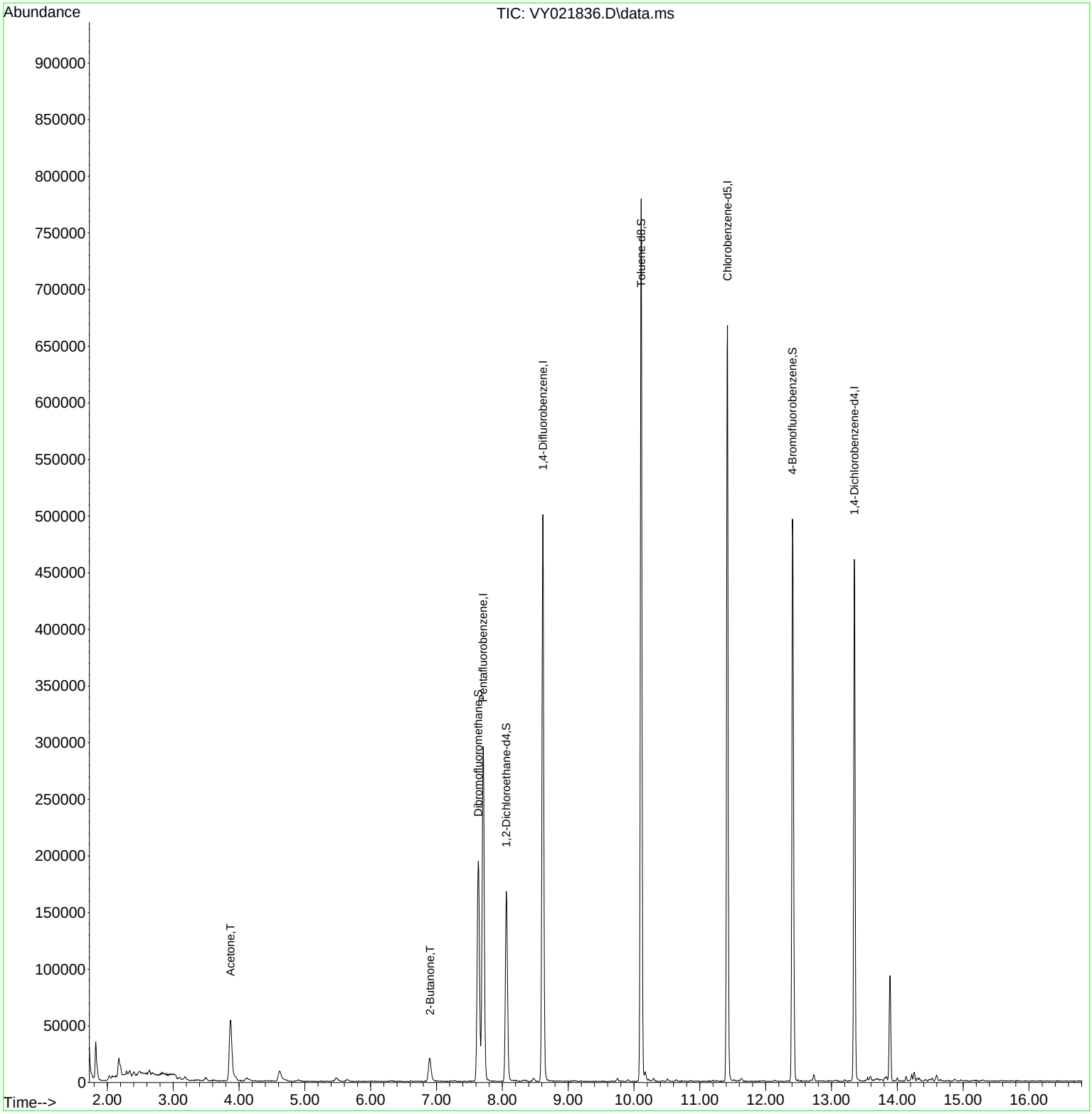
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	221830	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	407665	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	345604	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	111730	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	134386	55.913	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.820%			
35) Dibromofluoromethane	7.634	113	139096	52.599	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.200%			
50) Toluene-d8	10.109	98	494435	49.147	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.300%			
62) 4-Bromofluorobenzene	12.408	95	127916	37.591	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.180%			
Target Compounds						Qvalue
16) Acetone	3.873	43	100429	204.168	ug/l	98
25) 2-Butanone	6.902	43	35647	50.737	ug/l	94

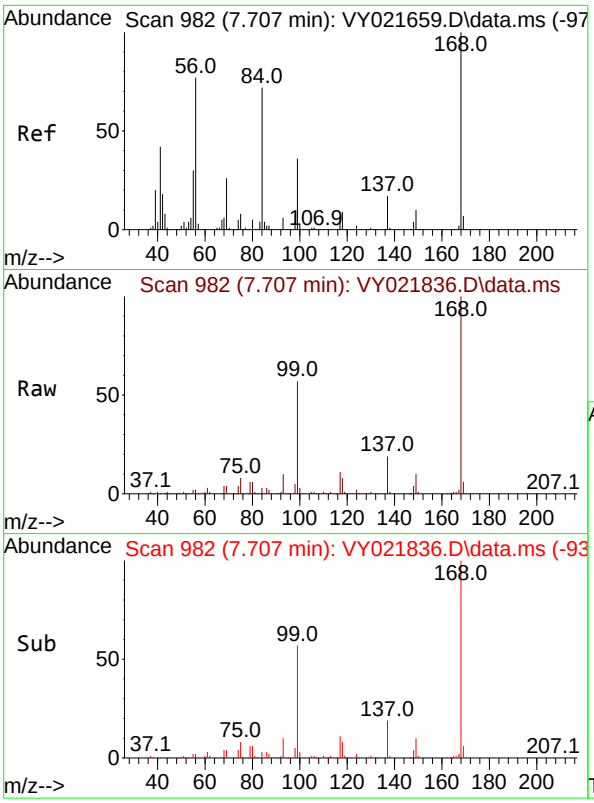
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021836.D
Acq On : 10 Apr 2025 14:26
Operator : SY/MD
Sample : Q1744-03
Misc : 5.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Quant Time: Apr 11 01:50:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



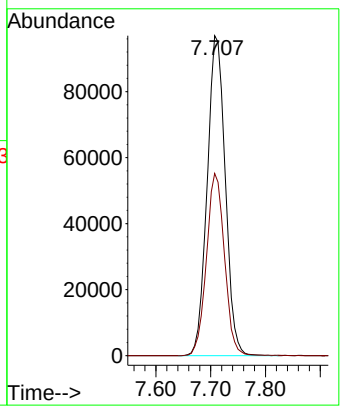


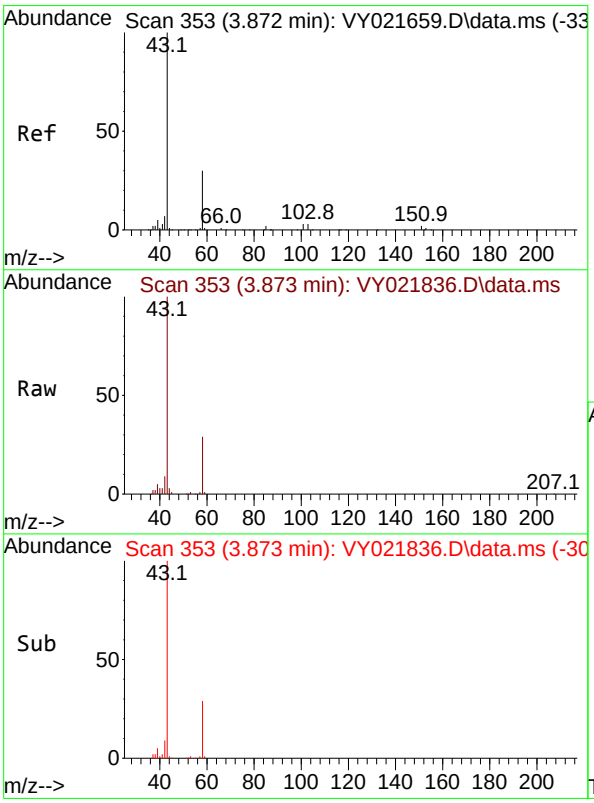
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Tgt Ion:168 Resp: 221830

Ion	Ratio	Lower	Upper
168	100		
99	56.9	46.7	70.1

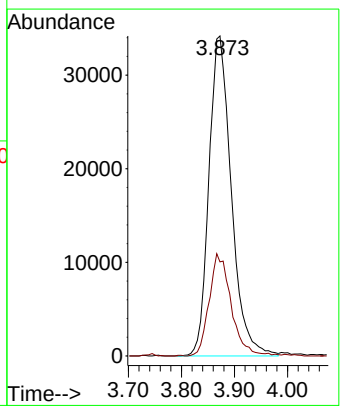




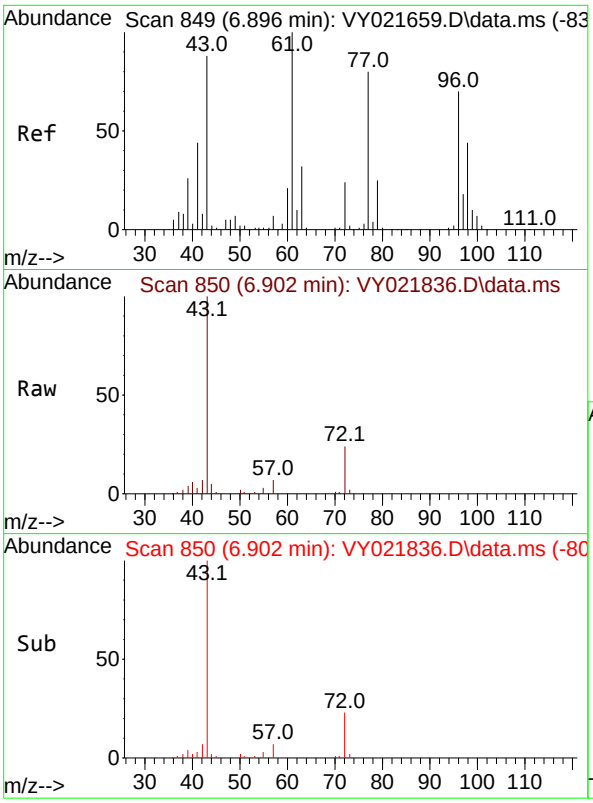
#16
Acetone
Concen: 204.168 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Tgt Ion: 43 Resp: 100429

Ion	Ratio	Lower	Upper
43	100		
58	29.2	24.2	36.4



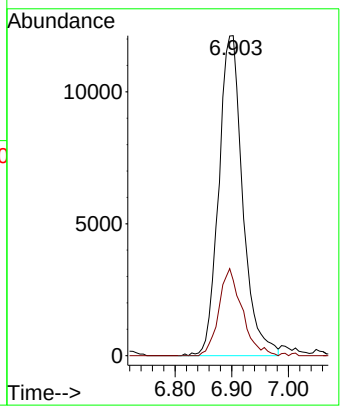
Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

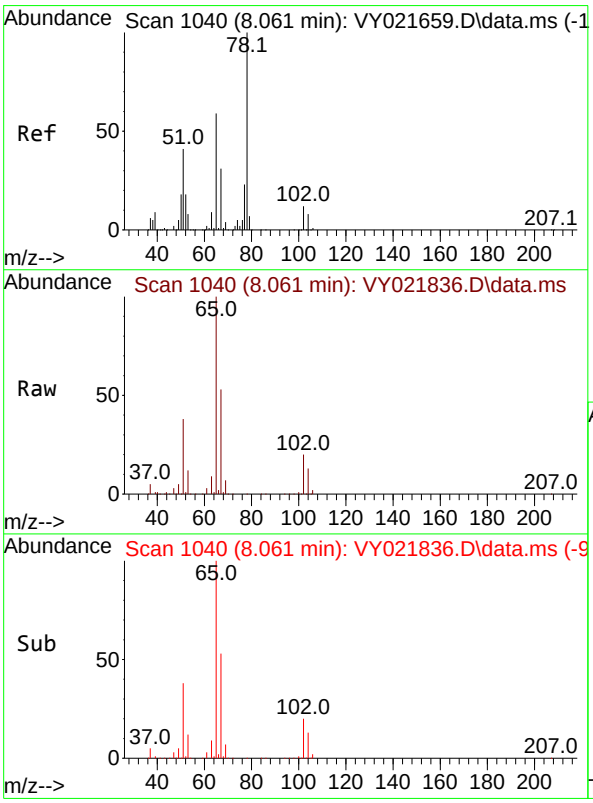


#25
2-Butanone
Concen: 50.737 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Tgt Ion: 43 Resp: 35647

Ion	Ratio	Lower	Upper
43	100		
72	23.5	21.4	32.2

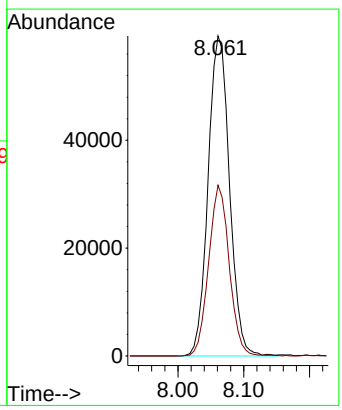


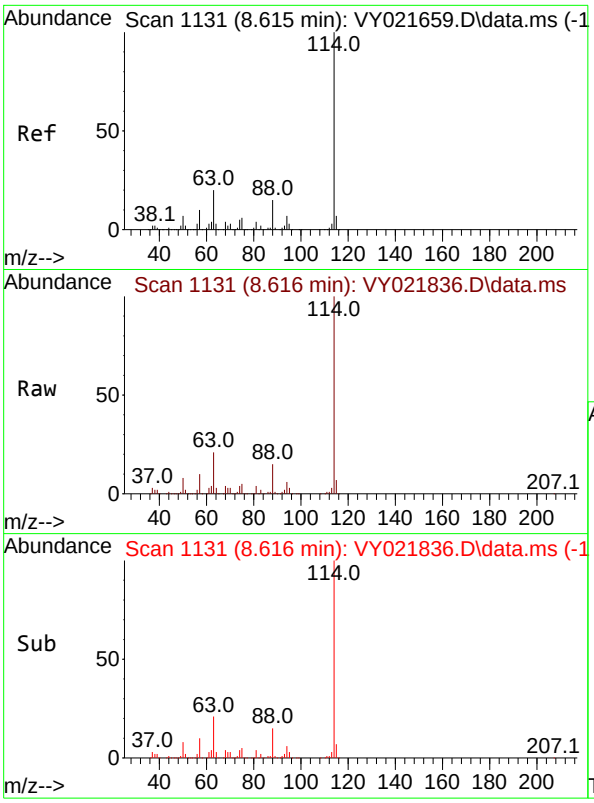


#33
1,2-Dichloroethane-d4
Concen: 55.913 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Tgt Ion: 65 Resp: 134386

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.6



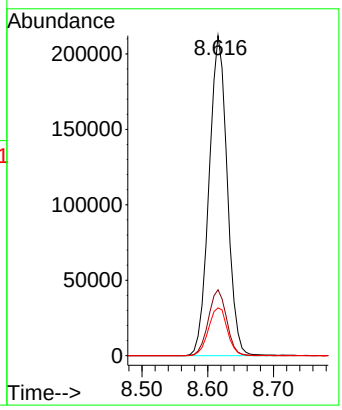


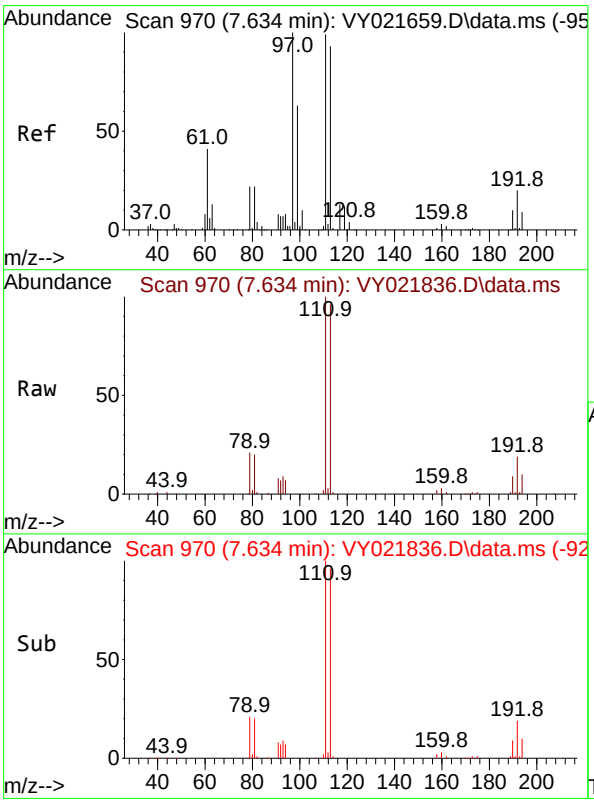
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Tgt Ion:114 Resp: 407665

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.2
88	15.0	0.0	29.8

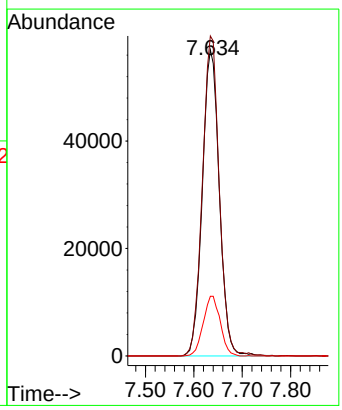


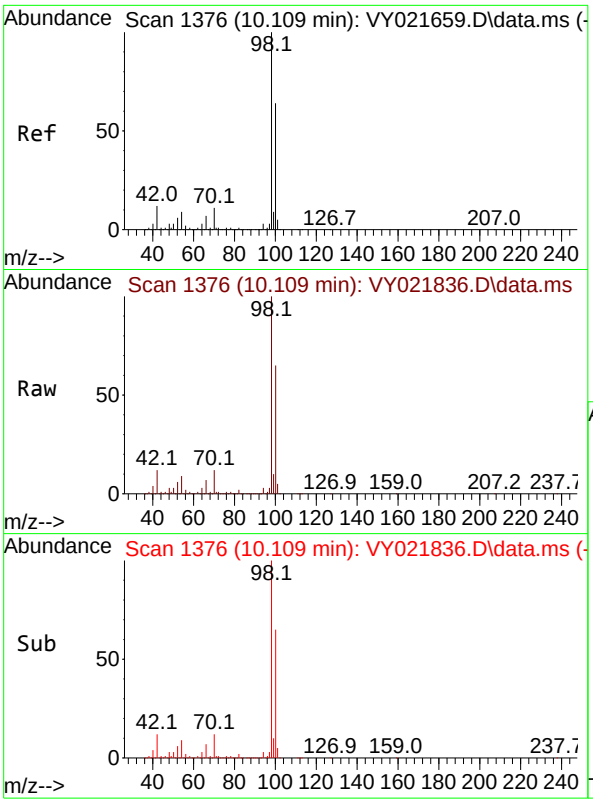


#35
Dibromofluoromethane
Concen: 52.599 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Tgt Ion:113 Resp: 139096

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	19.5	16.2	24.4



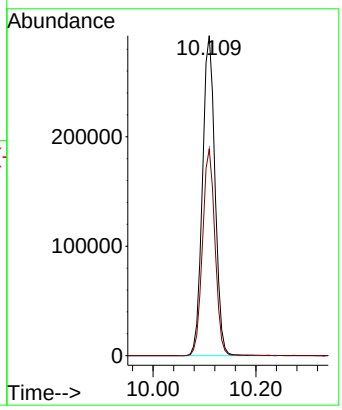


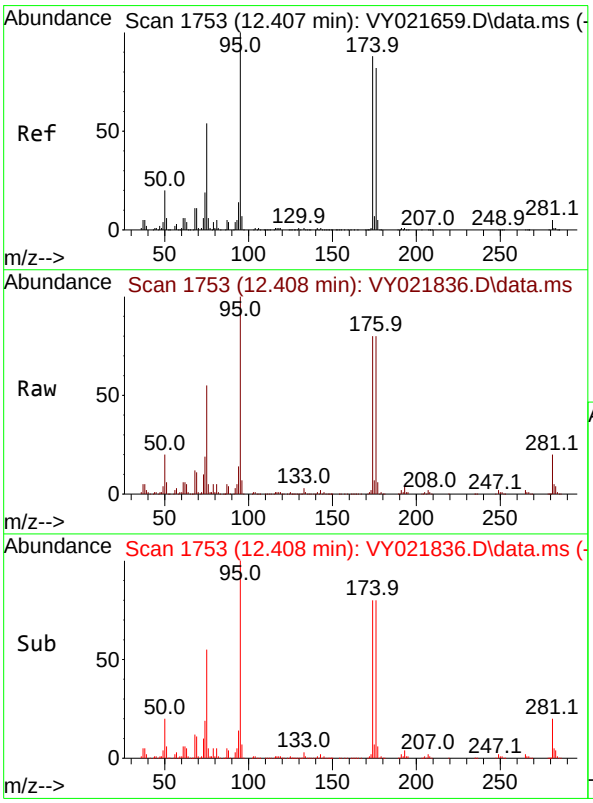
#50
Toluene-d8
Concen: 49.147 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Tgt Ion: 98 Resp: 494435

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.1	78.1

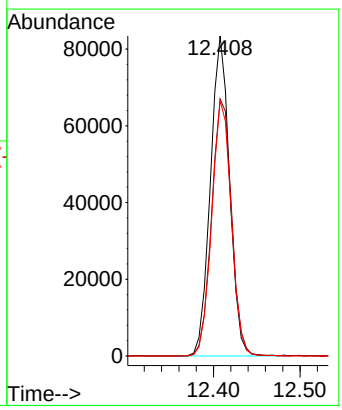


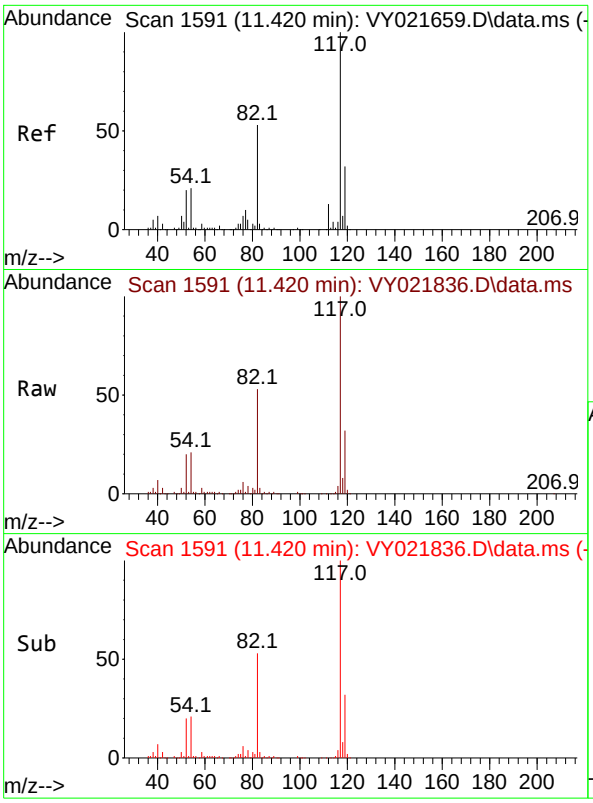


#62
4-Bromofluorobenzene
Concen: 37.591 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Tgt Ion: 95 Resp: 127916

Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	170.8
176	81.3	0.0	162.0



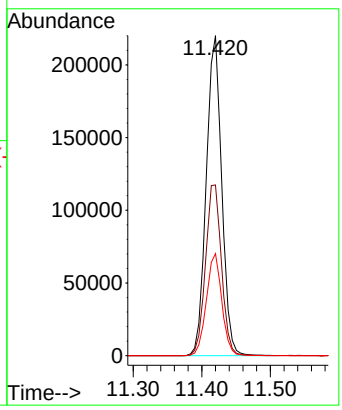


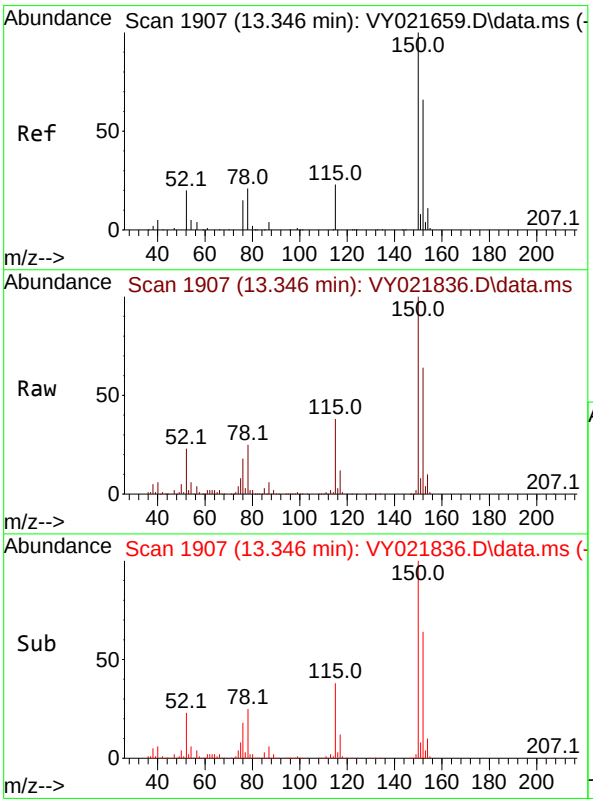
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Tgt Ion:117 Resp: 345604

Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.8	64.2
119	31.9	25.7	38.5

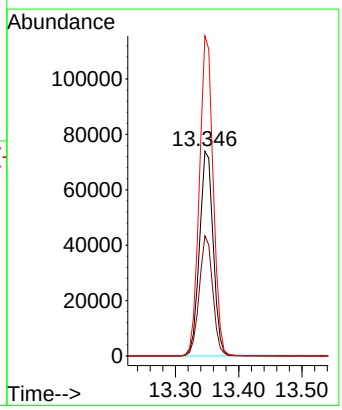




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021836.D
Acq: 10 Apr 2025 14:26

Tgt Ion:152 Resp: 111730

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.8	86.5
150	157.0	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021836.D
Acq On : 10 Apr 2025 14:26
Operator : SY/MD
Sample : Q1744-03
Misc : 5.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021836.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	13	17	26	rVB3	33482	57512	4.34%	0.821%
2	2.178	69	75	83	rBV2	15960	39462	2.98%	0.564%
3	3.873	343	353	372	rBV	53480	163353	12.32%	2.333%
4	4.610	463	474	487	rBV3	8847	33415	2.52%	0.477%
5	6.896	839	849	863	rBV2	20550	60980	4.60%	0.871%
6	7.634	960	970	976	rBV	194623	474419	35.79%	6.776%
7	7.707	976	982	994	rVB	294680	673319	50.80%	9.617%
8	8.061	1032	1040	1052	rBV	167838	378106	28.53%	5.401%
9	8.616	1121	1131	1143	rBV	500531	972899	73.40%	13.896%
10	10.109	1368	1376	1384	rBV	779061	1325502	100.00%	18.933%
11	11.420	1583	1591	1604	rBV	667297	1073999	81.03%	15.340%
12	12.408	1746	1753	1764	rBV2	496384	901989	68.05%	12.883%
13	13.346	1897	1907	1920	rBV	460554	693502	52.32%	9.906%
14	13.889	1990	1996	2002	rVB2	92886	152671	11.52%	2.181%

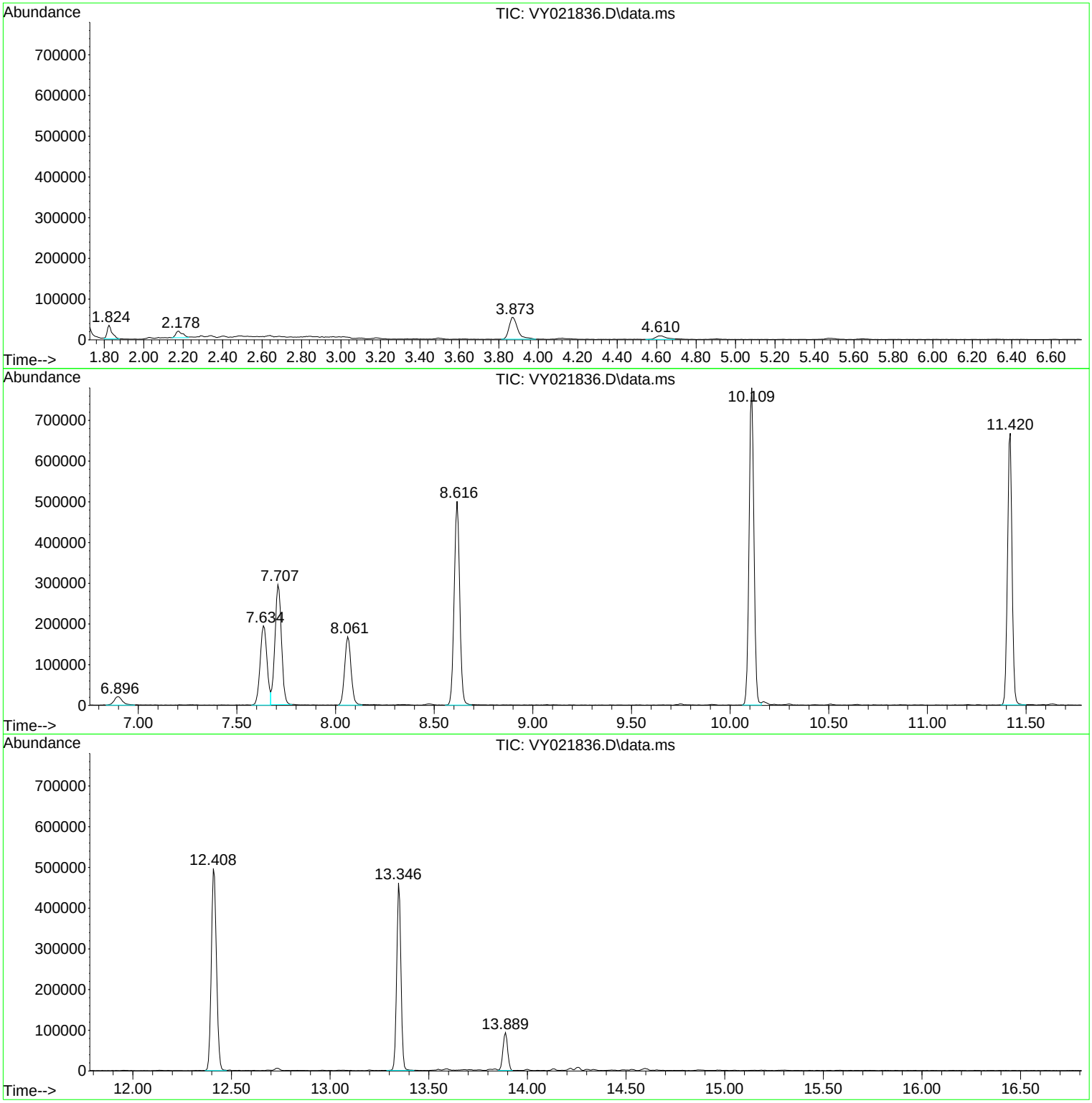
Sum of corrected areas: 7001128

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021836.D
Acq On : 10 Apr 2025 14:26
Operator : SY/MD
Sample : Q1744-03
Misc : 5.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021836.D
Acq On : 10 Apr 2025 14:26
Operator : SY/MD
Sample : Q1744-03
Misc : 5.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY041025\
Data File : VY021836.D
Acq On : 10 Apr 2025 14:26
Operator : SY/MD
Sample : Q1744-03
Misc : 5.34g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
B-158-SB02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Time: Apr 11 01:49:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	241941	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	436661	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	362482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	131635	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122060	46.564	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.120%		
35) Dibromofluoromethane	7.640	113	141417	49.926	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.860%		
50) Toluene-d8	10.109	98	522401	48.479	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.960%		
62) 4-Bromofluorobenzene	12.408	95	139589	38.297	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	76.600%		

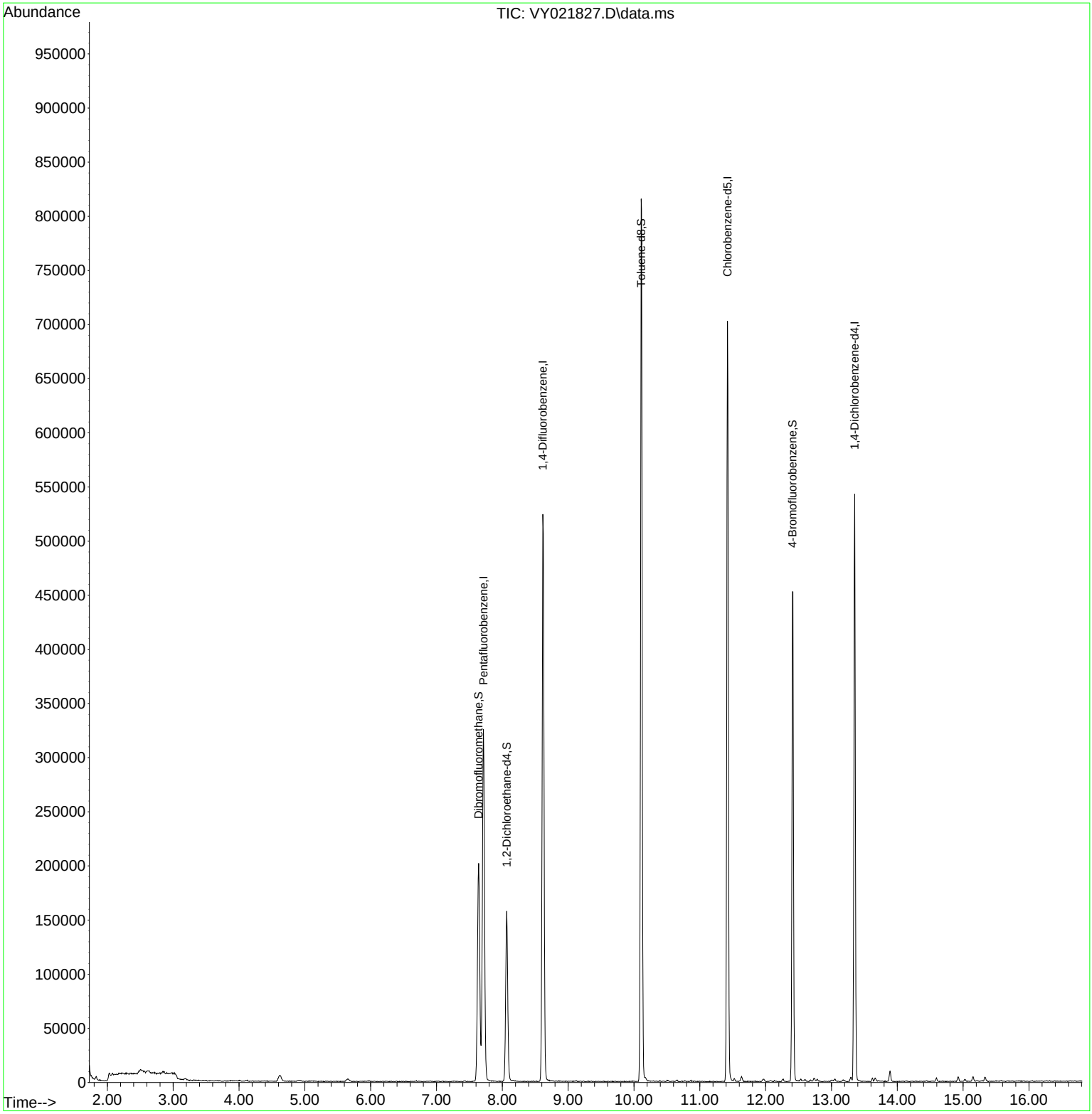
Target Compounds Qvalue

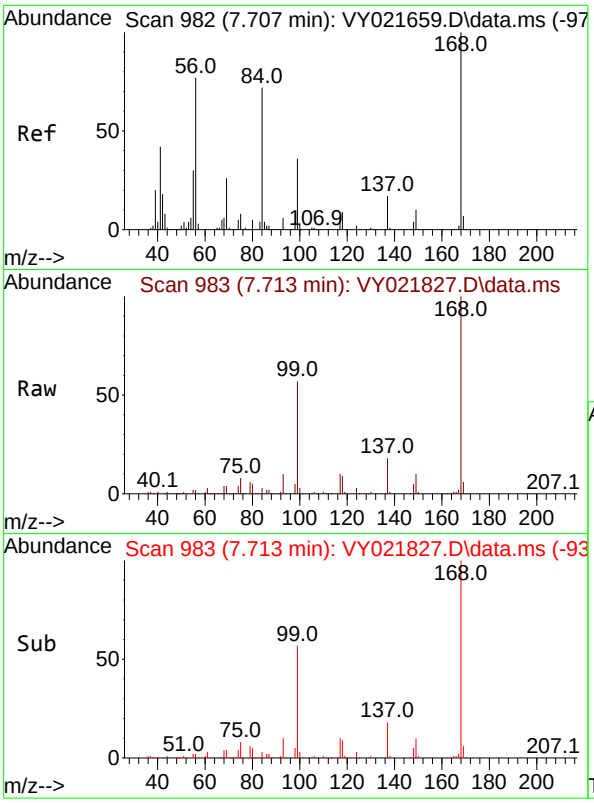
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Time: Apr 11 01:49:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration



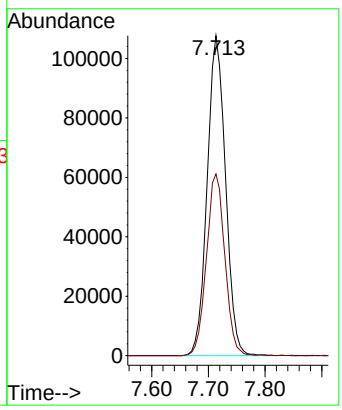


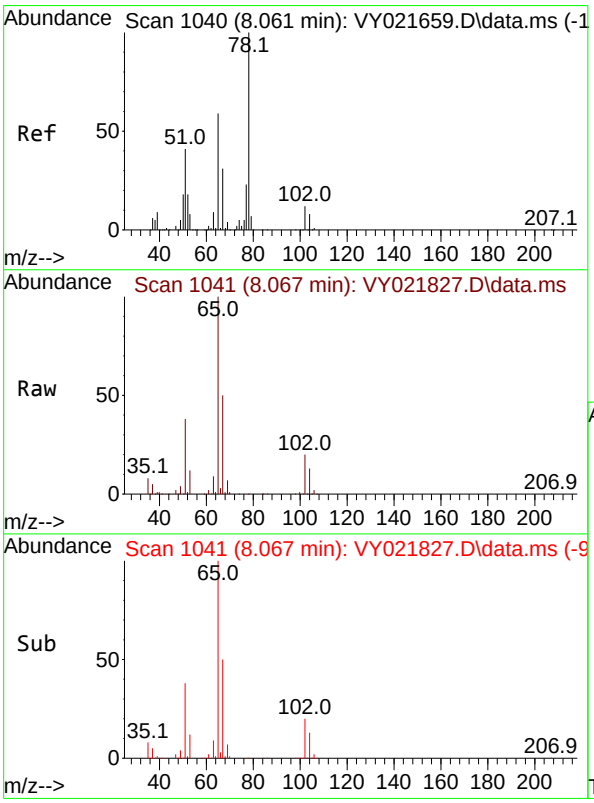
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion:168 Resp: 241941

Ion	Ratio	Lower	Upper
168	100		
99	56.8	46.7	70.1

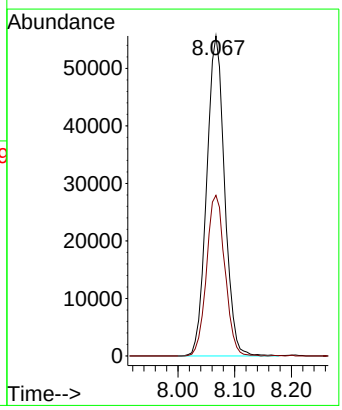


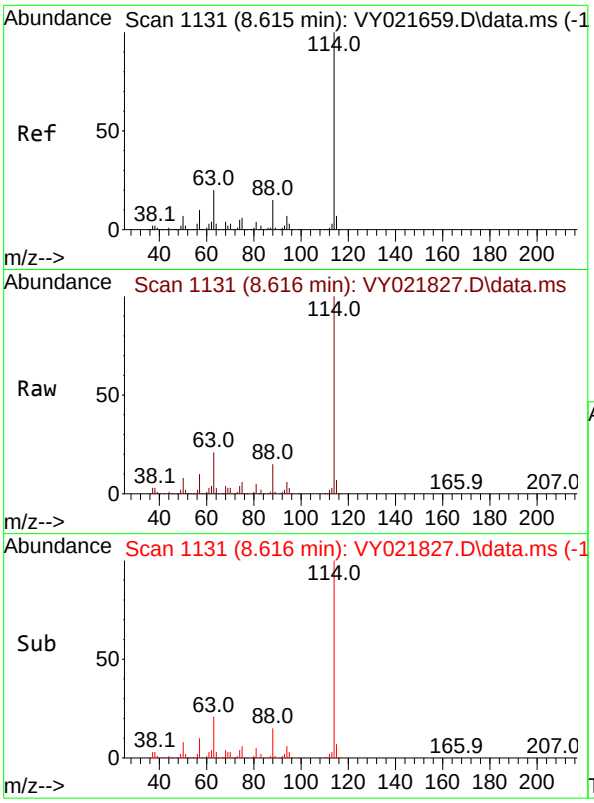


#33
1,2-Dichloroethane-d4
Concen: 46.564 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion: 65 Resp: 122060

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	104.6



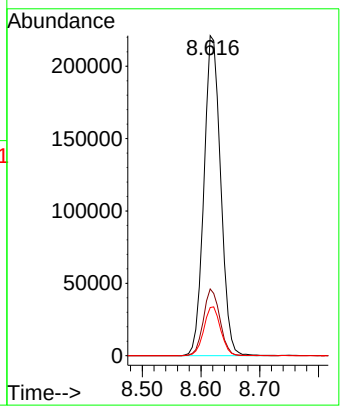


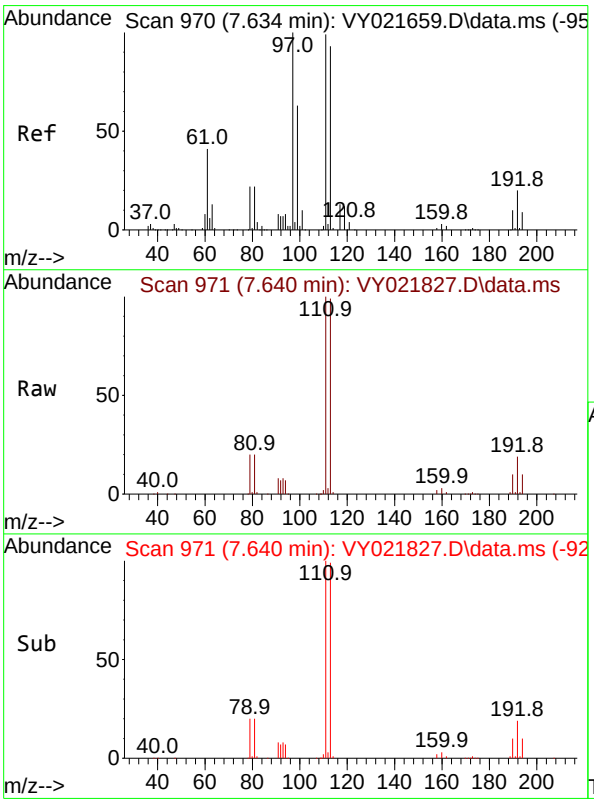
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion:114 Resp: 436661

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.2
88	15.0	0.0	29.8

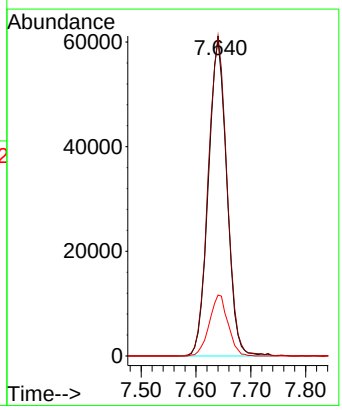


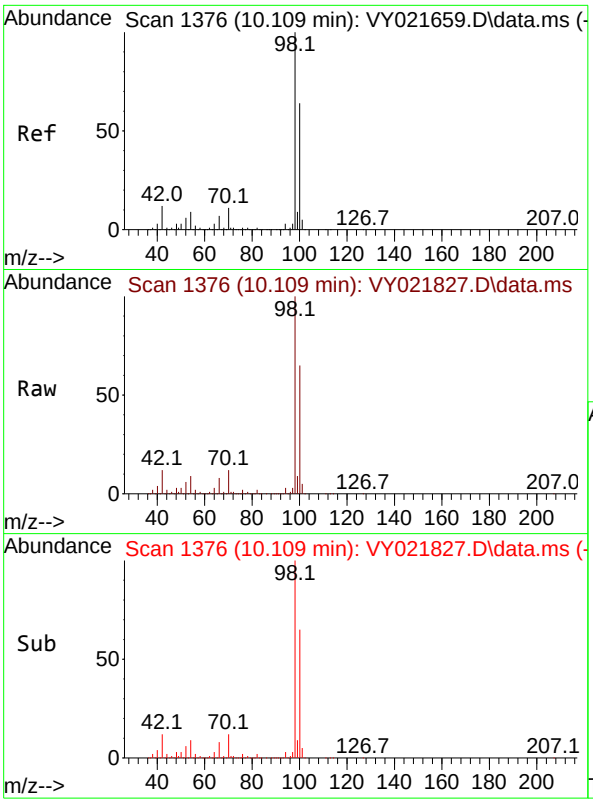


#35
Dibromofluoromethane
Concen: 49.926 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion:113 Resp: 141417

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.6	123.8
192	19.4	16.2	24.4



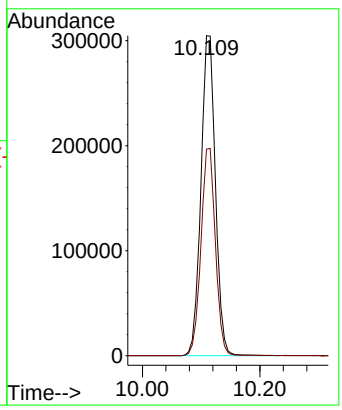


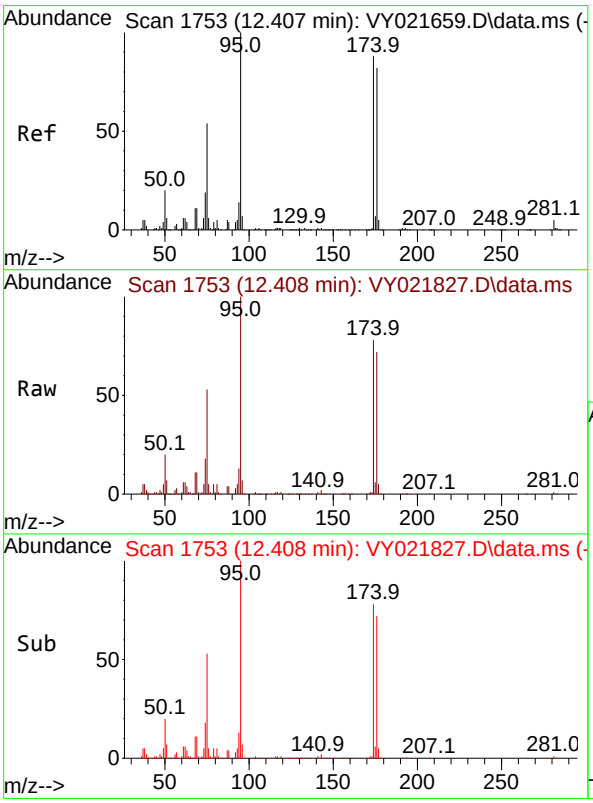
#50
Toluene-d8
Concen: 48.479 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion: 98 Resp: 522401

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.1	78.1

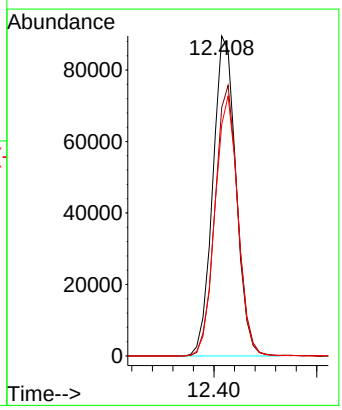


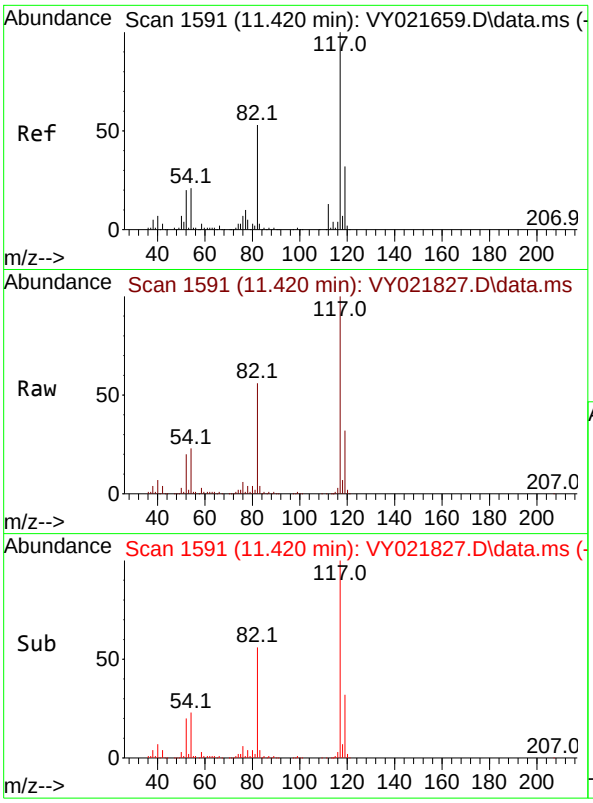


#62
4-Bromofluorobenzene
Concen: 38.297 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion: 95 Resp: 139589

Ion	Ratio	Lower	Upper
95	100		
174	83.3	0.0	170.8
176	80.5	0.0	162.0



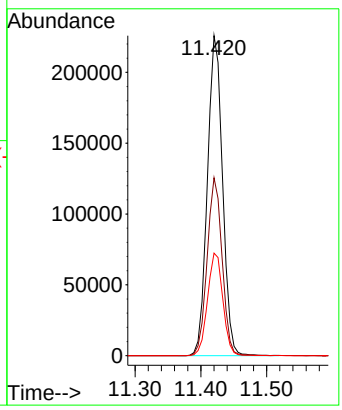


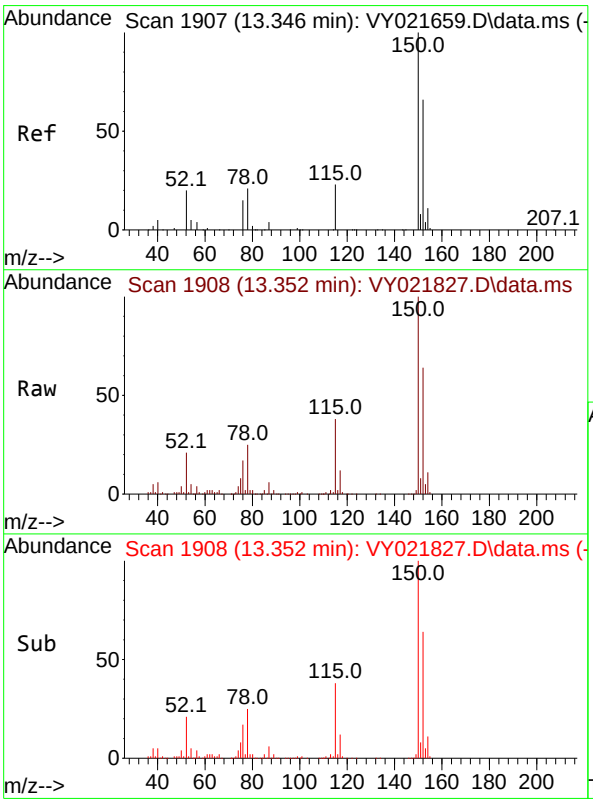
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Tgt Ion:117 Resp: 362482

Ion	Ratio	Lower	Upper
117	100		
82	55.6	42.8	64.2
119	32.1	25.7	38.5

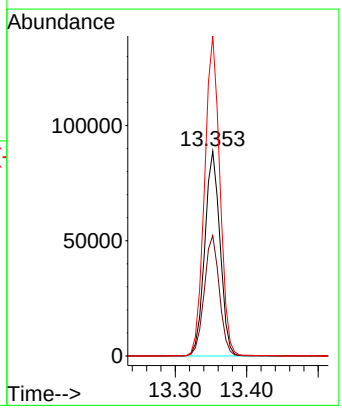




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY021827.D
Acq: 10 Apr 2025 10:28

Tgt Ion:152 Resp: 131635

Ion	Ratio	Lower	Upper
152	100		
115	58.3	28.8	86.5
150	157.0	0.0	348.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

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\82Y032725S.M
Title : SW846 8260

Signal : TIC: VY021827.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.031	44	51	54	rBV2	7198	15307	1.09%	0.228%
2	4.616	467	475	487	rBV4	5587	18418	1.32%	0.274%
3	7.640	961	971	977	rBV2	201212	482255	34.47%	7.170%
4	7.713	977	983	998	rVB	324739	729522	52.14%	10.846%
5	8.067	1031	1041	1054	rBV	157406	345294	24.68%	5.134%
6	8.616	1122	1131	1146	rBV	523823	1036542	74.08%	15.411%
7	10.109	1369	1376	1385	rBV	815279	1399248	100.00%	20.804%
8	11.420	1584	1591	1605	rBV	702355	1135945	81.18%	16.889%
9	12.408	1747	1753	1763	rBV	452170	733514	52.42%	10.906%
10	13.353	1902	1908	1922	rVB	542232	814033	58.18%	12.103%
11	13.889	1991	1996	2005	rVB3	9424	15827	1.13%	0.235%

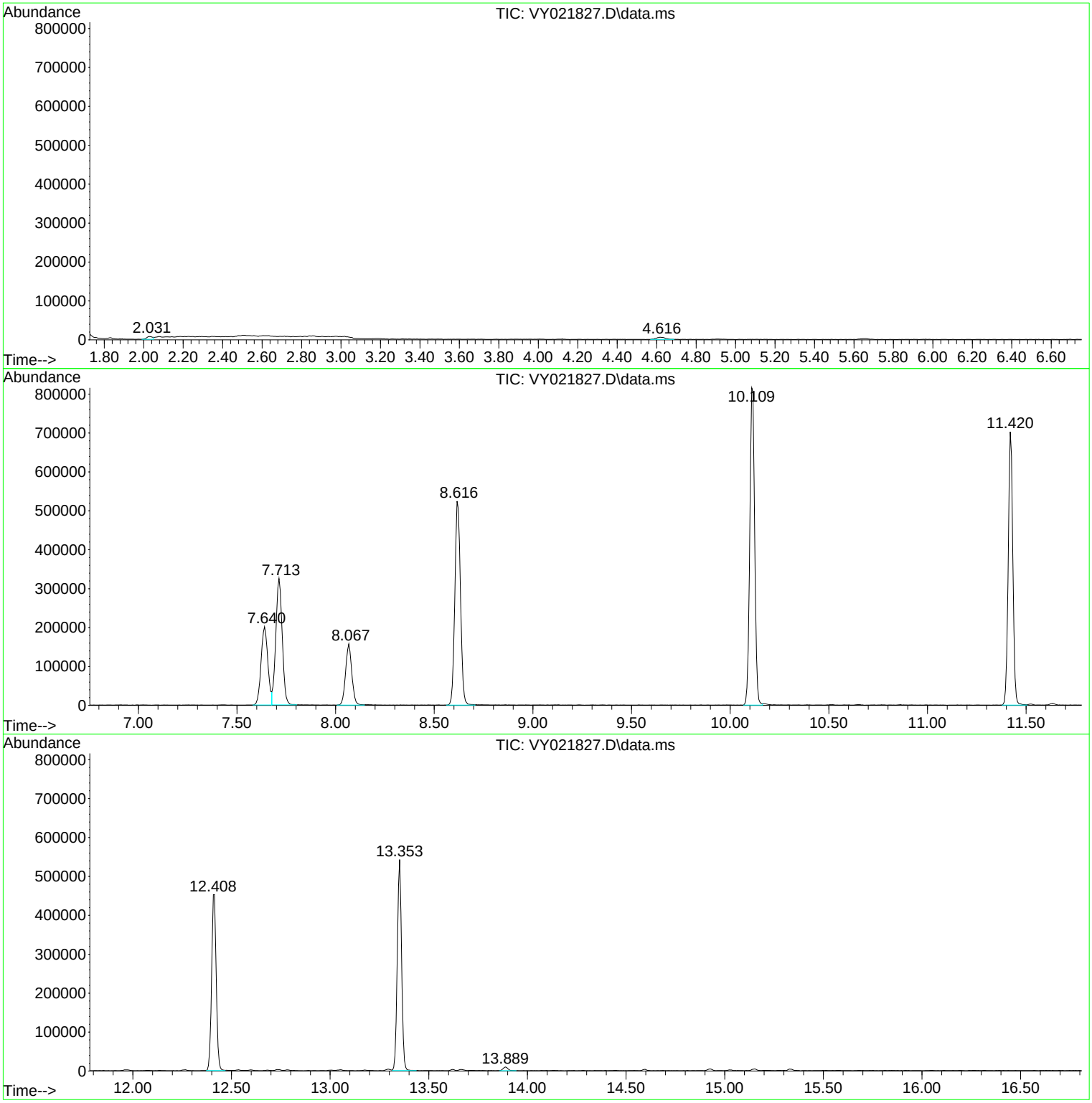
Sum of corrected areas: 6725905

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.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\VY041025\
Data File : VY021827.D
Acq On : 10 Apr 2025 10:28
Operator : SY/MD
Sample : VY0410SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	202932	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	310477	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	276303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	144045	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	108092	49.162	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.320%			
35) Dibromofluoromethane	7.634	113	107537	53.394	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.780%			
50) Toluene-d8	10.109	98	416120	54.310	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 108.620%			
62) 4-Bromofluorobenzene	12.408	95	138064	53.273	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.540%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	38628	18.365	ug/l	99
3) Chloromethane	2.068	50	58925	19.923	ug/l	96
4) Vinyl Chloride	2.208	62	64218	19.200	ug/l	98
5) Bromomethane	2.592	94	43240	18.954	ug/l	99
6) Chloroethane	2.739	64	42301	19.327	ug/l	99
7) Trichlorofluoromethane	3.062	101	83189	19.415	ug/l	99
8) Diethyl Ether	3.458	74	21206	18.199	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	46562	20.604	ug/l	99
10) Methyl Iodide	4.007	142	53784	21.694	ug/l	98
11) Tert butyl alcohol	4.879	59	10132	70.946	ug/l	95
12) 1,1-Dichloroethene	3.793	96	42528	19.980	ug/l	99
13) Acrolein	3.653	56	11686	44.814	ug/l	94
14) Allyl chloride	4.385	41	65088	19.178	ug/l	99
15) Acrylonitrile	5.068	53	43512	89.436	ug/l	98
16) Acetone	3.873	43	41416	92.038	ug/l	96
17) Carbon Disulfide	4.110	76	130398	18.599	ug/l	97
18) Methyl Acetate	4.397	43	20074	17.999	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	92229	17.404	ug/l	98
20) Methylene Chloride	4.622	84	50670	20.749	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	45867	19.571	ug/l	97
22) Diisopropyl ether	6.019	45	141226	19.837	ug/l	96
23) Vinyl Acetate	5.964	43	365289	87.708	ug/l	100
24) 1,1-Dichloroethane	5.921	63	86526	20.326	ug/l	97
25) 2-Butanone	6.896	43	56134	87.338	ug/l	96
26) 2,2-Dichloropropane	6.890	77	75531	19.946	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	51999	19.730	ug/l	98
28) Bromochloromethane	7.250	49	34985	19.487	ug/l	99
29) Tetrahydrofuran	7.262	42	32784	79.255	ug/l	99
30) Chloroform	7.427	83	88600	20.010	ug/l	96
31) Cyclohexane	7.701	56	71321	18.379	ug/l	93
32) 1,1,1-Trichloroethane	7.622	97	80250	20.053	ug/l	99
36) 1,1-Dichloropropene	7.841	75	62612	20.410	ug/l	98
37) Ethyl Acetate	6.982	43	24672	17.041	ug/l	97
38) Carbon Tetrachloride	7.823	117	72409	20.609	ug/l	96
39) Methylcyclohexane	9.116	83	71676	19.559	ug/l	98
40) Benzene	8.085	78	187821	20.444	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	14459m	18.806	ug/l		
42) 1,2-Dichloroethane	8.165	62	51955	20.061	ug/l		99
43) Isopropyl Acetate	8.201	43	49178	17.925	ug/l		98
44) Trichloroethene	8.872	130	48276	20.624	ug/l		95
45) 1,2-Dichloropropane	9.146	63	45055	20.719	ug/l		96
46) Dibromomethane	9.238	93	24846	19.825	ug/l		96
47) Bromodichloromethane	9.426	83	66235	20.396	ug/l		96
48) Methyl methacrylate	9.225	41	22658	17.994	ug/l		96
49) 1,4-Dioxane	9.244	88	4766	354.991	ug/l		91
51) 4-Methyl-2-Pentanone	10.000	43	122559	85.840	ug/l		100
52) Toluene	10.176	92	120366	21.000	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	55243	19.152	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	66307	19.486	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	32227	19.982	ug/l		99
56) Ethyl methacrylate	10.445	69	37122	18.026	ug/l		98
57) 1,3-Dichloropropane	10.719	76	55701	19.997	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	94741	94.305	ug/l		99
59) 2-Hexanone	10.768	43	82164	86.409	ug/l		99
60) Dibromochloromethane	10.914	129	44255	20.098	ug/l		97
61) 1,2-Dibromoethane	11.018	107	30322	20.042	ug/l		98
64) Tetrachloroethene	10.652	164	52581	20.895	ug/l		99
65) Chlorobenzene	11.444	112	130234	20.562	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	46518	20.700	ug/l		100
67) Ethyl Benzene	11.524	91	222629	20.498	ug/l		100
68) m/p-Xylenes	11.633	106	174884	42.050	ug/l		99
69) o-Xylene	11.957	106	78381	20.417	ug/l		99
70) Styrene	11.975	104	131308	20.514	ug/l		100
71) Bromoform	12.133	173	24956	19.469	ug/l	#	98
73) Isopropylbenzene	12.261	105	211237	19.744	ug/l		100
74) N-amyl acetate	12.072	43	42471	16.915	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.511	83	34921	18.155	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	28984m	20.299	ug/l		
77) Bromobenzene	12.536	156	50775	19.766	ug/l		97
78) n-propylbenzene	12.597	91	263112	20.456	ug/l		100
79) 2-Chlorotoluene	12.682	91	150601	20.159	ug/l		100
80) 1,3,5-Trimethylbenzene	12.743	105	176133	20.143	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	10119	16.329	ug/l		98
82) 4-Chlorotoluene	12.780	91	156256	20.062	ug/l		98
83) tert-Butylbenzene	12.999	119	151289	19.425	ug/l		97
84) 1,2,4-Trimethylbenzene	13.048	105	178636	20.670	ug/l		99
85) sec-Butylbenzene	13.176	105	233001	20.471	ug/l		100
86) p-Isopropyltoluene	13.298	119	192832	20.499	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	104101	20.569	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	102343	20.468	ug/l		98
89) n-Butylbenzene	13.621	91	177878	20.446	ug/l		100
90) Hexachloroethane	13.883	117	41809	20.281	ug/l		99
91) 1,2-Dichlorobenzene	13.664	146	89555	20.328	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5251	17.613	ug/l		100
93) 1,2,4-Trichlorobenzene	14.926	180	47966	20.077	ug/l		100
94) Hexachlorobutadiene	15.029	225	32148	21.546	ug/l		97
95) Naphthalene	15.145	128	69458	17.539	ug/l		99
96) 1,2,3-Trichlorobenzene	15.334	180	39920	19.594	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

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

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

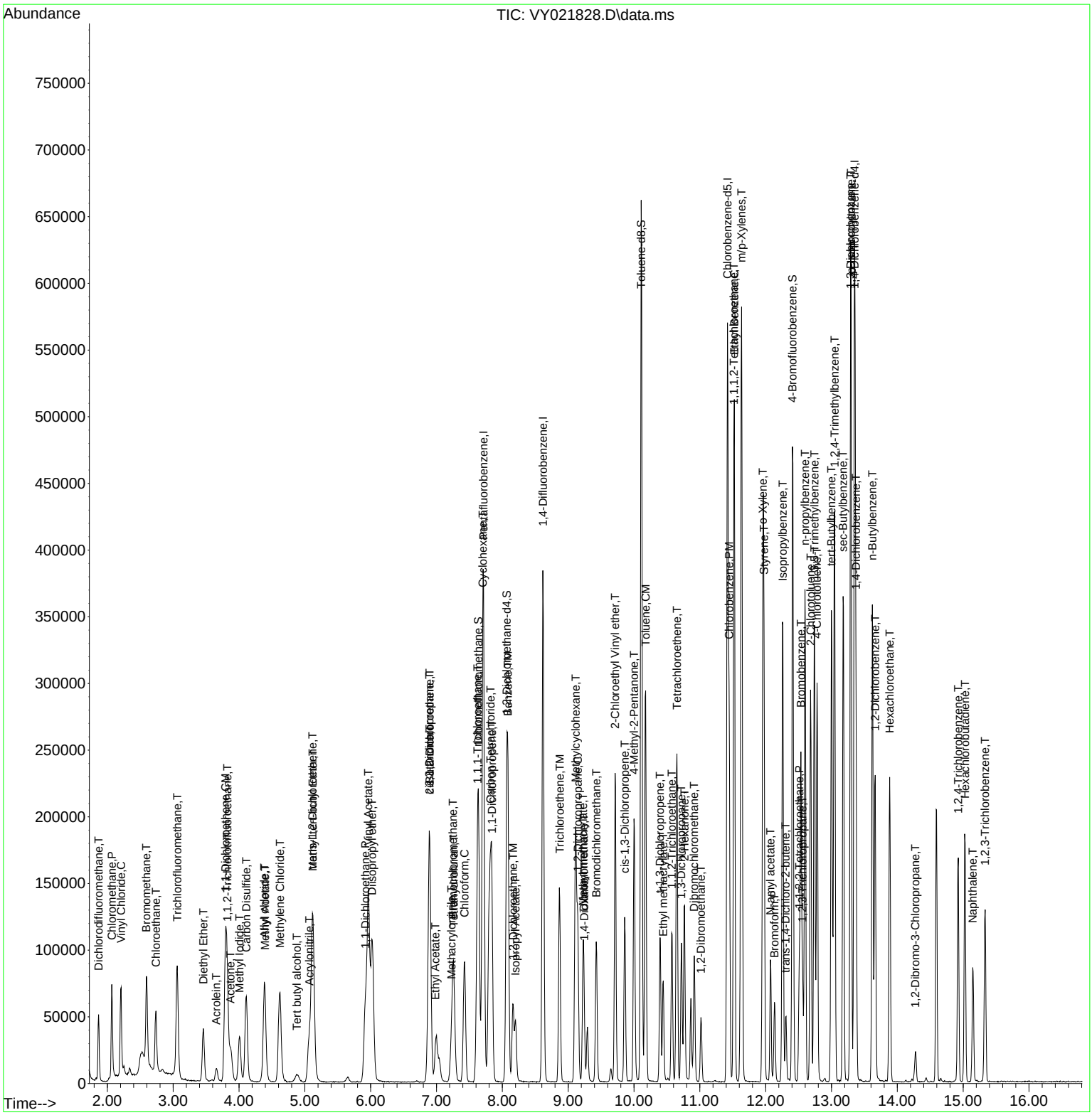
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021828.D
Acq On : 10 Apr 2025 10:59
Operator : SY/MD
Sample : VY0410SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 11 01:49:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021829.D
Acq On : 10 Apr 2025 11:22
Operator : SY/MD
Sample : VY0410SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 01:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	207811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	318832	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	284393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	148690	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	109229	48.512	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.020%			
35) Dibromofluoromethane	7.634	113	105361	50.943	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.880%			
50) Toluene-d8	10.109	98	404007	51.348	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.700%			
62) 4-Bromofluorobenzene	12.407	95	134999	50.726	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	39252	18.224	ug/l	100
3) Chloromethane	2.068	50	59786	19.740	ug/l	97
4) Vinyl Chloride	2.202	62	63877	18.649	ug/l	98
5) Bromomethane	2.592	94	43697	18.705	ug/l	98
6) Chloroethane	2.732	64	42704	19.053	ug/l	97
7) Trichlorofluoromethane	3.055	101	84703	19.305	ug/l	96
8) Diethyl Ether	3.458	74	22632	18.967	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.811	101	46252	19.986	ug/l	99
10) Methyl Iodide	4.007	142	55133	21.716	ug/l	100
11) Tert butyl alcohol	4.872	59	12367	84.563	ug/l #	88
12) 1,1-Dichloroethene	3.793	96	40908	18.767	ug/l	93
13) Acrolein	3.659	56	13077	48.971	ug/l	98
14) Allyl chloride	4.384	41	64598	18.587	ug/l	98
15) Acrylonitrile	5.067	53	47442	95.225	ug/l	99
16) Acetone	3.878	43	43633	94.688	ug/l	98
17) Carbon Disulfide	4.104	76	131412	18.304	ug/l	98
18) Methyl Acetate	4.391	43	23701	20.753	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	101520	18.707	ug/l	97
20) Methylene Chloride	4.616	84	50284	19.978	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	46410	19.338	ug/l	96
22) Diisopropyl ether	6.018	45	143976	19.749	ug/l	97
23) Vinyl Acetate	5.963	43	388600	91.114	ug/l	99
24) 1,1-Dichloroethane	5.921	63	86621	19.870	ug/l	99
25) 2-Butanone	6.902	43	60799	92.375	ug/l	98
26) 2,2-Dichloropropane	6.884	77	75992	19.597	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	52039	19.281	ug/l	99
28) Bromochloromethane	7.244	49	35396	19.253	ug/l	99
29) Tetrahydrofuran	7.268	42	38098	89.940	ug/l	99
30) Chloroform	7.421	83	91139	20.100	ug/l	98
31) Cyclohexane	7.707	56	71948	18.105	ug/l	92
32) 1,1,1-Trichloroethane	7.622	97	80786	19.713	ug/l	100
36) 1,1-Dichloropropene	7.835	75	63772	20.244	ug/l	99
37) Ethyl Acetate	6.988	43	28649	19.270	ug/l	99
38) Carbon Tetrachloride	7.817	117	72496	20.093	ug/l	97
39) Methylcyclohexane	9.109	83	71764	19.070	ug/l	96
40) Benzene	8.079	78	191172	20.264	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021829.D
Acq On : 10 Apr 2025 11:22
Operator : SY/MD
Sample : VY0410SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 01:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	13035	16.509	ug/l	#	100
42) 1,2-Dichloroethane	8.158	62	53226	20.013	ug/l		100
43) Isopropyl Acetate	8.195	43	52654	18.689	ug/l		97
44) Trichloroethene	8.865	130	49203	20.469	ug/l		99
45) 1,2-Dichloropropane	9.140	63	45352	20.309	ug/l		97
46) Dibromomethane	9.231	93	26214	20.368	ug/l		96
47) Bromodichloromethane	9.426	83	68651	20.586	ug/l		97
48) Methyl methacrylate	9.219	41	24785	19.167	ug/l		99
49) 1,4-Dioxane	9.231	88	5304	384.711	ug/l		92
51) 4-Methyl-2-Pentanone	9.999	43	140723	95.979	ug/l		99
52) Toluene	10.170	92	122020	20.730	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	57294	19.343	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	66901	19.145	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	34280	20.698	ug/l		97
56) Ethyl methacrylate	10.438	69	40341	19.076	ug/l		98
57) 1,3-Dichloropropane	10.719	76	58064	20.300	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	104087	100.892	ug/l		99
59) 2-Hexanone	10.761	43	92479	94.709	ug/l		100
60) Dibromochloromethane	10.914	129	46927	20.753	ug/l		100
61) 1,2-Dibromoethane	11.017	107	30845	19.853	ug/l		99
64) Tetrachloroethene	10.646	164	53276	20.569	ug/l		98
65) Chlorobenzene	11.444	112	130948	20.086	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	47375	20.482	ug/l		99
67) Ethyl Benzene	11.517	91	222087	19.866	ug/l		99
68) m/p-Xylenes	11.627	106	173922	40.629	ug/l		99
69) o-Xylene	11.956	106	79796	20.194	ug/l		99
70) Styrene	11.969	104	133731	20.298	ug/l		99
71) Bromoform	12.133	173	26634	20.187	ug/l	#	99
73) Isopropylbenzene	12.255	105	210811	19.089	ug/l		100
74) N-amyl acetate	12.072	43	45971	17.737	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	37011	18.640	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	29935m	20.310	ug/l		
77) Bromobenzene	12.535	156	51940	19.588	ug/l		99
78) n-propylbenzene	12.596	91	262187	19.747	ug/l		99
79) 2-Chlorotoluene	12.682	91	150997	19.580	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	176431	19.547	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	10813	16.904	ug/l		96
82) 4-Chlorotoluene	12.779	91	158350	19.696	ug/l		100
83) tert-Butylbenzene	12.999	119	153070	19.040	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	178830	20.046	ug/l		100
85) sec-Butylbenzene	13.176	105	232616	19.799	ug/l		100
86) p-Isopropyltoluene	13.291	119	193062	19.882	ug/l		100
87) 1,3-Dichlorobenzene	13.291	146	103726	19.855	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	103913	20.132	ug/l		98
89) n-Butylbenzene	13.621	91	175553	19.549	ug/l		99
90) Hexachloroethane	13.883	117	41979	19.728	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	91313	20.079	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5989	19.461	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	51079	20.712	ug/l		99
94) Hexachlorobutadiene	15.023	225	32403	21.038	ug/l		99
95) Naphthalene	15.145	128	81360	19.903	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	44068	20.955	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021829.D
Acq On : 10 Apr 2025 11:22
Operator : SY/MD
Sample : VY0410SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 01:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025

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

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

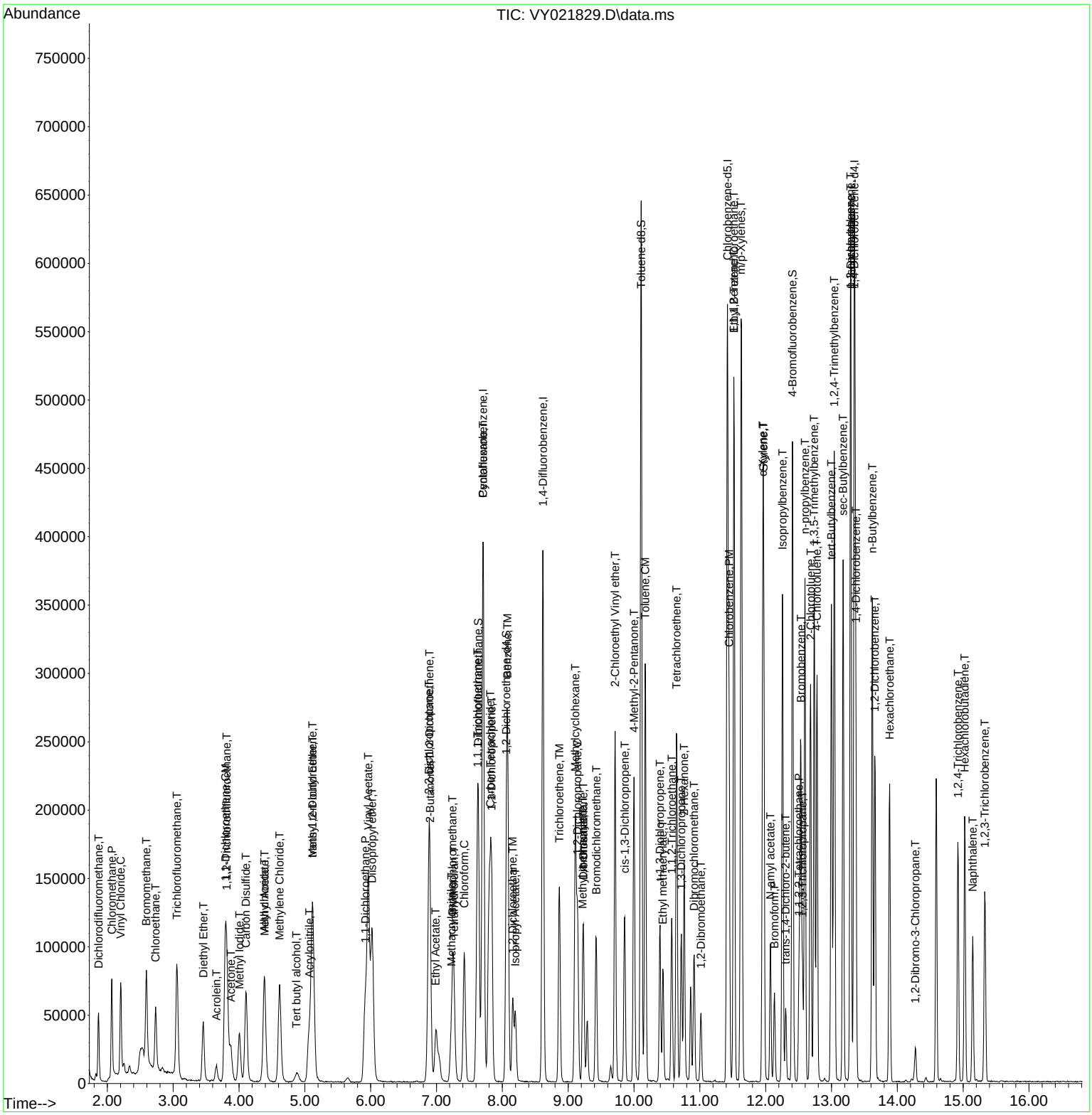
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
Data File : VY021829.D
Acq On : 10 Apr 2025 11:22
Operator : SY/MD
Sample : VY0410SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 11 01:49:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0410SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 04/11/2025
Supervised By :Semsettin Yesilyurt 04/11/2025



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

Manual Integration Report

Sequence:	vy032725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC050	VY021659.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICCC050	VY021659.D	Methacrylonitrile	Romaben	3/28/2025 9:14:38 AM	MMDadoda	3/28/2025 9:32:45 AM	Peak Integrated by Software
VSTDICC100	VY021660.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:15 AM	MMDadoda	3/28/2025 9:32:49 AM	Peak Integrated by Software
VSTDICC150	VY021661.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:43 AM	MMDadoda	3/28/2025 9:32:53 AM	Peak Integrated by Software
VSTDICC020	VY021658.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:20 AM	MMDadoda	3/28/2025 9:32:41 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC010	VY021657.D	Methacrylonitrile	Romaben	3/28/2025 9:14:32 AM	MMDadoda	3/28/2025 9:32:37 AM	Peak Integrated by Software
VSTDICC005	VY021656.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICC005	VY021656.D	Methacrylonitrile	Romaben	3/28/2025 9:14:28 AM	MMDadoda	3/28/2025 9:32:34 AM	Peak Integrated by Software
VSTDICV050	VY021663.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:15:11 AM	MMDadoda	3/28/2025 9:32:04 AM	Peak Integrated by Software
VSTDCCC050	VY021680.D	1,2,3-Trichloropropane	Romaben	3/28/2025 9:14:58 AM	MMDadoda	3/28/2025 9:32:15 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY041025	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY021826.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:51 PM	SAM	4/11/2025 2:00:34 PM	Peak Integrated by Software
VY0410SBS01	VY021828.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:53 PM	SAM	4/11/2025 2:00:35 PM	Peak Integrated by Software
VY0410SBS01	VY021828.D	Methacrylonitrile	MMDadoda	4/11/2025 1:58:53 PM	SAM	4/11/2025 2:00:35 PM	Peak Integrated by Software
VY0410SBSD01	VY021829.D	1,2,3-Trichloropropane	MMDadoda	4/11/2025 1:58:55 PM	SAM	4/11/2025 2:00:37 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021655.D	27 Mar 2025 09:23	SY/MD	Ok
2	VSTDICC005	VY021656.D	27 Mar 2025 10:08	SY/MD	Ok,M
3	VSTDICC010	VY021657.D	27 Mar 2025 10:31	SY/MD	Ok,M
4	VSTDICC020	VY021658.D	27 Mar 2025 10:54	SY/MD	Ok,M
5	VSTDICCC050	VY021659.D	27 Mar 2025 11:16	SY/MD	Ok,M
6	VSTDICC100	VY021660.D	27 Mar 2025 11:39	SY/MD	Ok,M
7	VSTDICC150	VY021661.D	27 Mar 2025 12:02	SY/MD	Ok,M
8	VIBLK	VY021662.D	27 Mar 2025 12:35	SY/MD	Ok
9	VSTDICV050	VY021663.D	27 Mar 2025 13:15	SY/MD	Ok,M
10	VY0327SBL01	VY021664.D	27 Mar 2025 13:59	SY/MD	Ok
11	VY0327SBS01	VY021665.D	27 Mar 2025 14:38	SY/MD	Ok,M
12	VY0327SBSD01	VY021666.D	27 Mar 2025 15:00	SY/MD	Ok,M
13	Q1661-02	VY021667.D	27 Mar 2025 15:24	SY/MD	Not Ok
14	Q1645-03RE	VY021668.D	27 Mar 2025 15:48	SY/MD	Confirms
15	Q1662-03	VY021669.D	27 Mar 2025 16:11	SY/MD	Not Ok
16	Q1662-07	VY021670.D	27 Mar 2025 16:35	SY/MD	ReRun
17	Q1661-02	VY021671.D	27 Mar 2025 16:58	SY/MD	Not Ok
18	Q1650-02	VY021672.D	27 Mar 2025 17:21	SY/MD	Not Ok
19	Q1654-01	VY021673.D	27 Mar 2025 17:45	SY/MD	Ok
20	Q1656-01	VY021674.D	27 Mar 2025 18:08	SY/MD	Not Ok
21	Q1648-09	VY021675.D	27 Mar 2025 18:32	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM				
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1648-07	VY021676.D	27 Mar 2025 18:55	SY/MD	Ok
23	Q1648-05	VY021677.D	27 Mar 2025 19:19	SY/MD	Ok
24	Q1648-01	VY021678.D	27 Mar 2025 19:42	SY/MD	Ok
25	Q1648-03	VY021679.D	27 Mar 2025 20:05	SY/MD	Ok
26	VSTDCCC050	VY021680.D	27 Mar 2025 20:28	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY021825.D	10 Apr 2025 08:34	SY/MD	Ok
2	VSTDCCC050	VY021826.D	10 Apr 2025 09:51	SY/MD	Ok,M
3	VY0410SBL01	VY021827.D	10 Apr 2025 10:28	SY/MD	Ok
4	VY0410SBS01	VY021828.D	10 Apr 2025 10:59	SY/MD	Ok,M
5	VY0410SBSD01	VY021829.D	10 Apr 2025 11:22	SY/MD	Ok,M
6	Q1747-01RE	VY021830.D	10 Apr 2025 12:06	SY/MD	Not Ok
7	Q1754-01RE	VY021831.D	10 Apr 2025 12:29	SY/MD	Not Ok
8	Q1732-03	VY021832.D	10 Apr 2025 12:53	SY/MD	Ok
9	Q1746-01	VY021833.D	10 Apr 2025 13:16	SY/MD	Ok
10	Q1746-03	VY021834.D	10 Apr 2025 13:40	SY/MD	Ok
11	Q1744-01	VY021835.D	10 Apr 2025 14:03	SY/MD	Ok
12	Q1744-03	VY021836.D	10 Apr 2025 14:26	SY/MD	Ok
13	Q1738-01RE	VY021837.D	10 Apr 2025 14:50	SY/MD	Confirms
14	Q1749-03	VY021838.D	10 Apr 2025 15:13	SY/MD	Ok
15	Q1743-03	VY021839.D	10 Apr 2025 15:37	SY/MD	Ok
16	Q1752-01	VY021840.D	10 Apr 2025 16:00	SY/MD	Ok
17	Q1752-03	VY021841.D	10 Apr 2025 16:24	SY/MD	Ok
18	Q1752-05	VY021842.D	10 Apr 2025 16:47	SY/MD	Ok
19	Q1752-07	VY021843.D	10 Apr 2025 17:10	SY/MD	Ok
20	Q1771-03	VY021844.D	10 Apr 2025 17:34	SY/MD	Ok
21	Q1771-07	VY021845.D	10 Apr 2025 17:57	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM				
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1771-11	VY021846.D	10 Apr 2025 18:21	SY/MD	Ok
23	Q1760-03	VY021847.D	10 Apr 2025 18:44	SY/MD	Ok
24	Q1760-07	VY021848.D	10 Apr 2025 19:08	SY/MD	Dilution

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021655.D	27 Mar 2025 09:23		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY021656.D	27 Mar 2025 10:08		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY021657.D	27 Mar 2025 10:31		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY021658.D	27 Mar 2025 10:54	Comp.#20 is on Linear Regression	SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY021659.D	27 Mar 2025 11:16		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY021660.D	27 Mar 2025 11:39		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY021661.D	27 Mar 2025 12:02		SY/MD	Ok,M
8	VIBLK	VIBLK	VY021662.D	27 Mar 2025 12:35		SY/MD	Ok
9	VSTDICV050	ICVVY032725	VY021663.D	27 Mar 2025 13:15		SY/MD	Ok,M
10	VY0327SBL01	VY0327SBL01	VY021664.D	27 Mar 2025 13:59		SY/MD	Ok
11	VY0327SBS01	VY0327SBS01	VY021665.D	27 Mar 2025 14:38		SY/MD	Ok,M
12	VY0327SBSD01	VY0327SBSD01	VY021666.D	27 Mar 2025 15:00		SY/MD	Ok,M
13	Q1661-02	351	VY021667.D	27 Mar 2025 15:24	vial-B Not purge	SY/MD	Not Ok
14	Q1645-03RE	TP-4-VOCRE	VY021668.D	27 Mar 2025 15:48	vial-B Internal Standard Fail	SY/MD	Confirms
15	Q1662-03	TP-6-VOC	VY021669.D	27 Mar 2025 16:11	vial-A NOT PURGE	SY/MD	Not Ok
16	Q1662-07	TP-7-VOC	VY021670.D	27 Mar 2025 16:35	vial-A Internal Standard Fail	SY/MD	ReRun
17	Q1661-02	351	VY021671.D	27 Mar 2025 16:58	vial-A NOT PURGE	SY/MD	Not Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY032725

Review By	Mahesh Dadoda	Review On	3/28/2025 3:29:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	3/28/2025 3:30:48 PM		
SubDirectory	VY032725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133499
Initial Calibration Stds	VP133500,VP133501,VP133502,VP133503,VP133505,VP133508
CCC	VP133510
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133509
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1650-02	STOCK-PILE-BIN2	VY021672.D	27 Mar 2025 17:21	vial-A NOT PURGE	SY/MD	Not Ok
19	Q1654-01	RT3407	VY021673.D	27 Mar 2025 17:45	vial-A Internal Standard Fail	SY/MD	Ok
20	Q1656-01	VNJ239	VY021674.D	27 Mar 2025 18:08	vial-A NOT PURGE	SY/MD	Not Ok
21	Q1648-09	TP-7	VY021675.D	27 Mar 2025 18:32	vial-A	SY/MD	Ok
22	Q1648-07	TP-6	VY021676.D	27 Mar 2025 18:55	vial-A	SY/MD	Ok
23	Q1648-05	TP-3	VY021677.D	27 Mar 2025 19:19	vial-A	SY/MD	Ok
24	Q1648-01	TP-4	VY021678.D	27 Mar 2025 19:42	vial-A	SY/MD	Ok
25	Q1648-03	TP-5	VY021679.D	27 Mar 2025 20:05	vial-A	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY021680.D	27 Mar 2025 20:28		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY021825.D	10 Apr 2025 08:34		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY021826.D	10 Apr 2025 09:51		SY/MD	Ok,M
3	VY0410SBL01	VY0410SBL01	VY021827.D	10 Apr 2025 10:28		SY/MD	Ok
4	VY0410SBS01	VY0410SBS01	VY021828.D	10 Apr 2025 10:59		SY/MD	Ok,M
5	VY0410SBSD01	VY0410SBSD01	VY021829.D	10 Apr 2025 11:22		SY/MD	Ok,M
6	Q1747-01RE	ARS20-0008RE	VY021830.D	10 Apr 2025 12:06	vial-B not purged	SY/MD	Not Ok
7	Q1754-01RE	TP-1RE	VY021831.D	10 Apr 2025 12:29	vial-B Internal standard fail;Not match for com.#64	SY/MD	Not Ok
8	Q1732-03	TT-8-VOC	VY021832.D	10 Apr 2025 12:53	vial-A	SY/MD	Ok
9	Q1746-01	B-149-SB01	VY021833.D	10 Apr 2025 13:16	vial-A	SY/MD	Ok
10	Q1746-03	B-149-SB02	VY021834.D	10 Apr 2025 13:40	vial-A	SY/MD	Ok
11	Q1744-01	B-158-SB01	VY021835.D	10 Apr 2025 14:03	vial-A	SY/MD	Ok
12	Q1744-03	B-158-SB02	VY021836.D	10 Apr 2025 14:26	vial-A	SY/MD	Ok
13	Q1738-01RE	OK-02-040425RE	VY021837.D	10 Apr 2025 14:50	vial-B Internal Standard Fail	SY/MD	Confirms
14	Q1749-03	TP-14-VOC	VY021838.D	10 Apr 2025 15:13	vial-A	SY/MD	Ok
15	Q1743-03	TP-16-VOC	VY021839.D	10 Apr 2025 15:37	vial-A	SY/MD	Ok
16	Q1752-01	TP-1	VY021840.D	10 Apr 2025 16:00	vial-A	SY/MD	Ok
17	Q1752-03	TP-2	VY021841.D	10 Apr 2025 16:24	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY041025

Review By	Mahesh Dadoda	Review On	4/11/2025 1:59:08 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/11/2025 2:00:45 PM		
SubDirectory	VY041025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y032725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133628
Initial Calibration Stds	
CCC	VP133629,VP133630
Internal Standard/PEM	VP131783
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1752-05	TP-4	VY021842.D	10 Apr 2025 16:47	vial-A	SY/MD	Ok
19	Q1752-07	TP-3	VY021843.D	10 Apr 2025 17:10	vial-A	SY/MD	Ok
20	Q1771-03	TP-6C-VOC	VY021844.D	10 Apr 2025 17:34	vial-A	SY/MD	Ok
21	Q1771-07	TP-7C-VOC	VY021845.D	10 Apr 2025 17:57	vial-A	SY/MD	Ok
22	Q1771-11	TP-3A-VOC	VY021846.D	10 Apr 2025 18:21	vial-A	SY/MD	Ok
23	Q1760-03	TP-17-VOC	VY021847.D	10 Apr 2025 18:44	vial-A	SY/MD	Ok
24	Q1760-07	TP-15-VOC	VY021848.D	10 Apr 2025 19:08	vial-A Internal Standard Fail; Surrogate Fail;Need MeoH	SY/MD	Dilution

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			VOC-TCLVOA-10	8260D			04/10/25	
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP VOA	8260D			04/08/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			VOC-TCLVOA-10	8260D			04/10/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP VOA	8260D			04/08/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**B-158-SB01**							
Q1744-02	B-158-SB01	TCLP	2-Butanone	5.70	J	0.98	25.0	ug/L
			Total Voc :	5.70				
			Total Concentration:	5.70				
Client ID:	**B-158-SB02**							
Q1744-04	B-158-SB02	TCLP	2-Butanone	15.6	J	0.98	25.0	ug/L
			Total Voc :	15.6				
			Total Concentration:	15.6				

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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	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
VX045660.D	1		04/08/25 18:17	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	5.70	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		70 (74) - 130 (125)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.6		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64700	5.544			
540-36-3	1,4-Difluorobenzene	129000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	47000	12.018			

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
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	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
VX045661.D	1		04/08/25 18:40	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	15.6	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.7		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.9		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63900	5.544			
540-36-3	1,4-Difluorobenzene	127000	6.757			
3114-55-4	Chlorobenzene-d5	122000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51100	12.018			

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.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1744-02	B-158-SB01	1,2-Dichloroethane-d4	50	55.1	110	70 (74)	130 (125)
		Dibromofluoromethane	50	51.4	103	70 (75)	130 (124)
		Toluene-d8	50	51.6	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.1	100	70 (77)	130 (121)
Q1744-04	B-158-SB02	1,2-Dichloroethane-d4	50	54.7	109	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103	70 (75)	130 (124)
		Toluene-d8	50	51.9	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.0	106	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX0408WBL01	VX0408WBL01	1,2-Dichloroethane-d4	50	55.5	111	70 (74)	130 (125)
		Dibromofluoromethane	50	52.7	105	70 (75)	130 (124)
		Toluene-d8	50	51.4	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.9	104	70 (77)	130 (121)
VX0408WBS01	VX0408WBS01	1,2-Dichloroethane-d4	50	47.7	95	70 (74)	130 (125)
		Dibromofluoromethane	50	47.4	95	70 (75)	130 (124)
		Toluene-d8	50	47.7	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)
VX0408WBSD0	VX0408WBSD01	1,2-Dichloroethane-d4	50	48.2	96	70 (74)	130 (125)
		Dibromofluoromethane	50	47.7	95	70 (75)	130 (124)
		Toluene-d8	50	47.7	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.6	99	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045638.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0408WBS01	Vinyl chloride	20	17.3	ug/L	86			70 (65)	130 (117)	
	1,1-Dichloroethene	20	17.2	ug/L	86			70 (74)	130 (110)	
	2-Butanone	100	92.0	ug/L	92			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.5	ug/L	93			70 (77)	130 (113)	
	Chloroform	20	17.6	ug/L	88			70 (79)	130 (113)	
	Benzene	20	17.6	ug/L	88			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.2	ug/L	91			70 (80)	130 (115)	
	Trichloroethene	20	17.6	ug/L	88			70 (77)	130 (113)	
	Tetrachloroethene	20	17.8	ug/L	89			70 (67)	130 (123)	
	Chlorobenzene	20	17.9	ug/L	90			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8260-Low **Datafile :** VX045639.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0408WBSD01	Vinyl chloride	20	17.6	ug/L	88	2		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	18.1	ug/L	91	6		70 (74)	130 (110)	20 (20)
	2-Butanone	100	97.9	ug/L	98	6		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	19.5	ug/L	98	5		70 (77)	130 (113)	20 (20)
	Chloroform	20	18.9	ug/L	95	8		70 (79)	130 (113)	20 (20)
	Benzene	20	19.0	ug/L	95	8		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	20.2	ug/L	101	10		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	18.6	ug/L	93	6		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	18.3	ug/L	92	3		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	18.8	ug/L	94	4		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0408WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VX045637.D Lab Sample ID: VX0408WBL01

Date Analyzed: 04/08/2025 Time Analyzed: 09:12

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
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025
VX0408WBSD01	VX0408WBSD01	VX045639.D	04/08/2025
B-158-SB01	Q1744-02	VX045660.D	04/08/2025
B-158-SB02	Q1744-04	VX045661.D	04/08/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VX045524.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_X BFB Injection Time: 16:15

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	23.6
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	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VX045634.D BFB Injection Date: 04/08/2025

Instrument ID: MSVOA_X BFB Injection Time: 07:49

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	22.9
75	30.0 - 60.0% of mass 95	58.3
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	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.9
175	5.0 - 9.0% of mass 174	5.2 (7.7) 1
176	95.0 - 101.0% of mass 174	63.8 (95.3) 1
177	5.0 - 9.0% of mass 176	4.8 (7.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045635.D	04/08/2025	08:24
VX0408WBL01	VX0408WBL01	VX045637.D	04/08/2025	09:12
VX0408WBS01	VX0408WBS01	VX045638.D	04/08/2025	09:43
VX0408WBSD01	VX0408WBSD01	VX045639.D	04/08/2025	10:08
B-158-SB01	Q1744-02	VX045660.D	04/08/2025	18:17
B-158-SB02	Q1744-04	VX045661.D	04/08/2025	18:40

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VX045635.D Date Analyzed: 04/08/2025

Instrument ID: MSVOA_X Time Analyzed: 08:24

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	102556	5.54	175513	6.75	152677	10.05
UPPER LIMIT	205112	6.038	351026	7.251	305354	10.549
LOWER LIMIT	51278	5.038	87756.5	6.251	76338.5	9.549
EPA SAMPLE NO.						
B-158-SB01	64698	5.54	128925	6.76	119671	10.05
B-158-SB02	63944	5.54	127369	6.76	121646	10.05
VX0408WBL01	66539	5.55	129800	6.76	123174	10.05
VX0408WBS01	106087	5.54	183473	6.75	162323	10.05
VX0408WBSD01	81435	5.54	140832	6.76	127042	10.05

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: VX045635.D Date Analyzed: 04/08/2025

Instrument ID: MSVOA_X Time Analyzed: 08:24

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

	IS4 AREA #	RT #				
12 HOUR STD	73644	12.018				
UPPER LIMIT	147288	12.518				
LOWER LIMIT	36822	11.518				
EPA SAMPLE NO.						
B-158-SB01	47035	12.02				
B-158-SB02	51074	12.02				
VX0408WBL01	51559	12.02				
VX0408WBS01	74710	12.02				
VX0408WBSD01	59865	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
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBL01	SDG No.:	Q1744
Lab Sample ID:	VX0408WBL01	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
VX045637.D	1		04/08/25 09:12	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.5		70 (74) - 130 (125)	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66500	5.549			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	123000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51600	12.018			

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
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBS01	SDG No.:	Q1744
Lab Sample ID:	VX0408WBS01	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
VX045638.D	1		04/08/25 09:43	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.2		0.23	1.00	ug/L
78-93-3	2-Butanone	92.0		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	1.00	ug/L
67-66-3	Chloroform	17.6		0.25	1.00	ug/L
71-43-2	Benzene	17.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.6		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	17.8		0.23	1.00	ug/L
108-90-7	Chlorobenzene	17.9		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		70 (74) - 130 (125)	95%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	5.538			
540-36-3	1,4-Difluorobenzene	183000	6.751			
3114-55-4	Chlorobenzene-d5	162000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	74700	12.018			

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
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VX0408WBSD01	SDG No.:	Q1744
Lab Sample ID:	VX0408WBSD01	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
VX045639.D	1		04/08/25 10:08	VX040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.6		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.23	1.00	ug/L
78-93-3	2-Butanone	97.9		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	1.00	ug/L
67-66-3	Chloroform	18.9		0.25	1.00	ug/L
71-43-2	Benzene	19.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.6		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	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	47.7		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	47.7		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	81400	5.544			
540-36-3	1,4-Difluorobenzene	141000	6.757			
3114-55-4	Chlorobenzene-d5	127000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59900	12.018			

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

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.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

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

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

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

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: MSVOA_X Calibration Date/Time: 04/08/2025 08:24

Lab File ID: VX045635.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.685		-2.56	20
1,1-Dichloroethene	0.600	0.591		-1.5	20
2-Butanone	0.550	0.562		2.18	20
Carbon Tetrachloride	0.518	0.541		4.44	20
Chloroform	1.306	1.256		-3.83	20
Benzene	1.463	1.424		-2.67	20
1,2-Dichloroethane	0.604	0.606		0.33	20
Trichloroethene	0.348	0.339		-2.59	20
Tetrachloroethene	0.353	0.350		-0.85	20
Chlorobenzene	1.068	1.057	0.3	-1.03	20
1,2-Dichloroethane-d4	0.914	0.864		-5.47	20
Dibromofluoromethane	0.355	0.347		-2.25	20
Toluene-d8	1.238	1.189		-3.96	20
4-Bromofluorobenzene	0.451	0.456		1.11	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\VX040825\
Data File : VX045660.D
Acq On : 08 Apr 2025 18:17
Operator : JC/MD
Sample : Q1744-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Quant Time: Apr 09 01:43:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

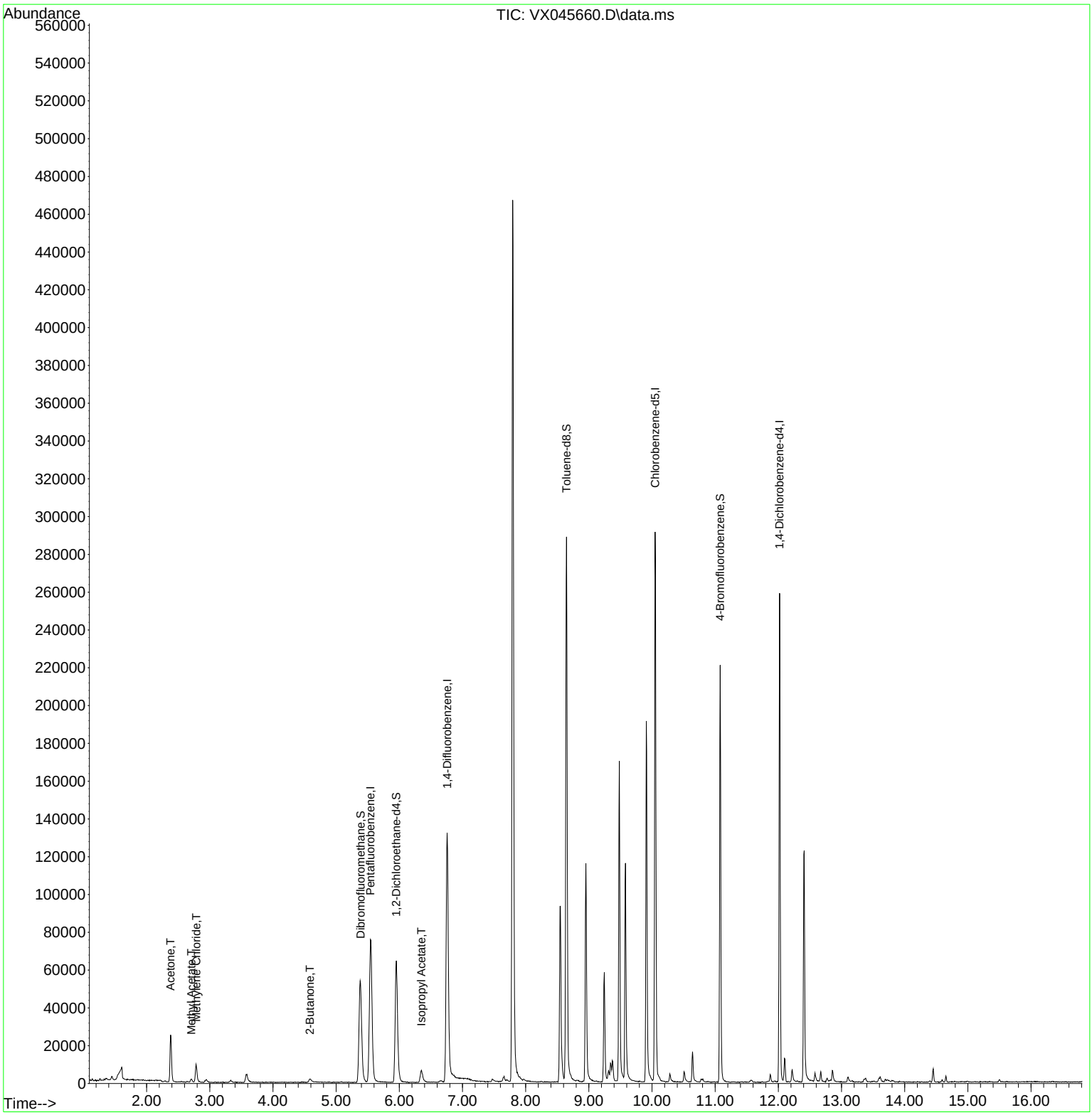
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	64698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	128925	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119671	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47035	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65192	55.100	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.200%			
35) Dibromofluoromethane	5.385	113	46981	51.361	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.720%			
50) Toluene-d8	8.647	98	164875	51.640	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.280%			
62) 4-Bromofluorobenzene	11.079	95	58226	50.067	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.140%			
Target Compounds						Qvalue
16) Acetone	2.380	43	27771	57.161	ug/l	96
18) Methyl Acetate	2.709	43	2374	2.122	ug/l #	89
20) Methylene Chloride	2.788	84	4294	4.721	ug/l #	88
25) 2-Butanone	4.587	43	4073	5.727	ug/l #	87
43) Isopropyl Acetate	6.349	43	9886	4.191	ug/l	99

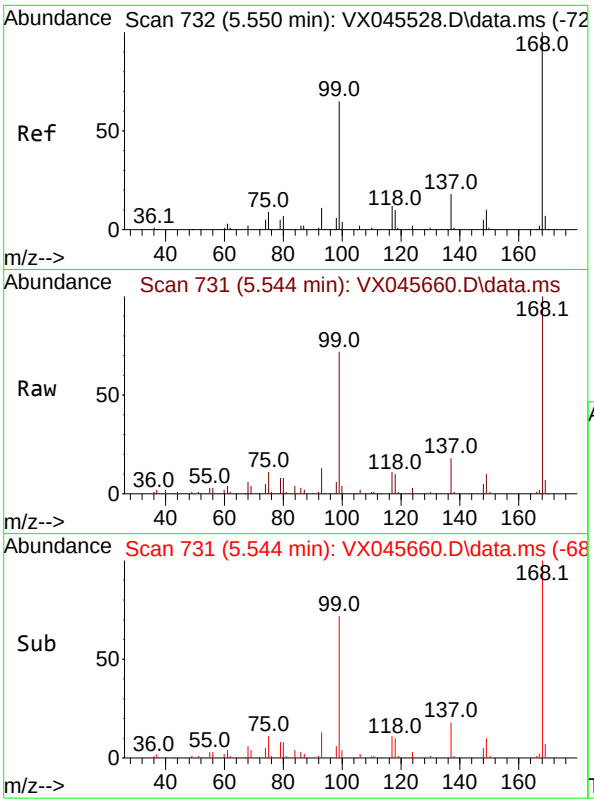
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045660.D
Acq On : 08 Apr 2025 18:17
Operator : JC/MD
Sample : Q1744-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Quant Time: Apr 09 01:43:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



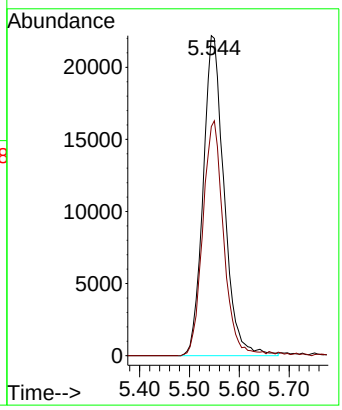


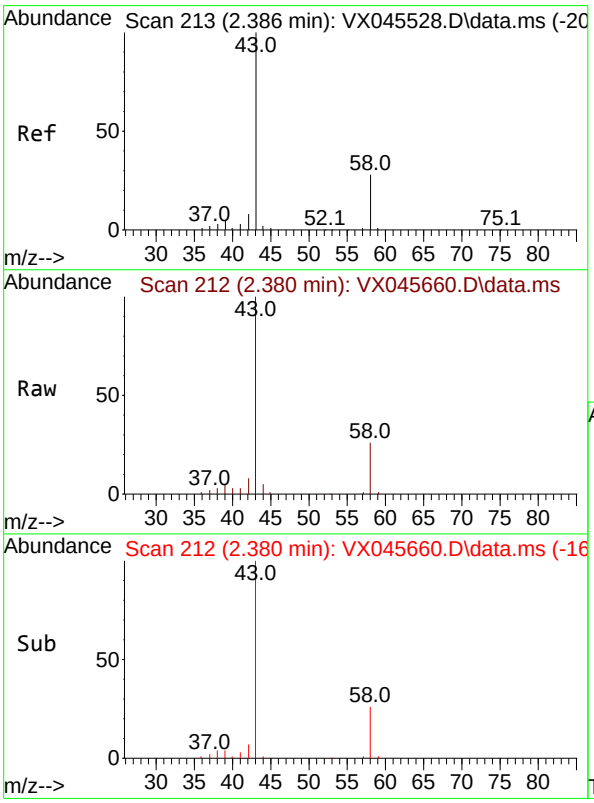
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Tgt Ion:168 Resp: 64698

Ion	Ratio	Lower	Upper
168	100		
99	71.6	52.3	78.5

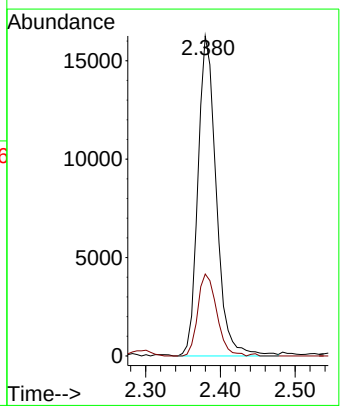


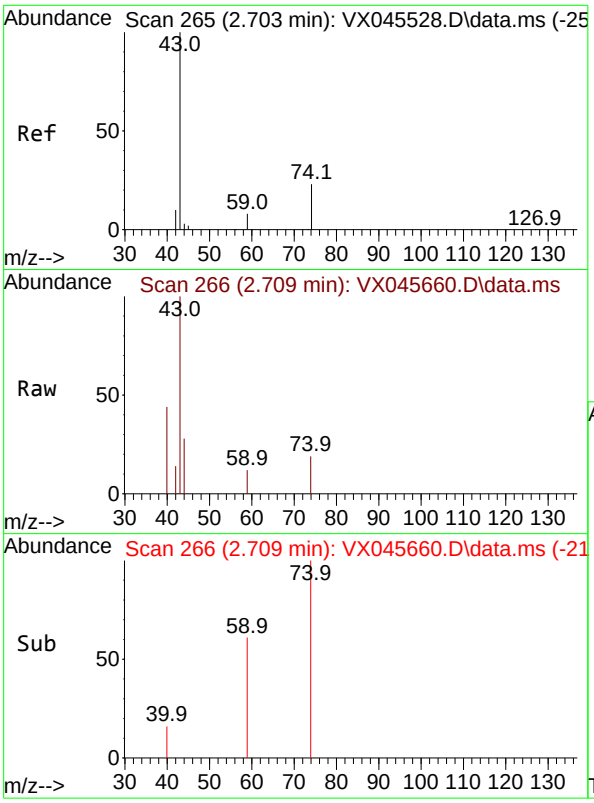


#16
Acetone
Concen: 57.161 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Tgt Ion: 43 Resp: 27771

Ion	Ratio	Lower	Upper
43	100		
58	25.6	22.3	33.5



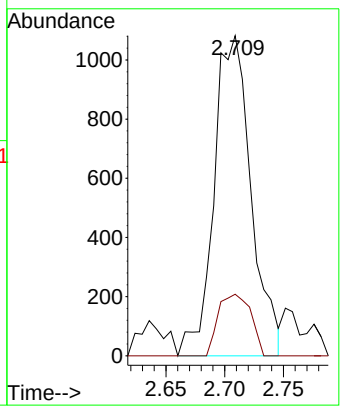


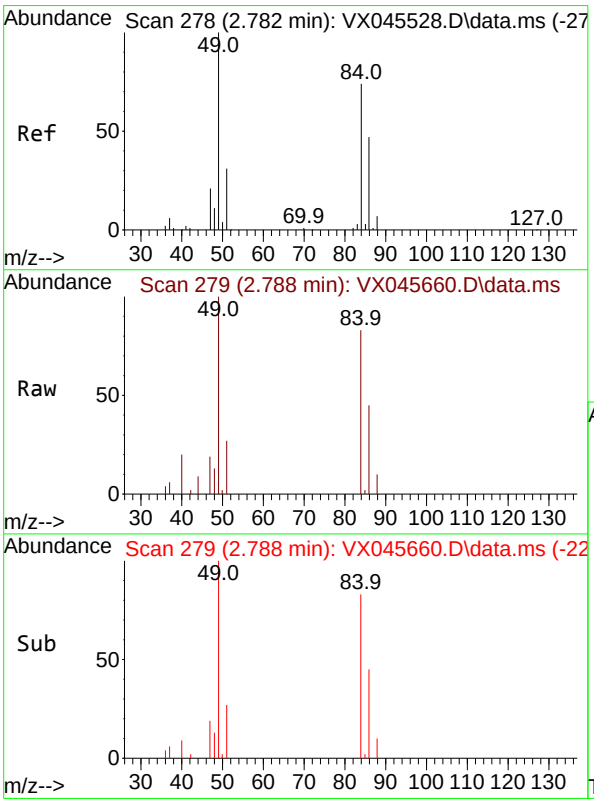
#18
Methyl Acetate
Concen: 2.122 ug/l
RT: 2.709 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Tgt Ion: 43 Resp: 2374

Ion	Ratio	Lower	Upper
43	100		
74	16.9	17.5	26.3#

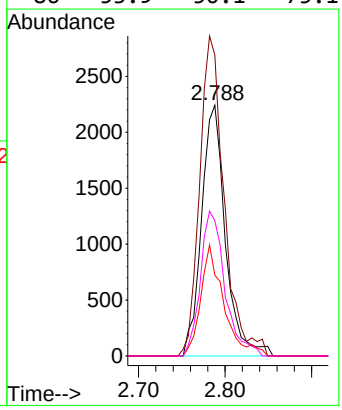


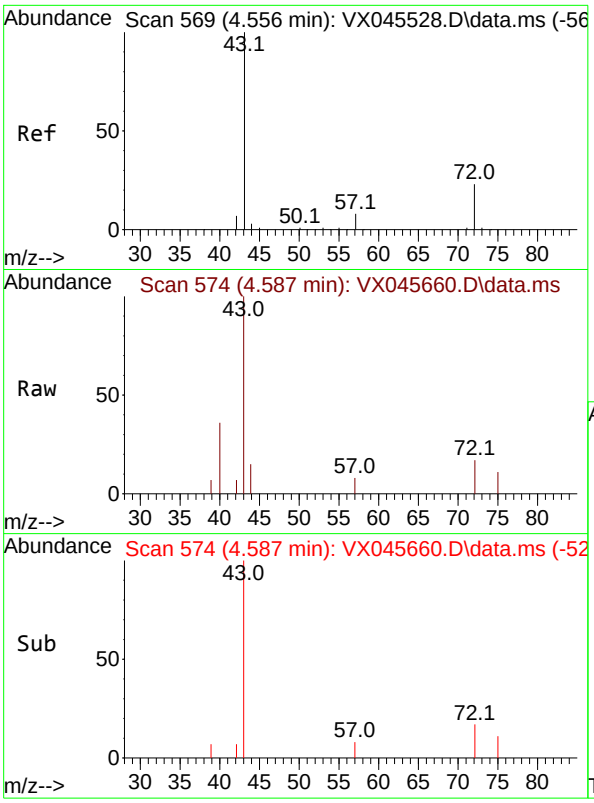


#20
Methylene Chloride
Concen: 4.721 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Tgt Ion: 84 Resp: 4294

Ion	Ratio	Lower	Upper
84	100		
49	120.1	107.5	161.3
51	32.2	33.0	49.6#
86	53.9	50.1	75.1



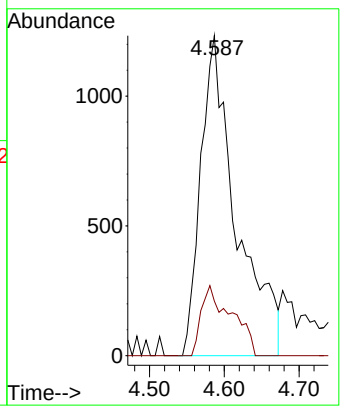


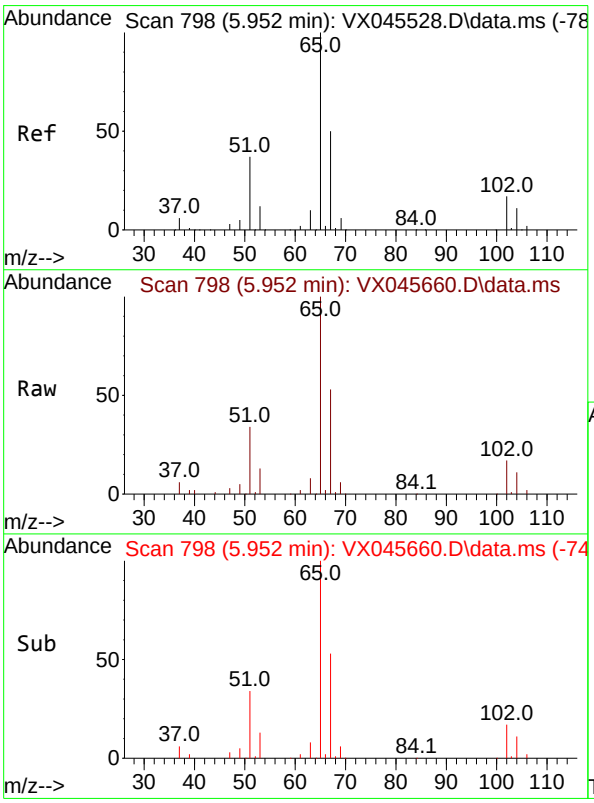
#25
2-Butanone
Concen: 5.727 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.031 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Tgt Ion: 43 Resp: 4073

Ion	Ratio	Lower	Upper
43	100		
72	17.0	18.6	28.0#

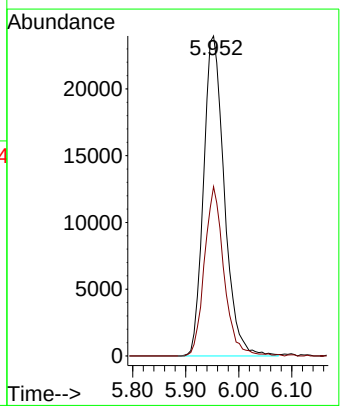


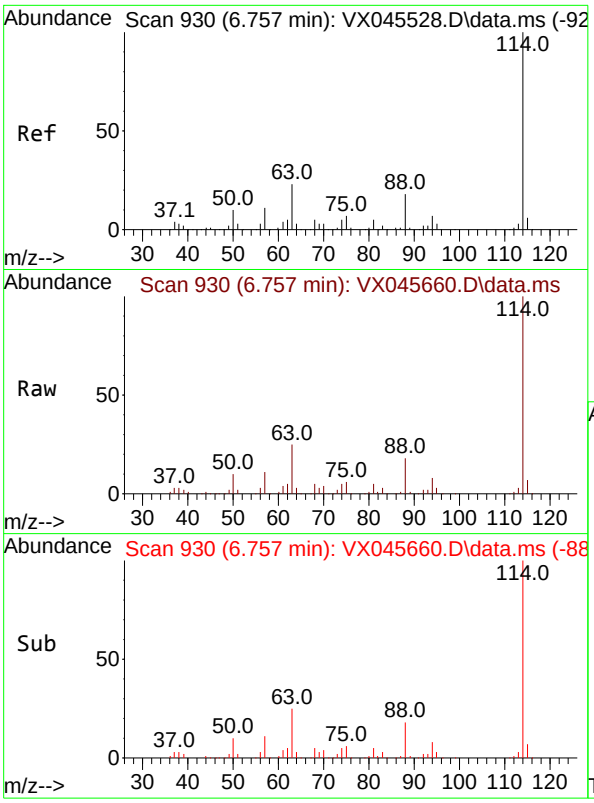


#33
1,2-Dichloroethane-d4
Concen: 55.100 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Tgt Ion: 65 Resp: 65192

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0



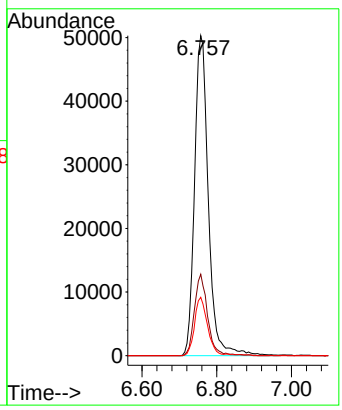


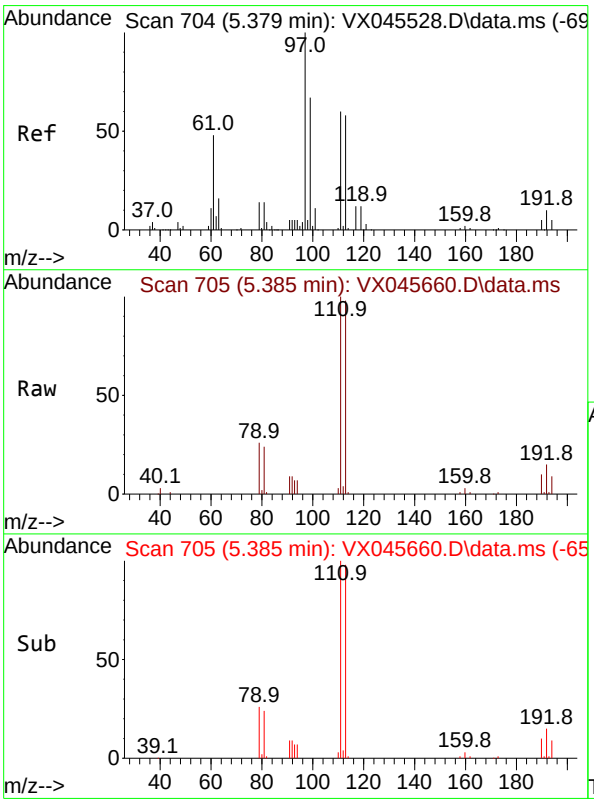
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Tgt Ion:114 Resp: 128925

Ion	Ratio	Lower	Upper
114	100		
63	25.5	0.0	46.8
88	18.2	0.0	35.4

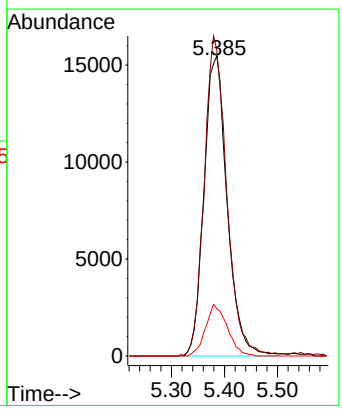


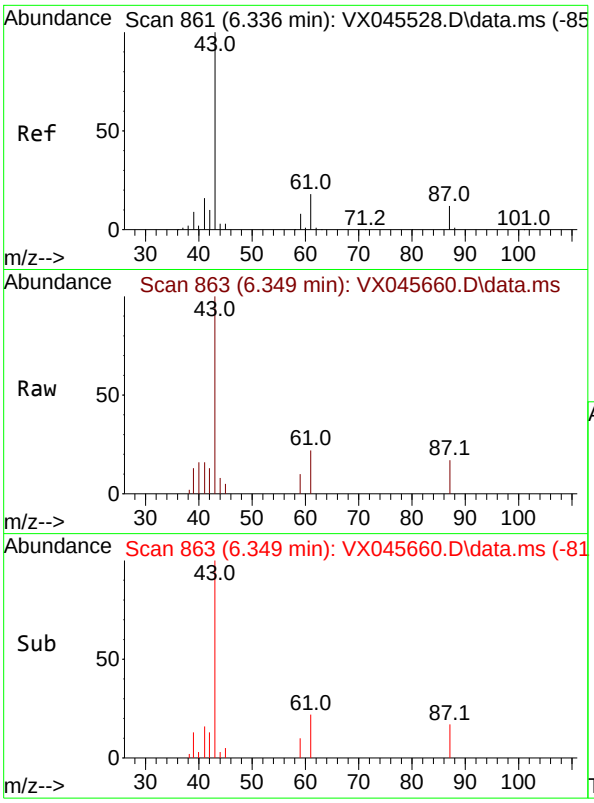


#35
Dibromofluoromethane
Concen: 51.361 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Tgt Ion:113 Resp: 46981

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	16.1	13.8	20.6



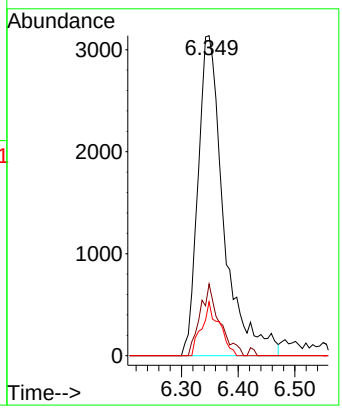


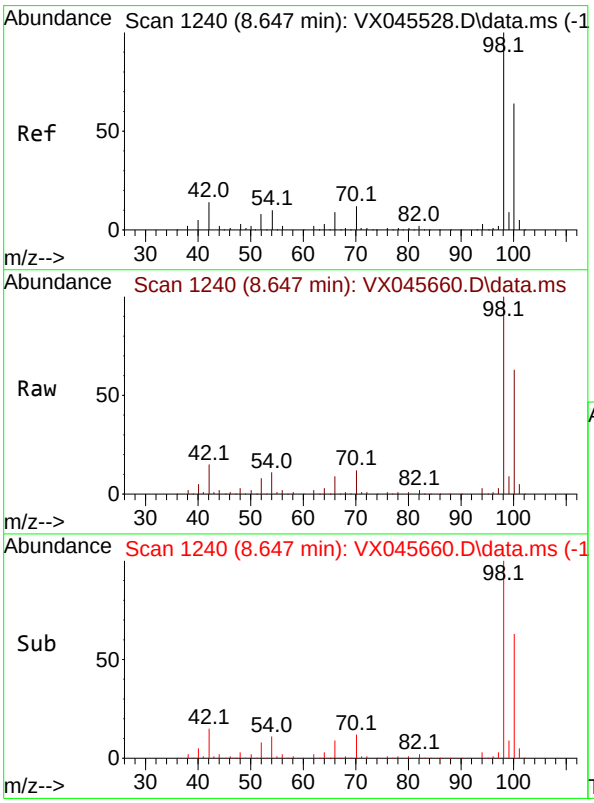
#43
Isopropyl Acetate
Concen: 4.191 ug/l
RT: 6.349 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Tgt Ion: 43 Resp: 9886

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.1	21.1
87	11.5	9.2	13.8

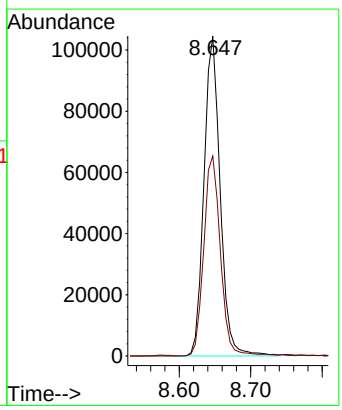


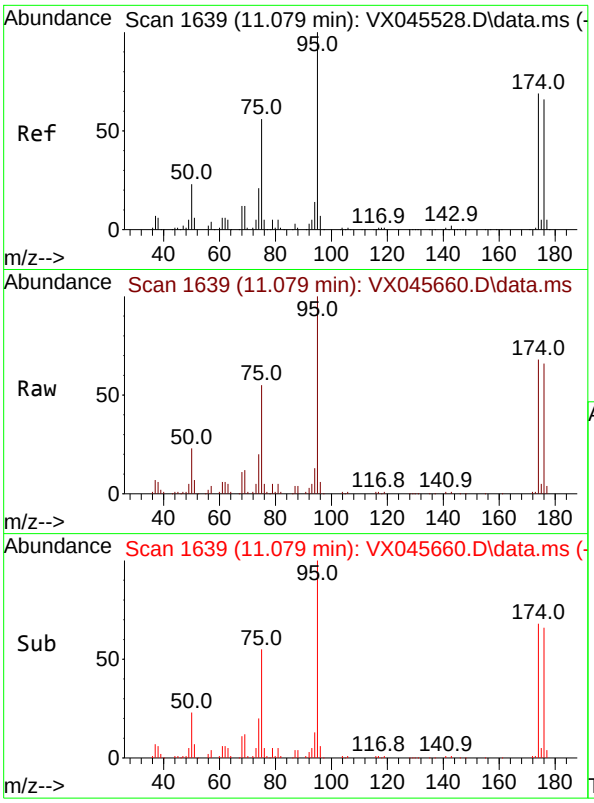


#50
Toluene-d8
Concen: 51.640 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Tgt Ion: 98 Resp: 164875

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.2	78.4



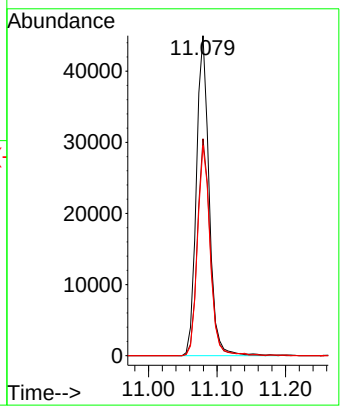


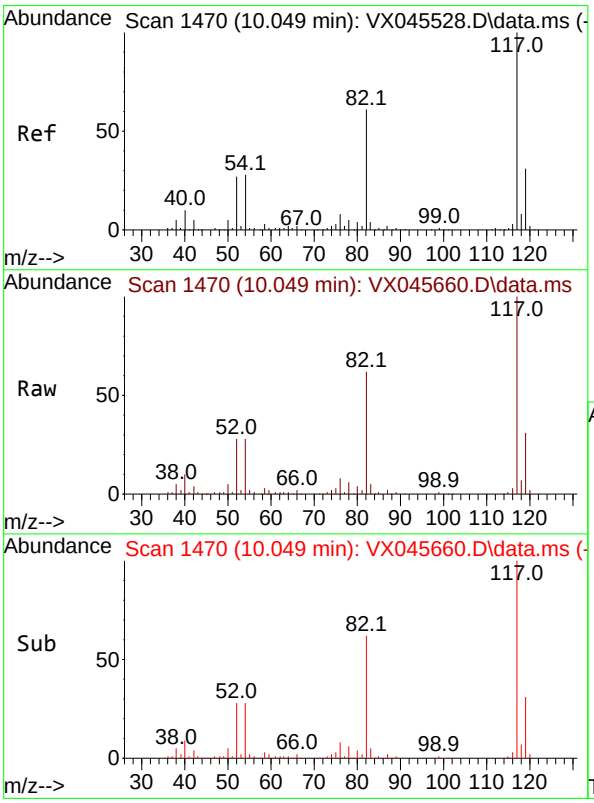
#62
4-Bromofluorobenzene
Concen: 50.067 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Tgt Ion: 95 Resp: 58226

Ion	Ratio	Lower	Upper
95	100		
174	67.4	0.0	135.8
176	65.2	0.0	131.4

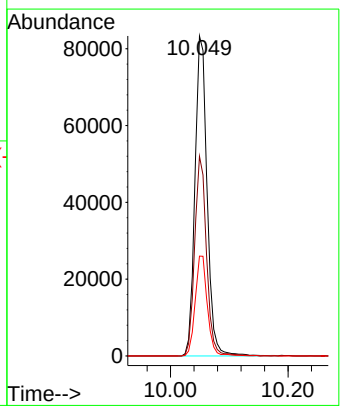


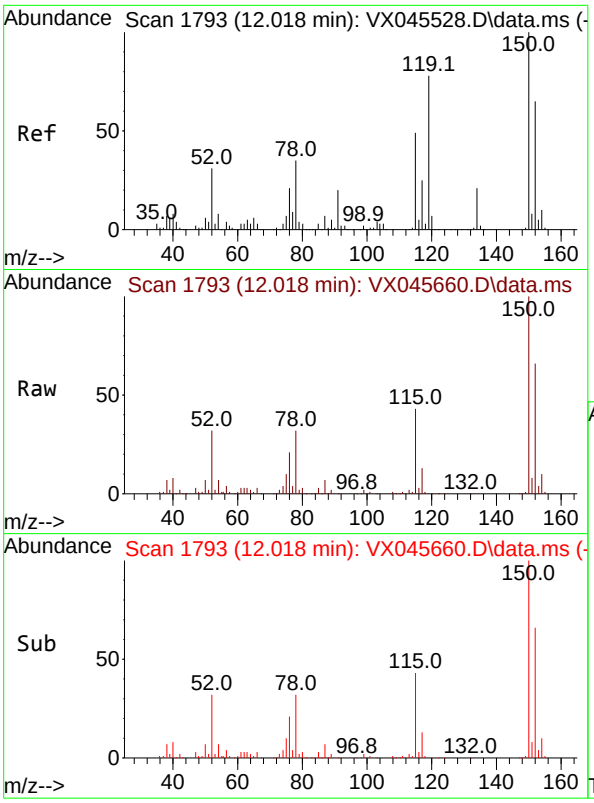


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Tgt Ion:117 Resp: 119671

Ion	Ratio	Lower	Upper
117	100		
82	62.4	49.2	73.8
119	31.2	25.1	37.7



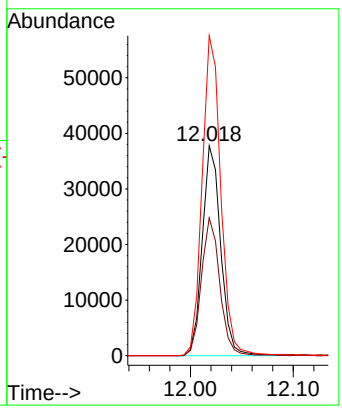


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045660.D
Acq: 08 Apr 2025 18:17

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB01

Tgt Ion:152 Resp: 47035

Ion	Ratio	Lower	Upper
152	100		
115	65.7	46.9	140.7
150	154.9	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045661.D
Acq On : 08 Apr 2025 18:40
Operator : JC/MD
Sample : Q1744-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Quant Time: Apr 09 01:44:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

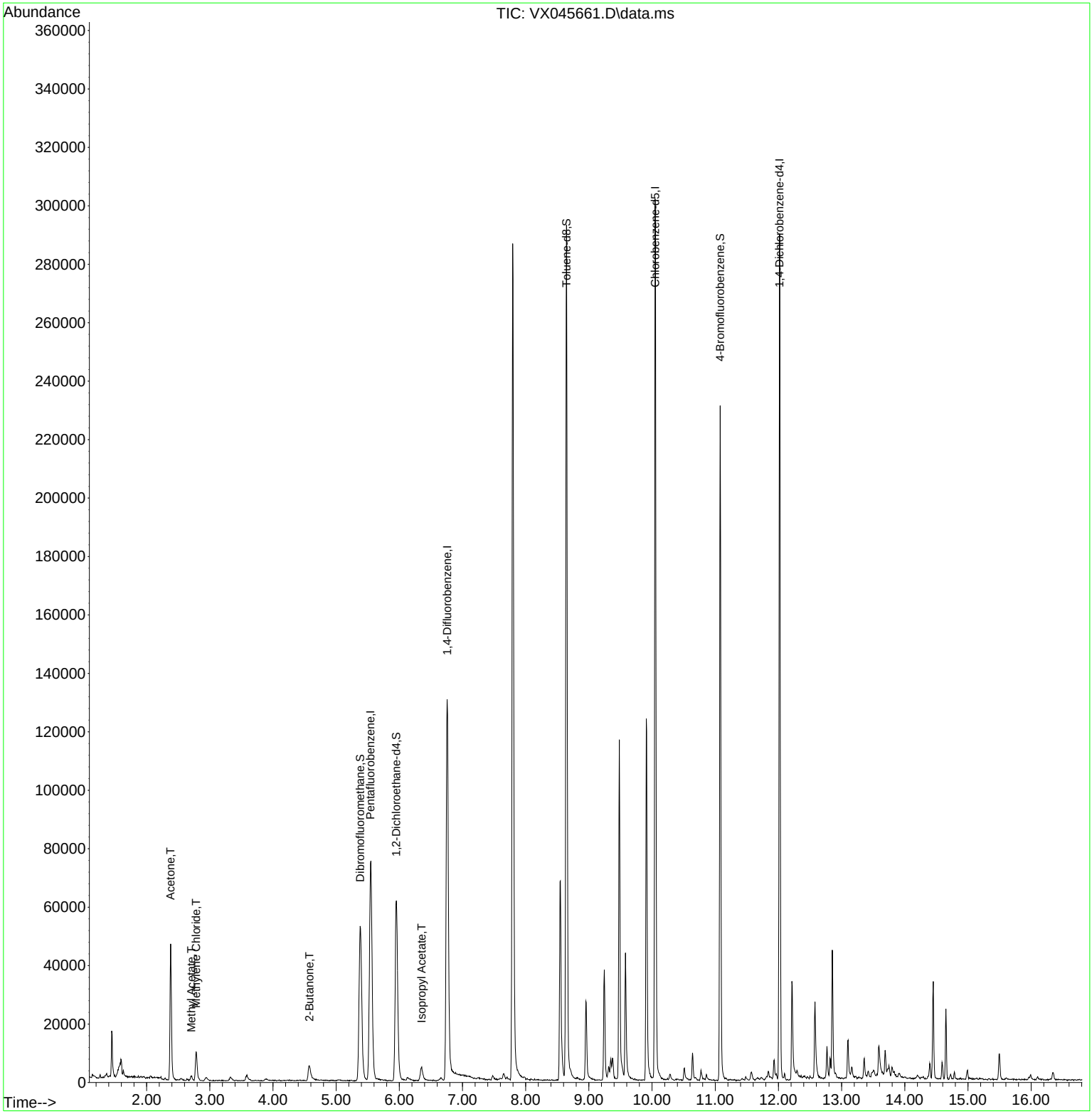
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	63944	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127369	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	121646	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51074	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63919	54.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.320%			
35) Dibromofluoromethane	5.379	113	46324	51.261	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.520%			
50) Toluene-d8	8.647	98	163599	51.867	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.740%			
62) 4-Bromofluorobenzene	11.079	95	60955	53.054	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.100%			
Target Compounds						Qvalue
16) Acetone	2.380	43	48261	100.507	ug/l	96
18) Methyl Acetate	2.709	43	2379	2.152	ug/l #	90
20) Methylene Chloride	2.782	84	4803	5.343	ug/l	97
25) 2-Butanone	4.574	43	10995	15.643	ug/l	93
43) Isopropyl Acetate	6.354	43	7289	3.128	ug/l	95

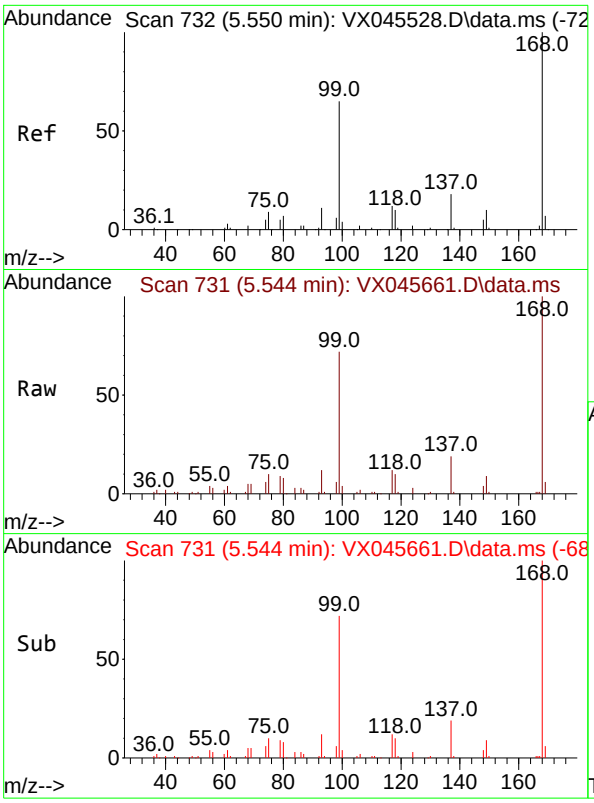
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045661.D
Acq On : 08 Apr 2025 18:40
Operator : JC/MD
Sample : Q1744-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Quant Time: Apr 09 01:44:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



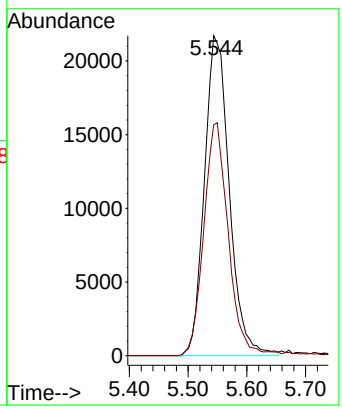


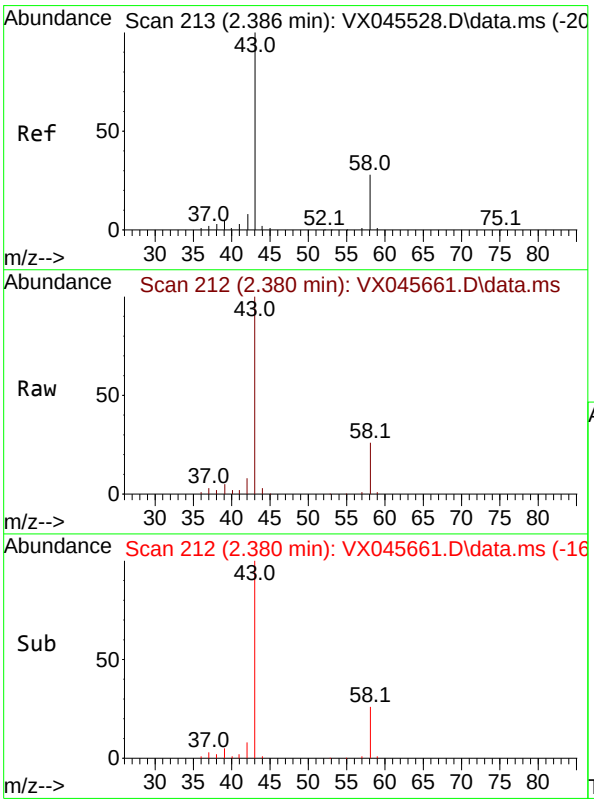
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Tgt Ion:168 Resp: 63944

Ion	Ratio	Lower	Upper
168	100		
99	72.2	52.3	78.5

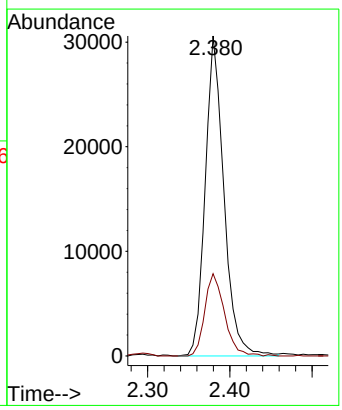


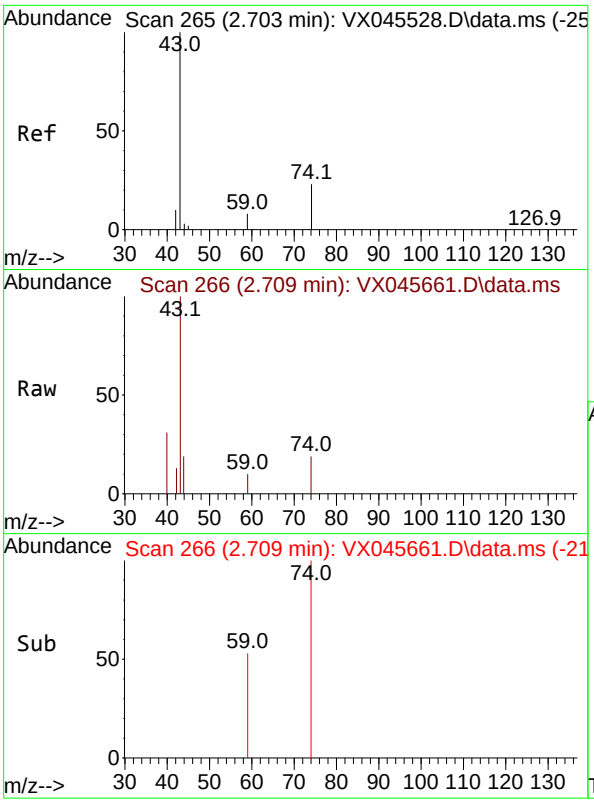


#16
Acetone
Concen: 100.507 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Tgt Ion: 43 Resp: 48261

Ion	Ratio	Lower	Upper
43	100		
58	25.7	22.3	33.5



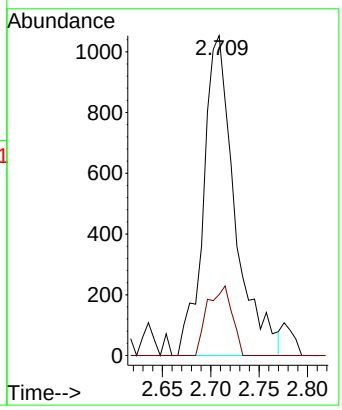


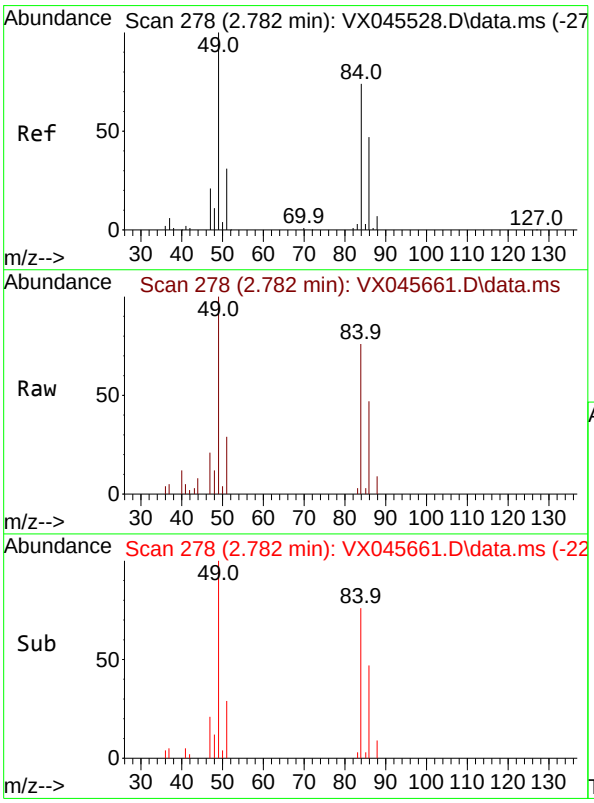
#18
Methyl Acetate
Concen: 2.152 ug/l
RT: 2.709 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Tgt Ion: 43 Resp: 2379

Ion	Ratio	Lower	Upper
43	100		
74	17.1	17.5	26.3#

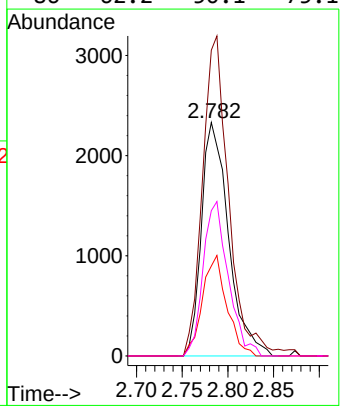


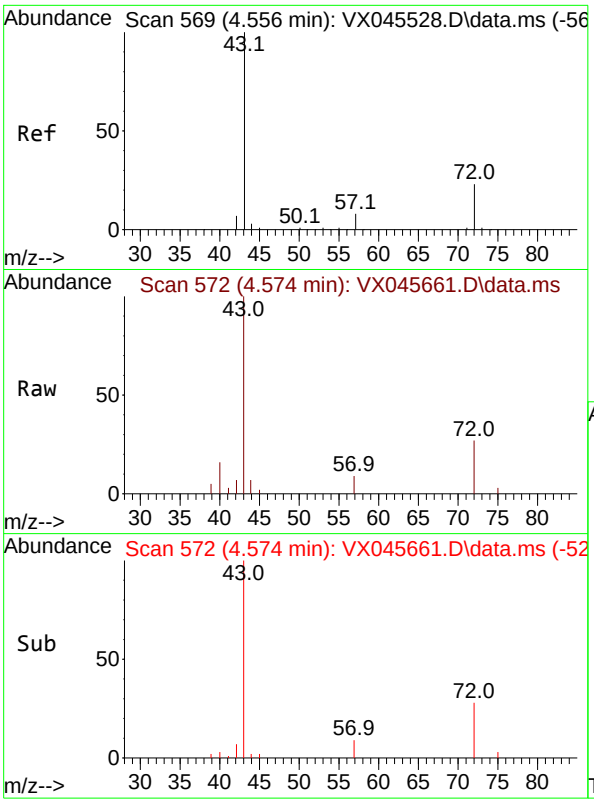


#20
Methylene Chloride
Concen: 5.343 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Tgt Ion: 84 Resp: 4803

Ion	Ratio	Lower	Upper
84	100		
49	131.0	107.5	161.3
51	38.5	33.0	49.6
86	62.2	50.1	75.1



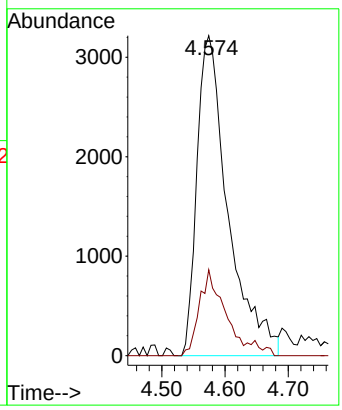


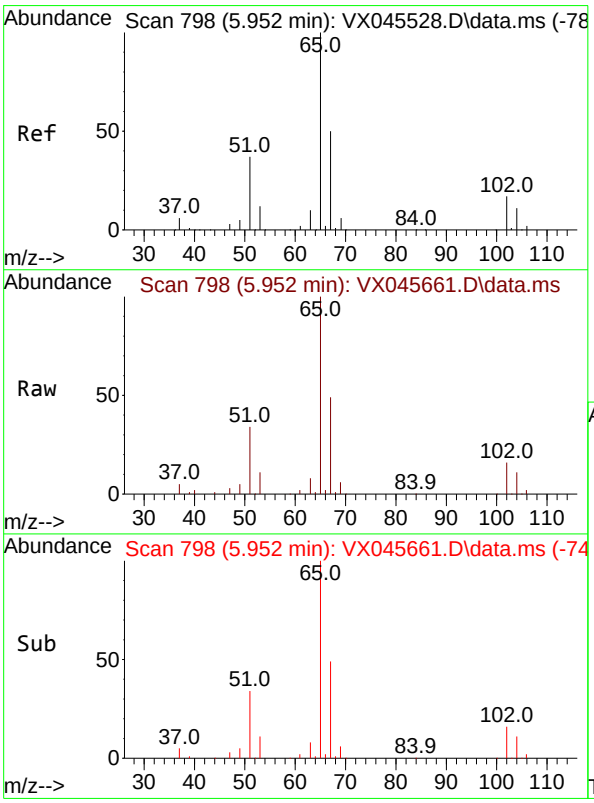
#25
2-Butanone
Concen: 15.643 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Tgt Ion: 43 Resp: 10995

Ion	Ratio	Lower	Upper
43	100		
72	26.8	18.6	28.0

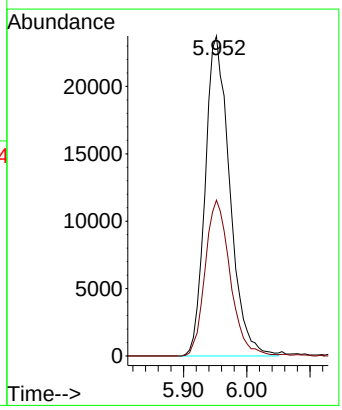


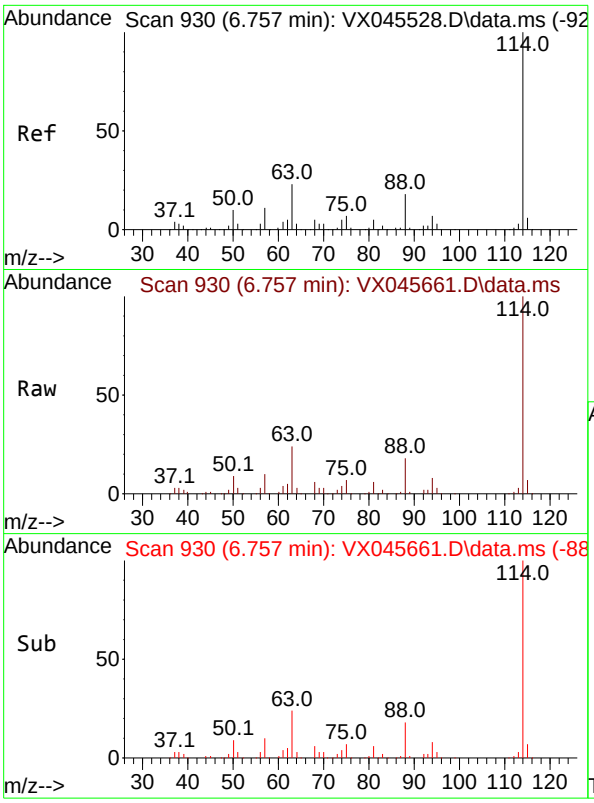


#33
1,2-Dichloroethane-d4
Concen: 54.661 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Tgt Ion: 65 Resp: 63919

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0



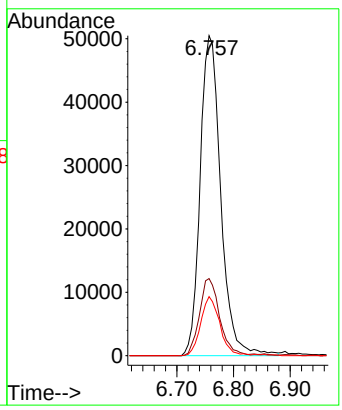


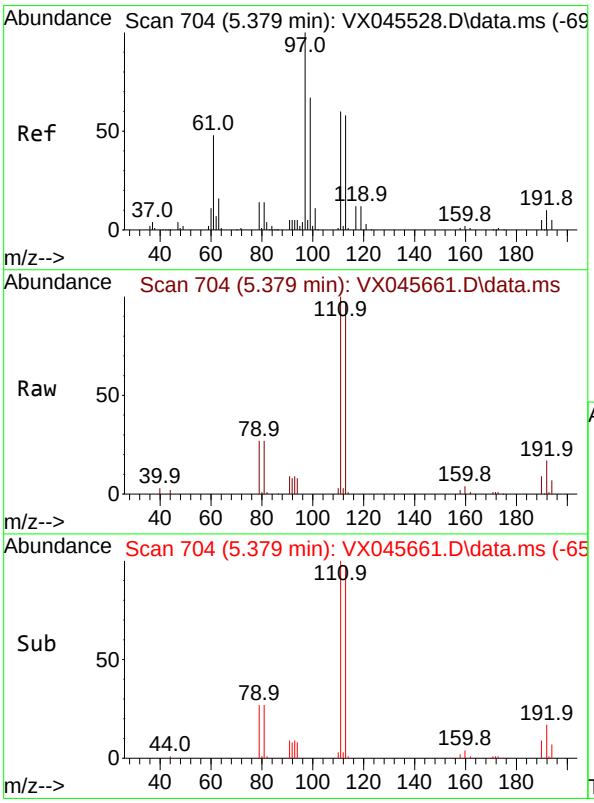
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Tgt Ion:114 Resp: 127369

Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	46.8
88	18.5	0.0	35.4

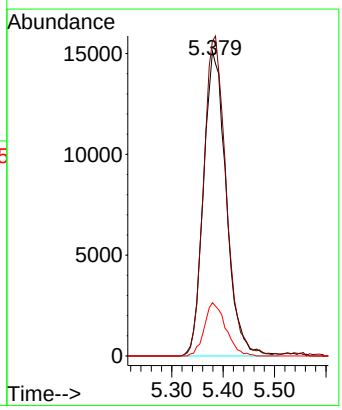


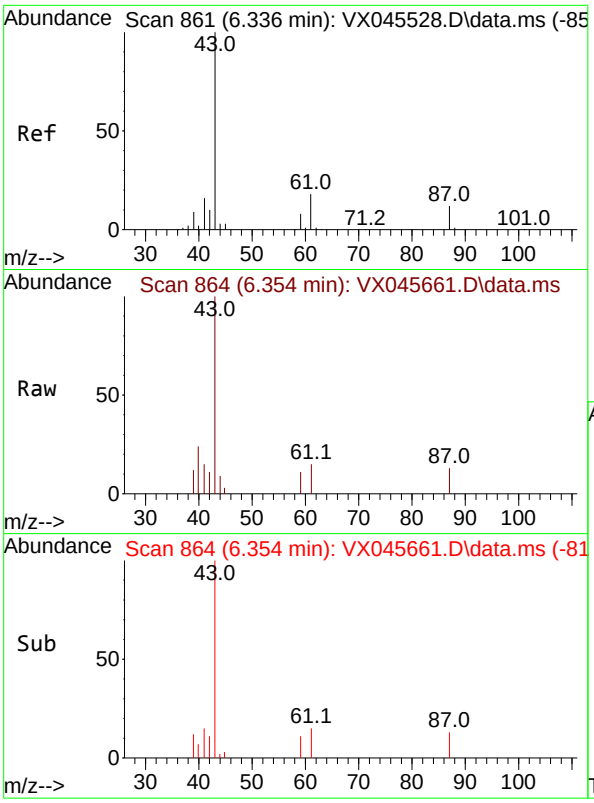


#35
Dibromofluoromethane
Concen: 51.261 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Tgt Ion:113 Resp: 46324

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	16.5	13.8	20.6



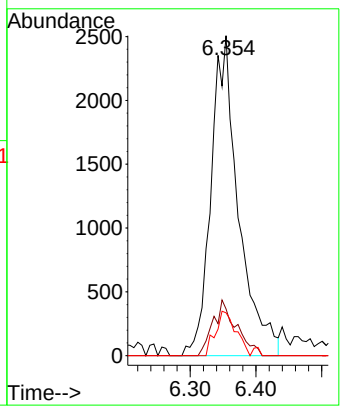


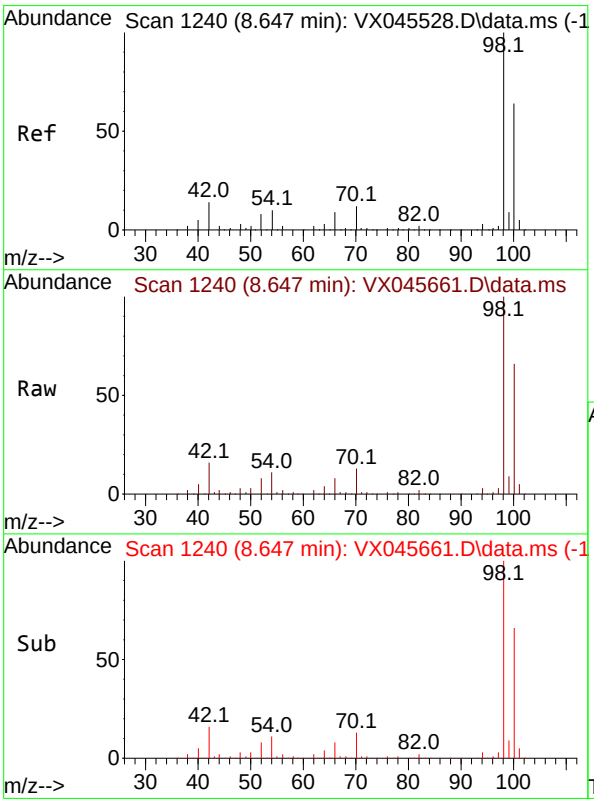
#43
Isopropyl Acetate
Concen: 3.128 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Tgt Ion: 43 Resp: 7289

Ion	Ratio	Lower	Upper
43	100		
61	14.9	14.1	21.1
87	10.3	9.2	13.8

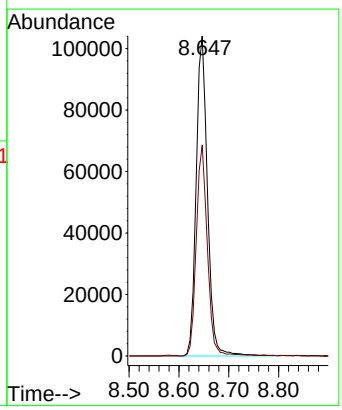


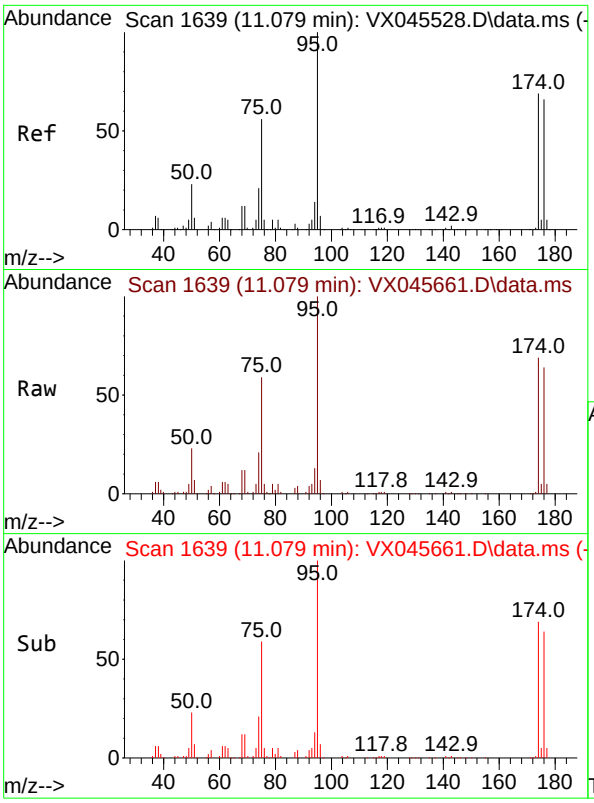


#50
Toluene-d8
Concen: 51.867 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Tgt Ion: 98 Resp: 163599

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.4



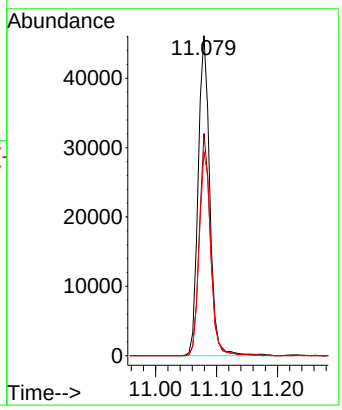


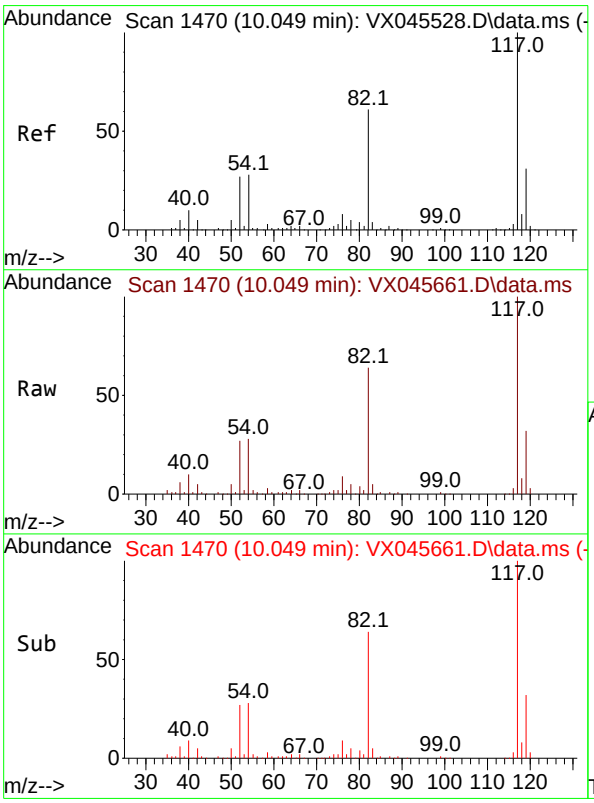
#62
4-Bromofluorobenzene
Concen: 53.054 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Tgt Ion: 95 Resp: 60955

Ion	Ratio	Lower	Upper
95	100		
174	66.6	0.0	135.8
176	64.5	0.0	131.4

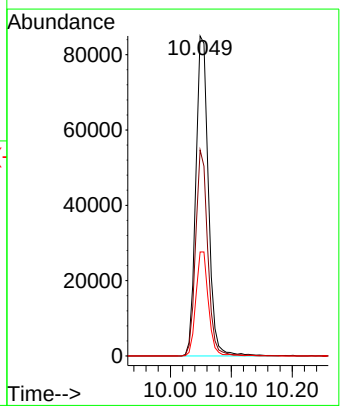


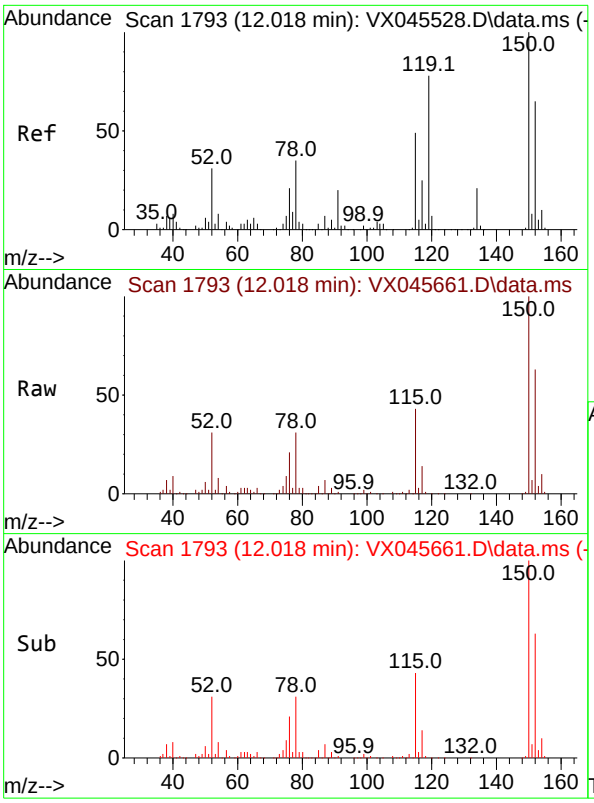


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Tgt Ion:117 Resp: 121646

Ion	Ratio	Lower	Upper
117	100		
82	64.3	49.2	73.8
119	32.5	25.1	37.7



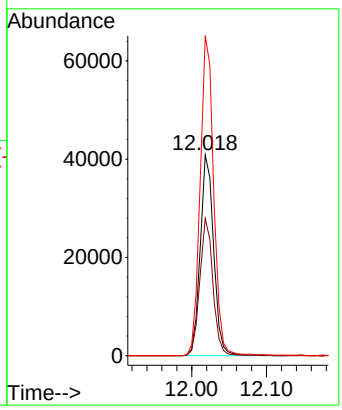


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045661.D
Acq: 08 Apr 2025 18:40

Instrument :
MSVOA_X
ClientSampleId :
B-158-SB02

Tgt Ion:152 Resp: 51074

Ion	Ratio	Lower	Upper
152	100		
115	66.8	46.9	140.7
150	160.3	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Time: Apr 09 01:31:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

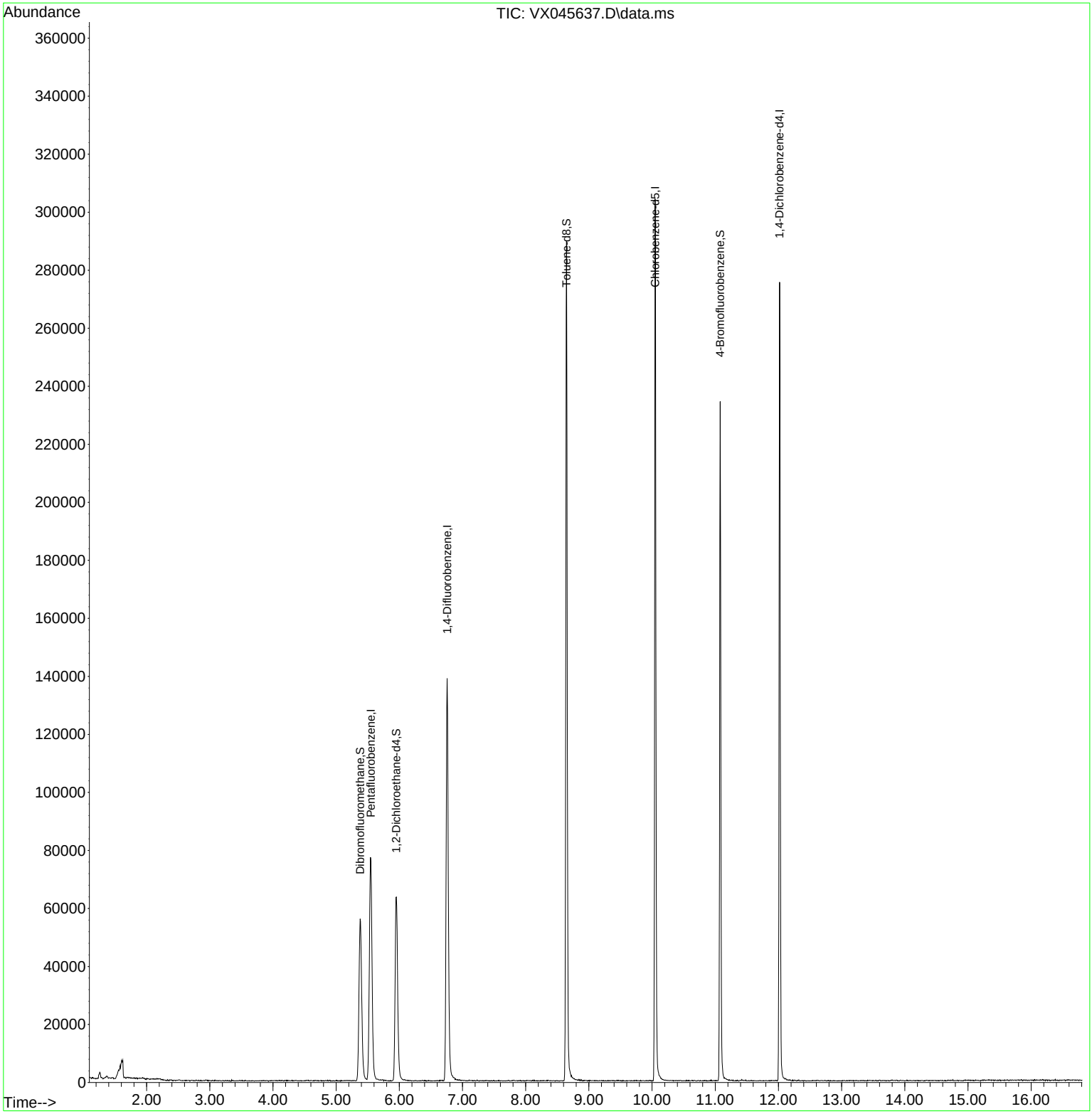
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	66539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129800	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	123174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51559	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	67529	55.496	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.000%			
35) Dibromofluoromethane	5.379	113	48500	52.664	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.320%			
50) Toluene-d8	8.646	98	165054	51.348	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.700%			
62) 4-Bromofluorobenzene	11.079	95	60782	51.913	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.820%			
Target Compounds						Qvalue

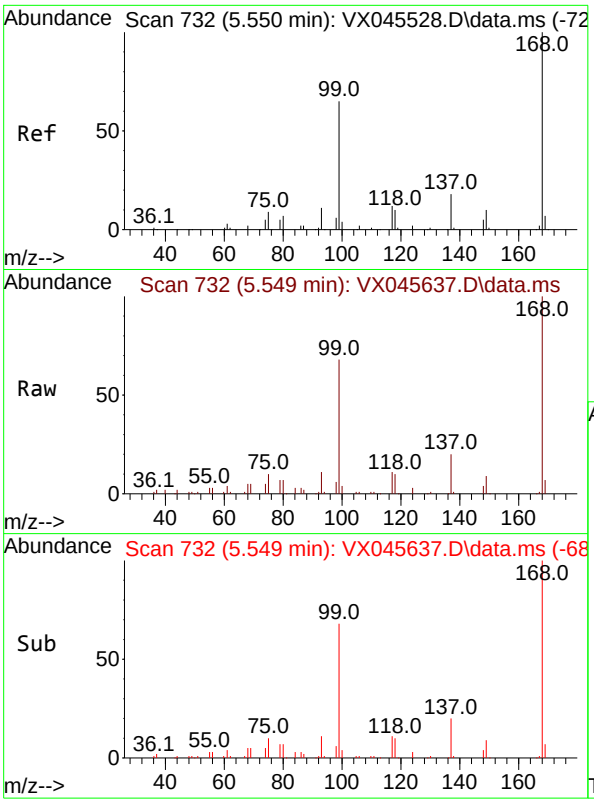
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045637.D
Acq On : 08 Apr 2025 09:12
Operator : JC/MD
Sample : VX0408WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Quant Time: Apr 09 01:31:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



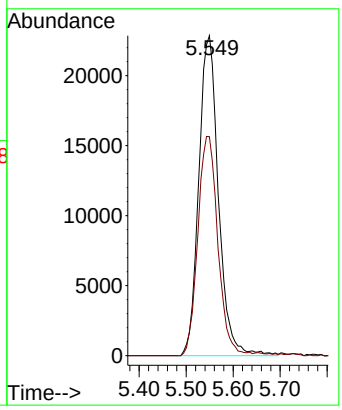


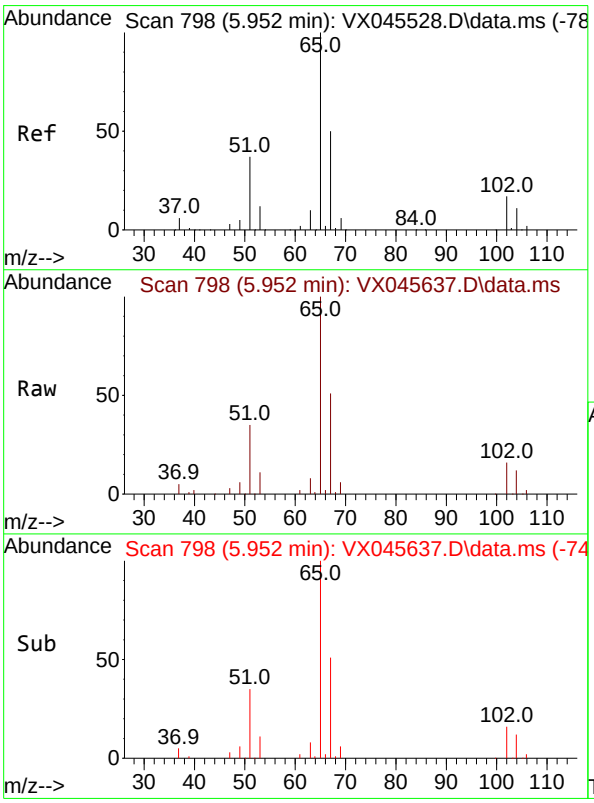
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion:168 Resp: 66539

Ion	Ratio	Lower	Upper
168	100		
99	68.5	52.3	78.5

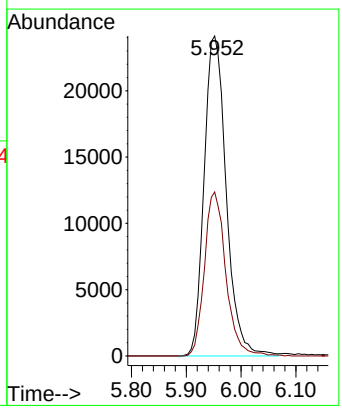


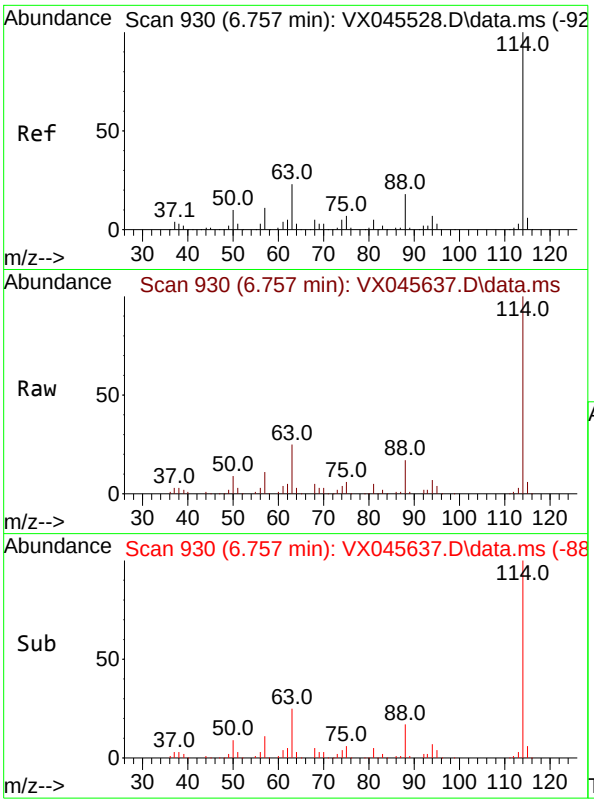


#33
1,2-Dichloroethane-d4
Concen: 55.496 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion: 65 Resp: 67529

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0



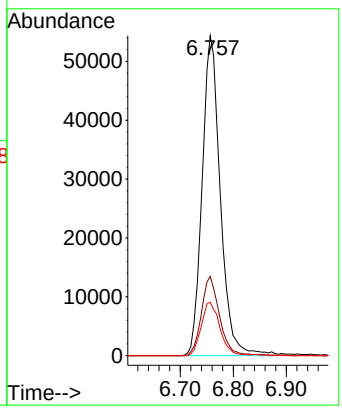


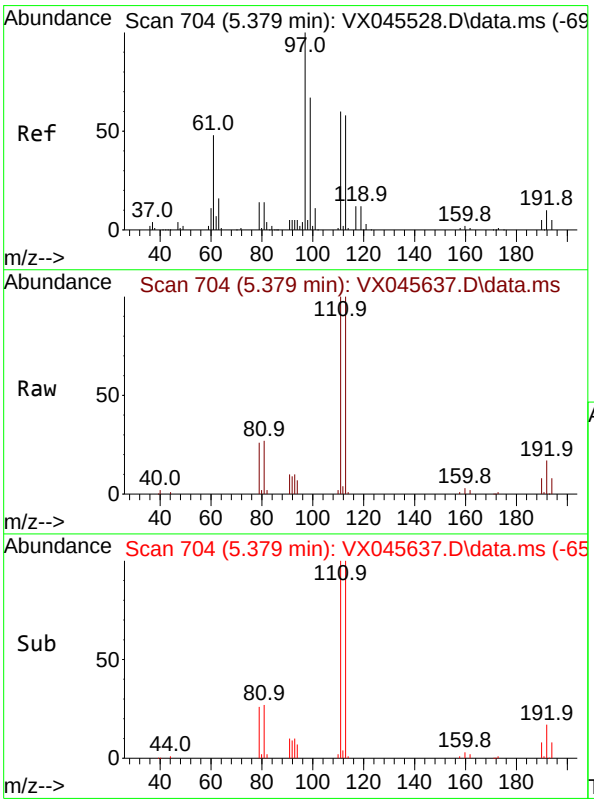
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion:114 Resp: 129800

Ion	Ratio	Lower	Upper
114	100		
63	24.8	0.0	46.8
88	16.7	0.0	35.4

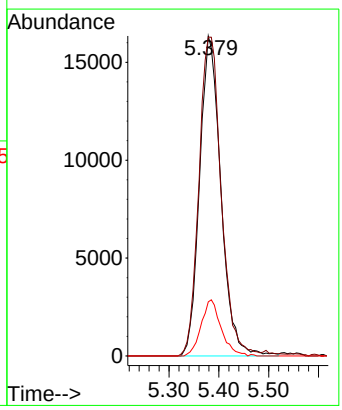


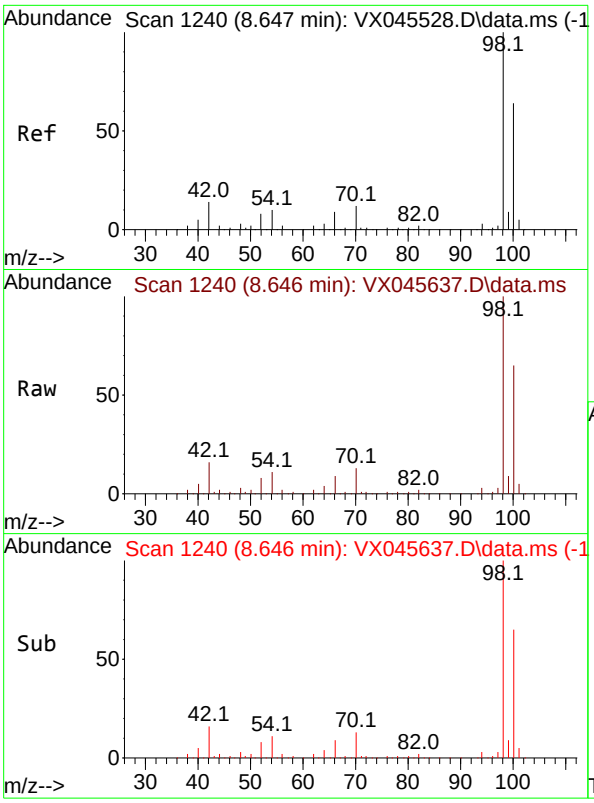


#35
Dibromofluoromethane
Concen: 52.664 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion:113 Resp: 48500

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	16.5	13.8	20.6



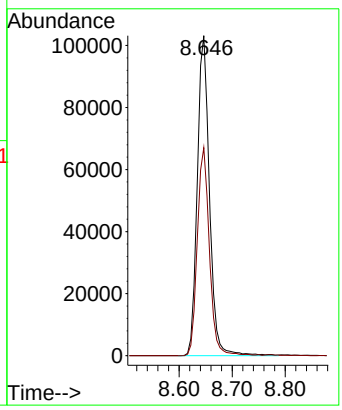


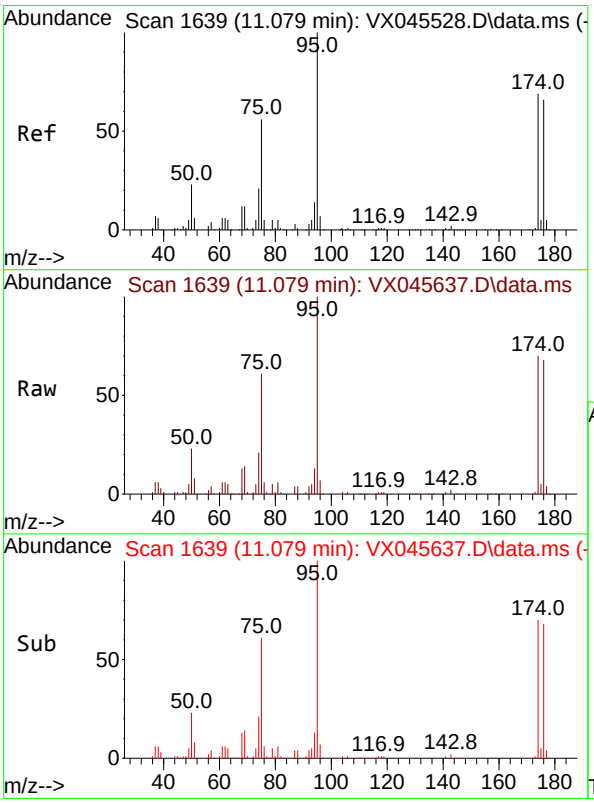
#50
Toluene-d8
Concen: 51.348 ug/l
RT: 8.646 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion: 98 Resp: 165054

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.4

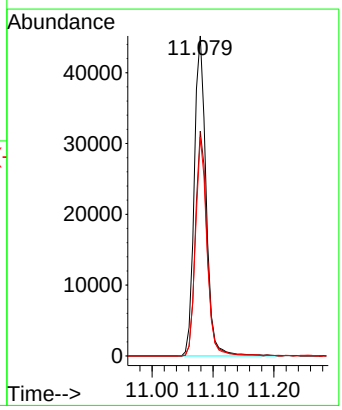


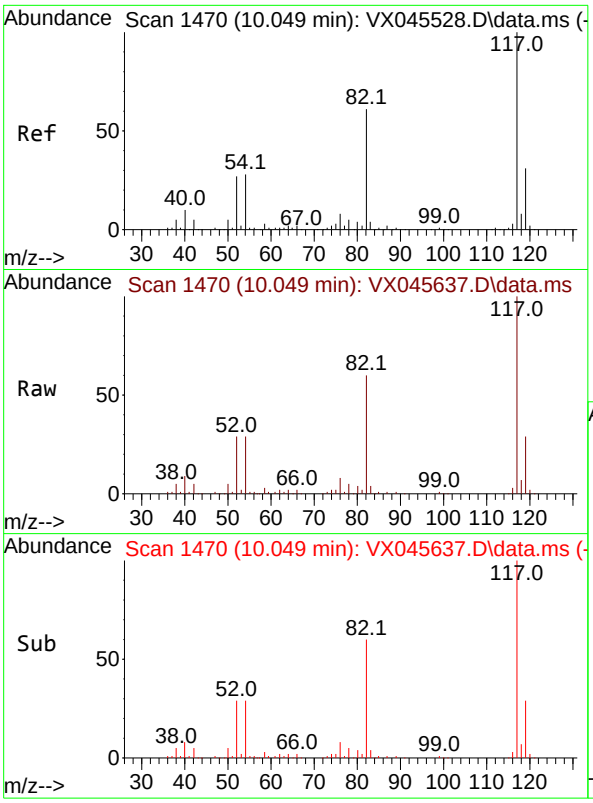


#62
4-Bromofluorobenzene
Concen: 51.913 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion: 95 Resp: 60782

Ion	Ratio	Lower	Upper
95	100		
174	69.3	0.0	135.8
176	66.0	0.0	131.4



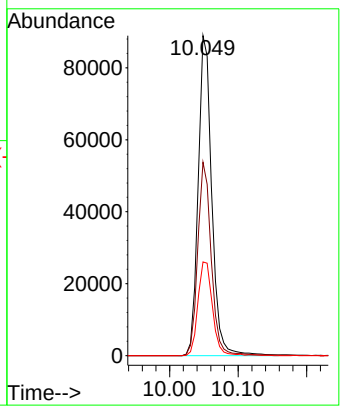


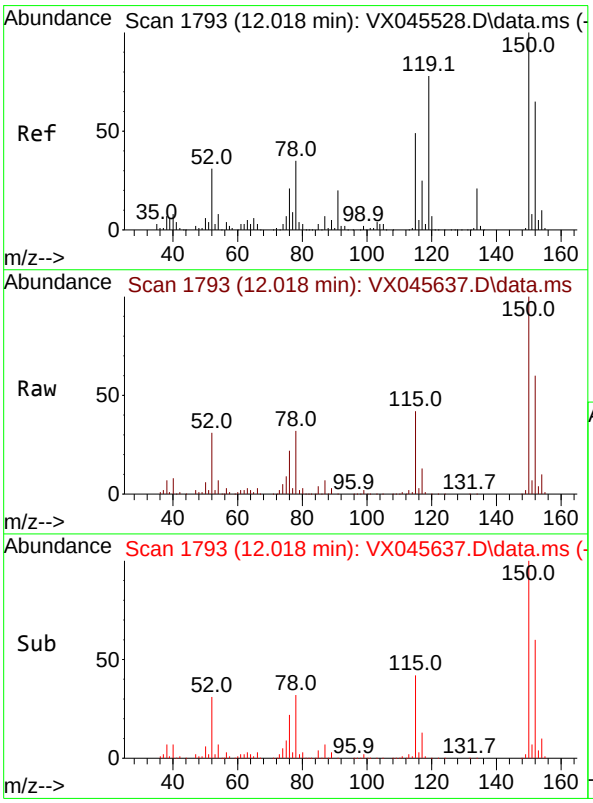
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX0408BWL01

Tgt Ion:117 Resp: 123174

Ion	Ratio	Lower	Upper
117	100		
82	60.4	49.2	73.8
119	29.3	25.1	37.7

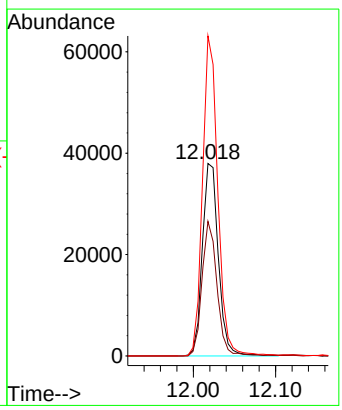




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045637.D
Acq: 08 Apr 2025 09:12

Tgt Ion:152 Resp: 51559

Ion	Ratio	Lower	Upper
152	100		
115	65.5	46.9	140.7
150	157.9	0.0	349.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	106087	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	183473	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162323	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	92530	47.695	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.380%			
35) Dibromofluoromethane	5.373	113	61662	47.369	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.740%			
50) Toluene-d8	8.641	98	216926	47.743	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.480%			
62) 4-Bromofluorobenzene	11.079	95	80611	48.707	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.420%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29914	18.855	ug/l	99
3) Chloromethane	1.307	50	27322	16.763	ug/l	98
4) Vinyl Chloride	1.374	62	25746	17.260	ug/l	100
5) Bromomethane	1.593	94	11482	16.235	ug/l	96
6) Chloroethane	1.666	64	14395	18.190	ug/l	95
7) Trichlorofluoromethane	1.874	101	40244	18.093	ug/l	97
8) Diethyl Ether	2.130	74	12439	16.657	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	23844	18.294	ug/l	97
10) Methyl Iodide	2.441	142	26769	16.466	ug/l	98
11) Tert butyl alcohol	2.971	59	21638	82.991	ug/l	97
12) 1,1-Dichloroethene	2.313	96	21916	17.208	ug/l	95
13) Acrolein	2.233	56	36556	101.816	ug/l	98
14) Allyl chloride	2.654	41	42463	17.572	ug/l	99
15) Acrylonitrile	3.062	53	70851	86.086	ug/l	99
16) Acetone	2.380	43	81335	102.097	ug/l	100
17) Carbon Disulfide	2.502	76	51049	16.229	ug/l	97
18) Methyl Acetate	2.703	43	34096	18.589	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	75408	16.926	ug/l	98
20) Methylene Chloride	2.782	84	25221	16.911	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	21749	16.716	ug/l	99
22) Diisopropyl ether	3.757	45	81207	17.060	ug/l	92
23) Vinyl Acetate	3.715	43	348840	84.821	ug/l	99
24) 1,1-Dichloroethane	3.599	63	45621	16.947	ug/l	99
25) 2-Butanone	4.550	43	107323	92.034	ug/l	98
26) 2,2-Dichloropropane	4.465	77	33325	19.160	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	26725	16.859	ug/l	98
28) Bromochloromethane	4.891	49	22375	17.200	ug/l	99
29) Tetrahydrofuran	5.001	42	62452	82.605	ug/l	98
30) Chloroform	5.080	83	48636	17.558	ug/l	98
31) Cyclohexane	5.464	56	39885	16.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	40095	17.106	ug/l	99
36) 1,1-Dichloropropene	5.684	75	31193	17.747	ug/l	99
37) Ethyl Acetate	4.709	43	38472	17.369	ug/l	99
38) Carbon Tetrachloride	5.666	117	35214	18.538	ug/l	98
39) Methylcyclohexane	7.373	83	40391	18.747	ug/l	99
40) Benzene	6.025	78	94288	17.565	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	21289	18.216	ug/l		99
42) 1,2-Dichloroethane	6.080	62	40303	18.178	ug/l		99
43) Isopropyl Acetate	6.336	43	57663	17.177	ug/l		99
44) Trichloroethene	7.117	130	22414	17.568	ug/l		93
45) 1,2-Dichloropropane	7.421	63	23615	17.632	ug/l		100
46) Dibromomethane	7.574	93	18014	17.521	ug/l		99
47) Bromodichloromethane	7.818	83	37430	18.230	ug/l		99
48) Methyl methacrylate	7.690	41	30543	17.621	ug/l		99
49) 1,4-Dioxane	7.659	88	11370	362.562	ug/l		98
51) 4-Methyl-2-Pentanone	8.568	43	202243	90.877	ug/l		99
52) Toluene	8.714	92	56640	17.438	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	29965	16.770	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	34907	18.091	ug/l		92
55) 1,1,2-Trichloroethane	9.147	97	23346	18.037	ug/l		96
56) Ethyl methacrylate	9.116	69	34568	17.257	ug/l		99
57) 1,3-Dichloropropane	9.305	76	40917	18.154	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	85635	84.508	ug/l		100
59) 2-Hexanone	9.427	43	149739	90.861	ug/l		99
60) Dibromochloromethane	9.519	129	25744	18.244	ug/l		99
61) 1,2-Dibromoethane	9.604	107	23565	17.985	ug/l		99
64) Tetrachloroethene	9.269	164	20355	17.761	ug/l		99
65) Chlorobenzene	10.073	112	62155	17.919	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	20950	17.397	ug/l		98
67) Ethyl Benzene	10.189	91	111490	17.947	ug/l		100
68) m/p-Xylenes	10.299	106	83112	36.784	ug/l		100
69) o-Xylene	10.640	106	40448	18.172	ug/l		100
70) Styrene	10.653	104	67373	18.340	ug/l		99
71) Bromoform	10.799	173	15756	17.523	ug/l	#	99
73) Isopropylbenzene	10.957	105	107684	17.994	ug/l		100
74) N-amyl acetate	10.842	43	47535	16.605	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	35893	17.074	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	31468m	17.268	ug/l		
77) Bromobenzene	11.195	156	24173	17.482	ug/l		98
78) n-propylbenzene	11.299	91	124284	18.031	ug/l		99
79) 2-Chlorotoluene	11.360	91	78306	17.770	ug/l		98
80) 1,3,5-Trimethylbenzene	11.445	105	91086	18.407	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	8668	16.143	ug/l		92
82) 4-Chlorotoluene	11.451	91	88617	18.037	ug/l		99
83) tert-Butylbenzene	11.713	119	89150	18.197	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	90268	18.174	ug/l		100
85) sec-Butylbenzene	11.890	105	112118	18.632	ug/l		100
86) p-Isopropyltoluene	12.006	119	91838	18.512	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	45298	17.997	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	44628	17.490	ug/l		98
89) n-Butylbenzene	12.329	91	79354	18.446	ug/l		100
90) Hexachloroethane	12.536	117	15692	18.405	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	44340	17.719	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7797	17.735	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	23843	17.118	ug/l		98
94) Hexachlorobutadiene	13.725	225	11570	19.276	ug/l		98
95) Naphthalene	13.774	128	86898	16.764	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	24888	17.064	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

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

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

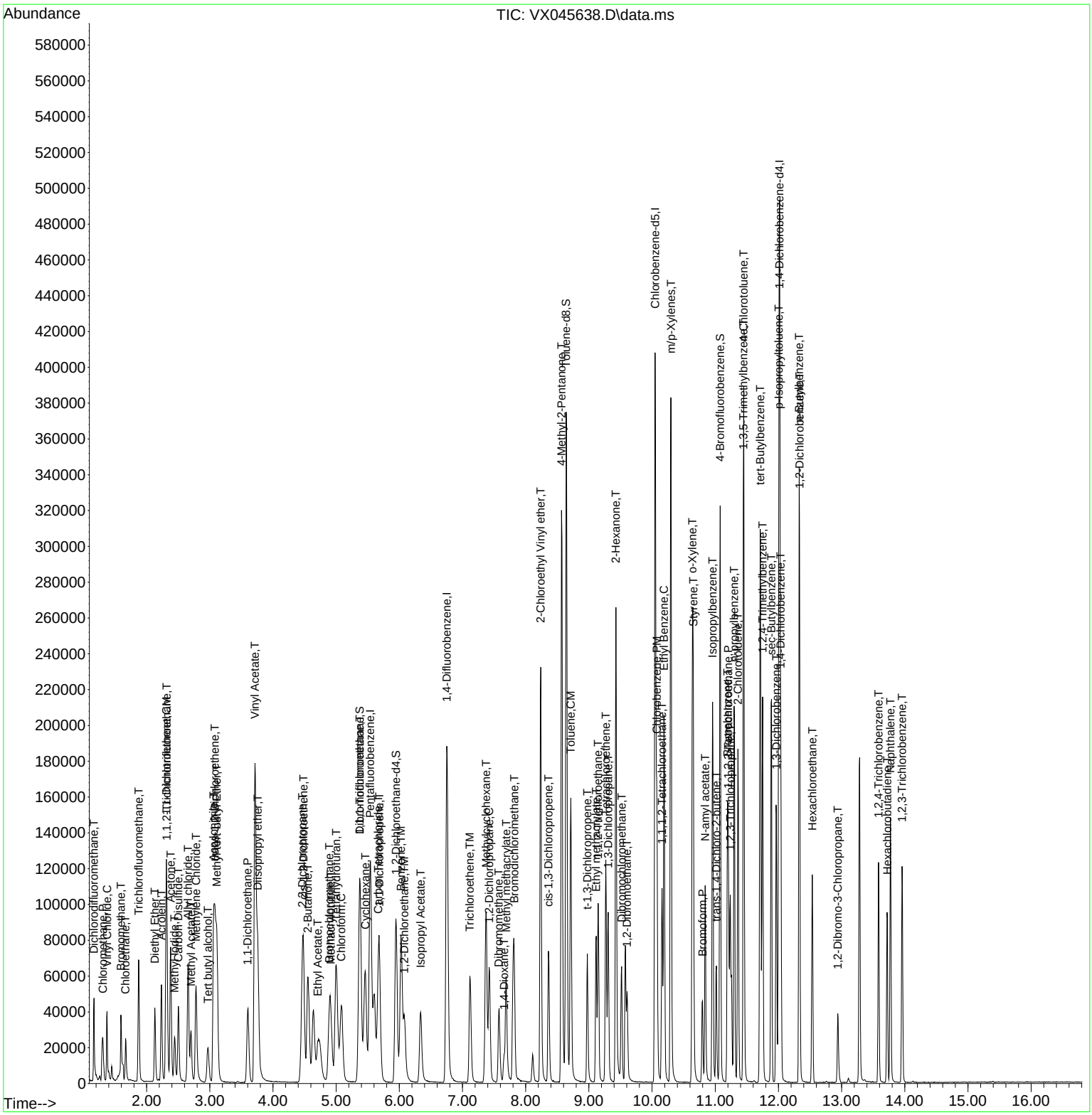
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045638.D
Acq On : 08 Apr 2025 09:43
Operator : JC/MD
Sample : VX0408WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 09 01:31:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045639.D
Acq On : 08 Apr 2025 10:08
Operator : JC/MD
Sample : VX0408WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 09 01:33:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	81435	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	140832	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	127042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59865	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	71765	48.189	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.380%		
35) Dibromofluoromethane	5.379	113	47663	47.701	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.400%		
50) Toluene-d8	8.641	98	166388	47.708	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.420%		
62) 4-Bromofluorobenzene	11.079	95	63046	49.628	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.260%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	24197	19.868	ug/l	99
3) Chloromethane	1.300	50	22755	18.187	ug/l	98
4) Vinyl Chloride	1.374	62	20130	17.581	ug/l	97
5) Bromomethane	1.593	94	9715	17.894	ug/l	96
6) Chloroethane	1.672	64	11621	19.130	ug/l	96
7) Trichlorofluoromethane	1.873	101	32417	18.986	ug/l	99
8) Diethyl Ether	2.130	74	10726	18.711	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	19634	19.624	ug/l	96
10) Methyl Iodide	2.447	142	22218	17.804	ug/l	98
11) Tert butyl alcohol	2.965	59	19902	99.440	ug/l	100
12) 1,1-Dichloroethene	2.312	96	17655	18.059	ug/l	98
13) Acrolein	2.233	56	29070	105.476	ug/l	99
14) Allyl chloride	2.660	41	34925	18.828	ug/l	98
15) Acrylonitrile	3.062	53	61424	97.225	ug/l	99
16) Acetone	2.380	43	59344	97.043	ug/l	97
17) Carbon Disulfide	2.501	76	40083	16.600	ug/l	100
18) Methyl Acetate	2.703	43	29992	21.302	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	64755	18.935	ug/l	99
20) Methylene Chloride	2.782	84	21126	18.453	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	17987	18.009	ug/l	96
22) Diisopropyl ether	3.757	45	67549	18.487	ug/l #	84
23) Vinyl Acetate	3.715	43	300705	95.251	ug/l	99
24) 1,1-Dichloroethane	3.605	63	38247	18.509	ug/l	97
25) 2-Butanone	4.556	43	87606	97.868	ug/l	99
26) 2,2-Dichloropropane	4.471	77	27853	20.862	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	22141	18.196	ug/l	96
28) Bromochloromethane	4.891	49	19583	19.610	ug/l	98
29) Tetrahydrofuran	5.007	42	55490	95.615	ug/l	100
30) Chloroform	5.086	83	40285	18.946	ug/l	94
31) Cyclohexane	5.464	56	33292	18.224	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	32862	18.265	ug/l	98
36) 1,1-Dichloropropene	5.690	75	25243	18.711	ug/l	98
37) Ethyl Acetate	4.708	43	32466	19.096	ug/l	99
38) Carbon Tetrachloride	5.665	117	28449	19.511	ug/l	97
39) Methylcyclohexane	7.372	83	31923	19.303	ug/l	98
40) Benzene	6.031	78	78305	19.004	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045639.D
Acq On : 08 Apr 2025 10:08
Operator : JC/MD
Sample : VX0408WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 09 01:33:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	18472	20.592	ug/l		98
42) 1,2-Dichloroethane	6.080	62	34412	20.221	ug/l		100
43) Isopropyl Acetate	6.336	43	50281	19.513	ug/l		100
44) Trichloroethene	7.116	130	18204	18.588	ug/l		96
45) 1,2-Dichloropropane	7.427	63	19592	19.057	ug/l		96
46) Dibromomethane	7.580	93	15576	19.737	ug/l		100
47) Bromodichloromethane	7.818	83	31240	19.822	ug/l		94
48) Methyl methacrylate	7.690	41	25731	19.340	ug/l		99
49) 1,4-Dioxane	7.659	88	10279	427.015	ug/l		98
51) 4-Methyl-2-Pentanone	8.567	43	177718	104.036	ug/l		99
52) Toluene	8.714	92	47501	19.052	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	25046	18.058	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	29588	19.978	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	19608	19.736	ug/l		99
56) Ethyl methacrylate	9.116	69	29788	19.373	ug/l		98
57) 1,3-Dichloropropane	9.305	76	34749	20.085	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	69213	88.983	ug/l		100
59) 2-Hexanone	9.427	43	131955	104.313	ug/l		99
60) Dibromochloromethane	9.518	129	21426	19.782	ug/l		100
61) 1,2-Dibromoethane	9.604	107	20300	20.184	ug/l		99
64) Tetrachloroethene	9.268	164	16439	18.328	ug/l		97
65) Chlorobenzene	10.073	112	51112	18.828	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	17578	18.651	ug/l		100
67) Ethyl Benzene	10.189	91	90492	18.612	ug/l		100
68) m/p-Xylenes	10.299	106	66506	37.609	ug/l		96
69) o-Xylene	10.640	106	33206	19.062	ug/l		98
70) Styrene	10.652	104	55541	19.318	ug/l		99
71) Bromoform	10.799	173	13518	19.209	ug/l	#	97
73) Isopropylbenzene	10.957	105	88110	18.374	ug/l		99
74) N-amyl acetate	10.841	43	41920	18.275	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	31935	18.958	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	27398m	18.763	ug/l		
77) Bromobenzene	11.195	156	20769	18.745	ug/l		97
78) n-propylbenzene	11.299	91	101268	18.335	ug/l		100
79) 2-Chlorotoluene	11.360	91	65588	18.575	ug/l		98
80) 1,3,5-Trimethylbenzene	11.451	105	75087	18.936	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	7865	18.280	ug/l		99
82) 4-Chlorotoluene	11.451	91	72539	18.425	ug/l		97
83) tert-Butylbenzene	11.713	119	73526	18.729	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	75977	19.090	ug/l		99
85) sec-Butylbenzene	11.890	105	92802	19.247	ug/l		100
86) p-Isopropyltoluene	12.006	119	74468	18.733	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	37322	18.505	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	36814	18.005	ug/l		94
89) n-Butylbenzene	12.329	91	63899	18.537	ug/l		99
90) Hexachloroethane	12.536	117	12967	18.981	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	38349	19.125	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	6808	19.325	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	20197	18.096	ug/l		97
94) Hexachlorobutadiene	13.725	225	9208	19.145	ug/l		98
95) Naphthalene	13.774	128	75849	18.261	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	20892	17.876	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
Data File : VX045639.D
Acq On : 08 Apr 2025 10:08
Operator : JC/MD
Sample : VX0408WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 09 01:33:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025

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

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

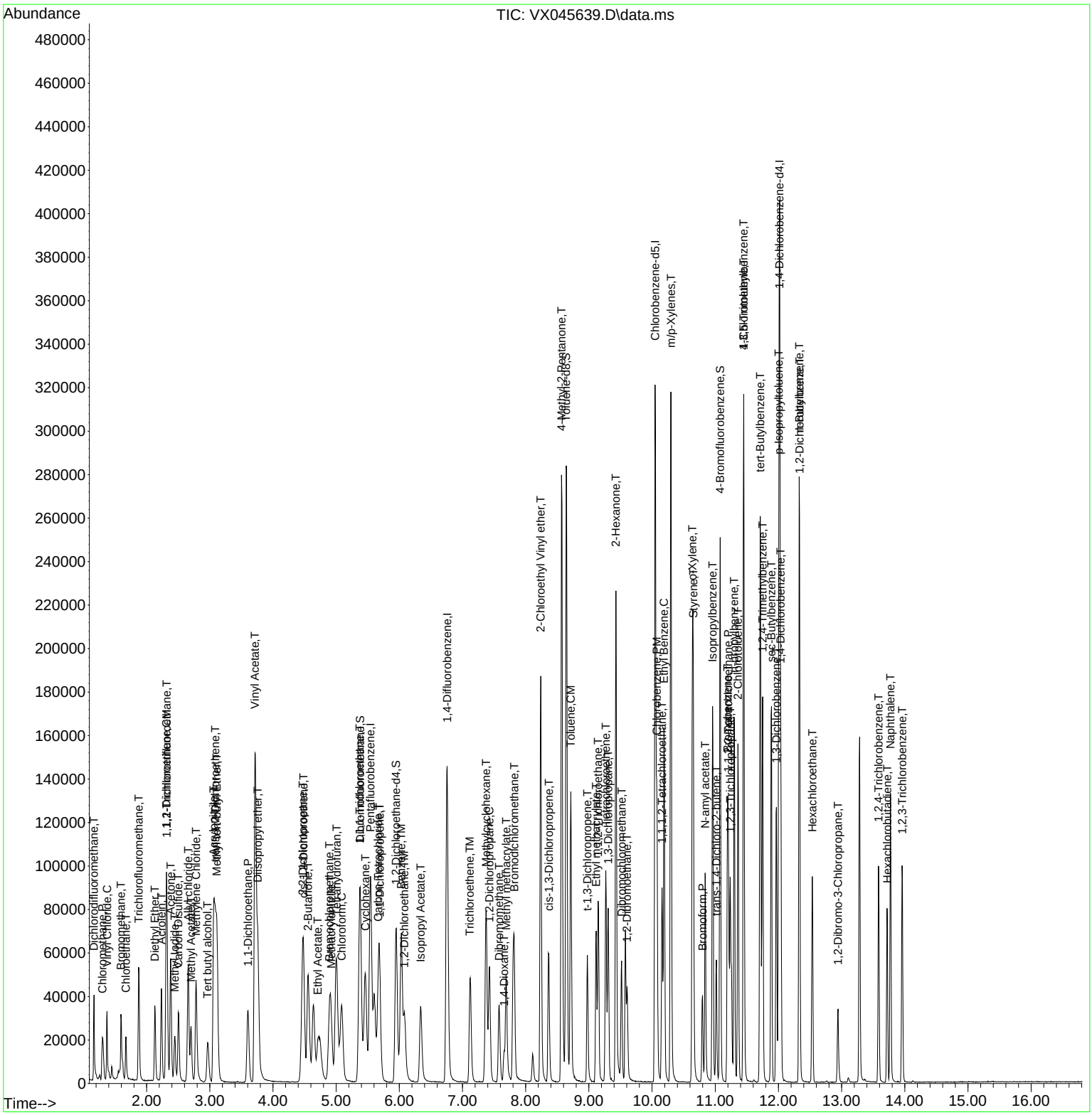
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Data File : VX045639.D
Acq On : 08 Apr 2025 10:08
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Sample : VX0408WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 09 01:33:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0408WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/09/2025
Supervised By :Mahesh Dadoda 04/09/2025



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

Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VX040225	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:	vx040825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045635.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:37 AM	MMDadoda	4/9/2025 11:41:11 AM	Peak Integrated by Software
VX0408WBS01	VX045638.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:42 AM	MMDadoda	4/9/2025 11:41:13 AM	Peak Integrated by Software
VX0408WBSD01	VX045639.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:47 AM	MMDadoda	4/9/2025 11:41:15 AM	Peak Integrated by Software
VSTDCCC050	VX045662.D	1,2,3-Trichloropropane	JOHN	4/9/2025 9:10:53 AM	MMDadoda	4/9/2025 11:41:16 AM	Peak Integrated by Software

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 # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045634.D	08 Apr 2025 07:49	JC/MD	Ok
2	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	JC/MD	Ok,M
3	VX0408MBL01	VX045636.D	08 Apr 2025 08:49	JC/MD	Ok
4	VX0408WBL01	VX045637.D	08 Apr 2025 09:12	JC/MD	Ok
5	VX0408WBS01	VX045638.D	08 Apr 2025 09:43	JC/MD	Ok,M
6	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08	JC/MD	Ok,M
7	Q1741-01	VX045640.D	08 Apr 2025 10:32	JC/MD	Ok
8	Q1746-07	VX045641.D	08 Apr 2025 10:55	JC/MD	Ok
9	Q1702-03	VX045642.D	08 Apr 2025 11:18	JC/MD	Ok
10	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41	JC/MD	Ok
11	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05	JC/MD	Ok
12	Q1737-02	VX045645.D	08 Apr 2025 12:28	JC/MD	Ok
13	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51	JC/MD	Ok
14	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14	JC/MD	Ok
15	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38	JC/MD	Ok
16	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01	JC/MD	Ok
17	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24	JC/MD	Ok
18	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47	JC/MD	Ok
19	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11	JC/MD	Ok
20	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34	JC/MD	Ok
21	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1745-04	VX045655.D	08 Apr 2025 16:21	JC/MD	Ok
23	Q1732-04	VX045656.D	08 Apr 2025 16:44	JC/MD	Ok
24	Q1740-04	VX045657.D	08 Apr 2025 17:07	JC/MD	Ok
25	Q1745-12	VX045658.D	08 Apr 2025 17:31	JC/MD	Ok
26	Q1743-04	VX045659.D	08 Apr 2025 17:54	JC/MD	Ok
27	Q1744-02	VX045660.D	08 Apr 2025 18:17	JC/MD	Ok
28	Q1744-04	VX045661.D	08 Apr 2025 18:40	JC/MD	Ok
29	VSTDCCC050	VX045662.D	08 Apr 2025 19:04	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER-	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER-	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
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	VX045634.D	08 Apr 2025 07:49		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045635.D	08 Apr 2025 08:24	pH#Lot#V12668	JC/MD	Ok,M
3	VX0408MBL01	VX0408MBL01	VX045636.D	08 Apr 2025 08:49		JC/MD	Ok
4	VX0408WBL01	VX0408BWL01	VX045637.D	08 Apr 2025 09:12		JC/MD	Ok
5	VX0408WBS01	VX0408WBS01	VX045638.D	08 Apr 2025 09:43		JC/MD	Ok,M
6	VX0408WBSD01	VX0408WBSD01	VX045639.D	08 Apr 2025 10:08		JC/MD	Ok,M
7	Q1741-01	RMW-02B-66-040425	VX045640.D	08 Apr 2025 10:32	vial A pH<2	JC/MD	Ok
8	Q1746-07	EB-2025-4-7	VX045641.D	08 Apr 2025 10:55	vial B pH<2 EB	JC/MD	Ok
9	Q1702-03	60442	VX045642.D	08 Apr 2025 11:18	vial A pH<2 Foamy sample	JC/MD	Ok
10	PB167492ZHE01	PB167492ZHE01	VX045643.D	08 Apr 2025 11:41		JC/MD	Ok
11	PB167492ZHE02	PB167492ZHE02	VX045644.D	08 Apr 2025 12:05		JC/MD	Ok
12	Q1737-02	RT3069	VX045645.D	08 Apr 2025 12:28	vial A pH#5.0	JC/MD	Ok
13	PB167492ZHE04	PB167492ZHE04	VX045646.D	08 Apr 2025 12:51		JC/MD	Ok
14	PB167492ZHE05	PB167492ZHE05	VX045647.D	08 Apr 2025 13:14		JC/MD	Ok
15	PB167492ZHE06	PB167492ZHE06	VX045648.D	08 Apr 2025 13:38		JC/MD	Ok
16	PB167492ZHE07	PB167492ZHE07	VX045649.D	08 Apr 2025 14:01		JC/MD	Ok
17	PB167492ZHE08	PB167492ZHE08	VX045650.D	08 Apr 2025 14:24		JC/MD	Ok
18	PB167492ZHE09	PB167492ZHE09	VX045651.D	08 Apr 2025 14:47		JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040825

Review By	John Carlone	Review On	4/9/2025 9:21:19 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/9/2025 11:41:10 AM		
SubDirectory	VX040825	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133619
Initial Calibration Stds	
CCC	VP133620,VP133621
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167492ZHE10	PB167492ZHE10	VX045652.D	08 Apr 2025 15:11		JC/MD	Ok
20	PB167492ZHE11	PB167492ZHE11	VX045653.D	08 Apr 2025 15:34		JC/MD	Ok
21	PB167492ZHE03	PB167492ZHE03	VX045654.D	08 Apr 2025 15:58		JC/MD	Ok
22	Q1745-04	IB-6A-WC	VX045655.D	08 Apr 2025 16:21	vial A pH#5.0	JC/MD	Ok
23	Q1732-04	TT-8	VX045656.D	08 Apr 2025 16:44	vial A pH#5.0	JC/MD	Ok
24	Q1740-04	TP-20	VX045657.D	08 Apr 2025 17:07	vial A pH#5.0	JC/MD	Ok
25	Q1745-12	IB-6.5-WC	VX045658.D	08 Apr 2025 17:31	vial A pH#5.0	JC/MD	Ok
26	Q1743-04	TP-16	VX045659.D	08 Apr 2025 17:54	vial A pH#5.0	JC/MD	Ok
27	Q1744-02	B-158-SB01	VX045660.D	08 Apr 2025 18:17	vial A pH#5.0	JC/MD	Ok
28	Q1744-04	B-158-SB02	VX045661.D	08 Apr 2025 18:40	vial A pH#5.0	JC/MD	Ok
29	VSTDCCC050	VSTDCCC050EC	VX045662.D	08 Apr 2025 19:04		JC/MD	Ok,M

M : Manual Integration

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LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP VOA	8260D			04/08/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP VOA	8260D			04/08/25	

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167492

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1

TCLP Filter ID : 50223706

Start Prep Date : 04/07/2025 **Time :** 15:00

End Prep Date : 04/08/2025 **Time :** 09:25

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP VX040825.

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : 12

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	WP110802
N/A	N/A	N/A
N/A	N/A	N/A
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	23237	N/A

Extraction Conformance/Non-Conformance Comments:

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25 11:45	JP / ZHE Room	S.T / VOC Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167492

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
PB167492TB	LEB492	11	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-1
Q1732-04	TT-8	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1737-02	RT3069	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1740-04	TP-20	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1743-04	TP-16	04	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1744-02	B-158-SB01	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1744-04	B-158-SB02	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1745-04	IB-6A-WC	07	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1745-12	IB-6.5-WC	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1746-02	B-149-SB01	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1746-04	B-149-SB02	10	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167492TB	LEB492	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	N/A	N/A	N/A	N/A	100	N/A
Q1737-02	RT3069	N/A	N/A	N/A	N/A	100	N/A
Q1740-04	TP-20	N/A	N/A	N/A	N/A	100	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1746 **WorkList ID :** 188780 **Department :** TCLP Extraction **Date :** 04-07-2025 13:59:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1732-04	TT-8	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	04/04/2025	1311 ZHE
Q1737-02	RT3069	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	04/04/2025	1311 ZHE
Q1740-04	TP-20	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L21	04/04/2025	1311 ZHE
Q1743-04	TP-16	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311 ZHE
Q1744-02	B-158-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1744-04	B-158-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1745-04	IB-6A-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311 ZHE
Q1745-12	IB-6.5-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311 ZHE
Q1746-02	B-149-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311 ZHE
Q1746-04	B-149-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311 ZHE

Date/Time 04/07/25 14:10
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 04/07/25 17:00
Raw Sample Received by:
Raw Sample Relinquished by: cool C

Q1744

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

Hit Summary Sheet
SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-158-SB01**								
Q1744-01	B-158-SB01	SOIL	Benzo(a)anthracene		81.900	J	25.5	190	ug/Kg
Q1744-01	B-158-SB01	SOIL	Chrysene		160.000	J	22.1	190	ug/Kg
Q1744-01	B-158-SB01	SOIL	Benzo(b)fluoranthene		160.000	J	21.1	190	ug/Kg
Q1744-01	B-158-SB01	SOIL	Benzo(k)fluoranthene		160.000	J	24.9	190	ug/Kg
			Total Svoc :		**561.90**				
Q1744-01	B-158-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	480.000	AB	0	0	ug/Kg
Q1744-01	B-158-SB01	SOIL	Cyclohexadecane	*	140.000	J	0	0	ug/Kg
Q1744-01	B-158-SB01	SOIL	n-Hexadecanoic acid	*	700.000	JB	0	0	ug/Kg
Q1744-01	B-158-SB01	SOIL	Octadecanoic acid	*	230.000	JB	0	0	ug/Kg
Q1744-01	B-158-SB01	SOIL	Benzophenone	*	300.000	J	0	0	ug/Kg
			Total Tics :		**1,850.00**				
			Total Concentration:		**2,411.90**				
Client ID :	**B-158-SB02**								
Q1744-03	B-158-SB02	SOIL	Benzo(b)fluoranthene		150.000	J	33.9	300	ug/Kg
Q1744-03	B-158-SB02	SOIL	Benzo(k)fluoranthene		130.000	J	39.9	300	ug/Kg
			Total Svoc :		**280.00**				
Q1744-03	B-158-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	530.000	AB	0	0	ug/Kg
Q1744-03	B-158-SB02	SOIL	Benzophenone	*	460.000	J	0	0	ug/Kg
Q1744-03	B-158-SB02	SOIL	Cyclotetracosane	*	240.000	J	0	0	ug/Kg
Q1744-03	B-158-SB02	SOIL	n-Hexadecanoic acid	*	440.000	JB	0	0	ug/Kg
			Total Tics :		**1,670.00**				
			Total Concentration:		**1,950.00**				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
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
BM049864.D	1	04/08/25 08:59	04/09/25 12:29	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.5	U	24.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.0	U	27.0	190	ug/Kg
95-57-8	2-Chlorophenol	27.1	U	27.1	190	ug/Kg
95-48-7	2-Methylphenol	33.2	U	33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.6	U	41.6	190	ug/Kg
98-86-2	Acetophenone	32.8	U	32.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.6	U	45.6	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.6	U	52.6	88.8	ug/Kg
67-72-1	Hexachloroethane	19.5	U	19.5	190	ug/Kg
98-95-3	Nitrobenzene	20.3	U	20.3	190	ug/Kg
78-59-1	Isophorone	36.4	U	36.4	190	ug/Kg
88-75-5	2-Nitrophenol	64.6	U	64.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.0	U	72.0	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.2	U	34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.4	U	31.4	190	ug/Kg
91-20-3	Naphthalene	25.2	U	25.2	190	ug/Kg
106-47-8	4-Chloroaniline	39.3	UQ	39.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.1	U	28.1	190	ug/Kg
105-60-2	Caprolactam	57.9	U	57.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.9	U	31.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.4	U	28.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	UQ	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.0	U	22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.3	U	32.3	190	ug/Kg
92-52-4	1,1-Biphenyl	24.2	U	24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.0	U	25.0	190	ug/Kg
88-74-4	2-Nitroaniline	53.4	U	53.4	190	ug/Kg
131-11-3	Dimethylphthalate	30.1	U	30.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
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
BM049864.D	1	04/08/25 08:59	04/09/25 12:29	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.1	U	32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.3	U	37.3	190	ug/Kg
99-09-2	3-Nitroaniline	51.1	UQ	51.1	190	ug/Kg
83-32-9	Acenaphthene	23.7	U	23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.2	U	25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.6	U	55.6	190	ug/Kg
84-66-2	Diethylphthalate	31.4	U	31.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.6	U	29.6	190	ug/Kg
86-73-7	Fluorene	28.1	U	28.1	190	ug/Kg
100-01-6	4-Nitroaniline	71.3	U	71.3	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.5	U	36.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.9	U	30.9	190	ug/Kg
118-74-1	Hexachlorobenzene	28.1	U	28.1	190	ug/Kg
1912-24-9	Atrazine	37.8	U	37.8	190	ug/Kg
87-86-5	Pentachlorophenol	57.0	U	57.0	370	ug/Kg
85-01-8	Phenanthrene	23.2	U	23.2	190	ug/Kg
120-12-7	Anthracene	37.0	U	37.0	190	ug/Kg
86-74-8	Carbazole	34.6	U	34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.2	U	53.2	190	ug/Kg
206-44-0	Fluoranthene	33.3	U	33.3	190	ug/Kg
129-00-0	Pyrene	40.0	U	40.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.3	U	79.3	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.8	U	40.8	370	ug/Kg
56-55-3	Benzo(a)anthracene	81.9	J	25.5	190	ug/Kg
218-01-9	Chrysene	160	J	22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.7	U	65.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.4	U	96.4	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	J	21.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
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
BM049864.D	1	04/08/25 08:59	04/09/25 12:29	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	J	24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.8	U	32.8	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.3	U	32.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.4	U	30.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.5	U	28.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.4	U	28.4	190	ug/Kg
123-91-1	1,4-Dioxane	50.2	U	50.2	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.4	U	30.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	136		30 (18) - 130 (112)	90%	SPK: 150
13127-88-3	Phenol-d6	136		30 (15) - 130 (107)	91%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.4		30 (18) - 130 (107)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.3		30 (20) - 130 (109)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	154		30 (10) - 130 (116)	103%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (10) - 130 (105)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	270000	7.775			
1146-65-2	Naphthalene-d8	927000	10.569			
15067-26-2	Acenaphthene-d10	602000	14.416			
1517-22-2	Phenanthrene-d10	1220000	17.163			
1719-03-5	Chrysene-d12	1280000	21.398			
1520-96-3	Perylene-d12	1380000	24.391			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	480	AB		4.89	ug/Kg
000119-61-9	Benzophenone	300	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	700	JB		18.1	ug/Kg
000057-11-4	Octadecanoic acid	230	JB		19.3	ug/Kg
000295-65-8	Cyclohexadecane	140	J		21.1	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
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
BM049864.D	1	04/08/25 08:59	04/09/25 12:29	PB167509

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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	56
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049869.D	1	04/08/25 08:59	04/09/25 15:45	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	280	U	280	590	ug/Kg
108-95-2	Phenol	39.4	U	39.4	300	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	43.3	U	43.3	300	ug/Kg
95-57-8	2-Chlorophenol	43.5	U	43.5	300	ug/Kg
95-48-7	2-Methylphenol	53.3	U	53.3	300	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	66.8	U	66.8	300	ug/Kg
98-86-2	Acetophenone	52.6	U	52.6	300	ug/Kg
65794-96-9	3+4-Methylphenols	73.2	U	73.2	590	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	84.5	U	84.5	140	ug/Kg
67-72-1	Hexachloroethane	31.4	U	31.4	300	ug/Kg
98-95-3	Nitrobenzene	32.6	U	32.6	300	ug/Kg
78-59-1	Isophorone	58.5	U	58.5	300	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	300	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	300	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	54.9	U	54.9	300	ug/Kg
120-83-2	2,4-Dichlorophenol	50.4	U	50.4	300	ug/Kg
91-20-3	Naphthalene	40.5	U	40.5	300	ug/Kg
106-47-8	4-Chloroaniline	63.1	UQ	63.1	300	ug/Kg
87-68-3	Hexachlorobutadiene	45.1	U	45.1	300	ug/Kg
105-60-2	Caprolactam	92.9	U	92.9	590	ug/Kg
59-50-7	4-Chloro-3-methylphenol	51.1	U	51.1	300	ug/Kg
91-57-6	2-Methylnaphthalene	45.6	U	45.6	300	ug/Kg
77-47-4	Hexachlorocyclopentadiene	210	UQ	210	590	ug/Kg
88-06-2	2,4,6-Trichlorophenol	35.3	U	35.3	300	ug/Kg
95-95-4	2,4,5-Trichlorophenol	51.9	U	51.9	300	ug/Kg
92-52-4	1,1-Biphenyl	38.9	U	38.9	300	ug/Kg
91-58-7	2-Chloronaphthalene	40.1	U	40.1	300	ug/Kg
88-74-4	2-Nitroaniline	85.7	U	85.7	300	ug/Kg
131-11-3	Dimethylphthalate	48.3	U	48.3	300	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	56
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049869.D	1	04/08/25 08:59	04/09/25 15:45	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	51.5	U	51.5	300	ug/Kg
606-20-2	2,6-Dinitrotoluene	59.9	U	59.9	300	ug/Kg
99-09-2	3-Nitroaniline	82.0	UQ	82.0	300	ug/Kg
83-32-9	Acenaphthene	38.0	U	38.0	300	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	410	590	ug/Kg
100-02-7	4-Nitrophenol	190	U	190	590	ug/Kg
132-64-9	Dibenzofuran	40.5	U	40.5	300	ug/Kg
121-14-2	2,4-Dinitrotoluene	89.3	U	89.3	300	ug/Kg
84-66-2	Diethylphthalate	50.4	U	50.4	300	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	47.6	U	47.6	300	ug/Kg
86-73-7	Fluorene	45.1	U	45.1	300	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	300	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	180	U	180	590	ug/Kg
86-30-6	n-Nitrosodiphenylamine	58.6	U	58.6	300	ug/Kg
101-55-3	4-Bromophenyl-phenylether	49.5	U	49.5	300	ug/Kg
118-74-1	Hexachlorobenzene	45.1	U	45.1	300	ug/Kg
1912-24-9	Atrazine	60.6	U	60.6	300	ug/Kg
87-86-5	Pentachlorophenol	91.4	U	91.4	590	ug/Kg
85-01-8	Phenanthrene	37.2	U	37.2	300	ug/Kg
120-12-7	Anthracene	59.3	U	59.3	300	ug/Kg
86-74-8	Carbazole	55.6	U	55.6	300	ug/Kg
84-74-2	Di-n-butylphthalate	85.4	U	85.4	300	ug/Kg
206-44-0	Fluoranthene	53.5	U	53.5	300	ug/Kg
129-00-0	Pyrene	64.2	U	64.2	300	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	300	ug/Kg
91-94-1	3,3-Dichlorobenzidine	65.4	U	65.4	590	ug/Kg
56-55-3	Benzo(a)anthracene	41.0	U	41.0	300	ug/Kg
218-01-9	Chrysene	35.5	U	35.5	300	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	300	ug/Kg
117-84-0	Di-n-octyl phthalate	150	U	150	590	ug/Kg
205-99-2	Benzo(b)fluoranthene	150	J	33.9	300	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	56
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049869.D	1	04/08/25 08:59	04/09/25 15:45	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	J	39.9	300	ug/Kg
50-32-8	Benzo(a)pyrene	52.6	U	52.6	300	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	51.9	U	51.9	300	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	48.8	U	48.8	300	ug/Kg
191-24-2	Benzo(g,h,i)perylene	45.8	U	45.8	300	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	45.6	U	45.6	300	ug/Kg
123-91-1	1,4-Dioxane	80.6	U	80.6	300	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	48.8	U	48.8	300	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		30 (18) - 130 (112)	67%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.9		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.4		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	108		30 (10) - 130 (116)	72%	SPK: 150
1718-51-0	Terphenyl-d14	74.8		30 (10) - 130 (105)	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	346000	7.781			
1146-65-2	Naphthalene-d8	1230000	10.575			
15067-26-2	Acenaphthene-d10	818000	14.421			
1517-22-2	Phenanthrene-d10	1630000	17.162			
1719-03-5	Chrysene-d12	1500000	21.397			
1520-96-3	Perylene-d12	1630000	24.397			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	530	AB		4.90	ug/Kg
000119-61-9	Benzophenone	460	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	440	JB		18.1	ug/Kg
000297-03-0	Cyclotetracosane	240	J		21.1	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	56
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049869.D	1	04/08/25 08:59	04/09/25 15:45	PB167509

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

QC SUMMARY

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

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167509BL	PB167509BL	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	134	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	95.5	95		30 (18)	130 (107)
		2-Fluorobiphenyl	100	96.3	96		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	146	97		30 (10)	130 (116)
		Terphenyl-d14	100	112	112		30 (10)	130 (105)
PB167509BS	PB167509BS	2-Fluorophenol	150	127	85		30 (18)	130 (112)
		Phenol-d6	150	126	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.2	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	89.2	89		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	145	97		30 (10)	130 (116)
		Terphenyl-d14	100	101	101		30 (10)	130 (105)
Q1744-01	B-158-SB01	2-Fluorophenol	150	136	90		30 (18)	130 (112)
		Phenol-d6	150	136	91		30 (15)	130 (107)
		Nitrobenzene-d5	100	95.4	95		30 (18)	130 (107)
		2-Fluorobiphenyl	100	94.3	94		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	154	103		30 (10)	130 (116)
		Terphenyl-d14	100	106	106		30 (10)	130 (105)
Q1744-01MS	B-158-SB01MS	2-Fluorophenol	150	123	82		30 (18)	130 (112)
		Phenol-d6	150	125	83		30 (15)	130 (107)
		Nitrobenzene-d5	100	82.9	83		30 (18)	130 (107)
		2-Fluorobiphenyl	100	81.7	82		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	89.4	89		30 (10)	130 (105)
Q1744-01MSD	B-158-SB01MSD	2-Fluorophenol	150	127	85		30 (18)	130 (112)
		Phenol-d6	150	130	87		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.2	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	85.2	85		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	141	94		30 (10)	130 (116)
		Terphenyl-d14	100	93.3	93		30 (10)	130 (105)
Q1744-03	B-158-SB02	2-Fluorophenol	150	100	67		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	67.9	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.4	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	108	72		30 (10)	130 (116)
		Terphenyl-d14	100	74.8	75		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

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: Q1744-01MS		**Client Sample ID: B-158-SB01MS**						**DataFile: BM049865.D**			
Benzaldehyde	1800	0	1600	ug/Kg	89				20 (10)	160 (86)	
Phenol	1800	0	1900	ug/Kg	106				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94				70 (54)	130 (125)	
2-Chlorophenol	1800	0	1800	ug/Kg	100				70 (79)	130 (107)	
2-Methylphenol	1800	0	1900	ug/Kg	106				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1800	0	1800	ug/Kg	100				70 (65)	130 (110)	
Acetophenone	1800	0	1700	ug/Kg	94				70 (75)	130 (111)	
3+4-Methylphenols	1800	0	1900	ug/Kg	106				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1800	0	1800	ug/Kg	100				70 (59)	130 (119)	
Hexachloroethane	1800	0	1700	ug/Kg	94				20 (65)	160 (117)	
Nitrobenzene	1800	0	1700	ug/Kg	94				70 (70)	130 (119)	
Isophorone	1800	0	1900	ug/Kg	106				70 (76)	130 (122)	
2-Nitrophenol	1800	0	1700	ug/Kg	94				70 (54)	130 (145)	
2,4-Dimethylphenol	1800	0	2600	ug/Kg	144	*			70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1800	0	1700	ug/Kg	94				70 (68)	130 (112)	
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (118)	
Naphthalene	1800	0	1700	ug/Kg	94				70 (72)	130 (110)	
4-Chloroaniline	1800	0	410	ug/Kg	23	*			70 (10)	130 (91)	
Hexachlorobutadiene	1800	0	1700	ug/Kg	94				70 (66)	130 (114)	
Caprolactam	1800	0	1700	ug/Kg	94				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1800	0	1800	ug/Kg	100				70 (57)	130 (132)	
2-Methylnaphthalene	1800	0	1600	ug/Kg	89				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3700	0	6500	ug/Kg	176	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	1800	0	1700	ug/Kg	94				70 (75)	130 (113)	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
2-Nitroaniline	1800	0	1800	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1800	0	1700	ug/Kg	94				70 (70)	130 (113)	
Acenaphthylene	1800	0	1900	ug/Kg	106				70 (79)	130 (118)	
2,6-Dinitrotoluene	1800	0	1800	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	1800	0	500	ug/Kg	28	*			70 (30)	130 (99)	
Acenaphthene	1800	0	1700	ug/Kg	94				70 (70)	130 (121)	
2,4-Dinitrophenol	3700	0	3100	ug/Kg	84				20 (10)	160 (155)	
4-Nitrophenol	3700	0	3900	ug/Kg	105				20 (45)	160 (133)	
Dibenzofuran	1800	0	1700	ug/Kg	94				70 (72)	130 (110)	
2,4-Dinitrotoluene	1800	0	1900	ug/Kg	106				70 (55)	130 (128)	
Diethylphthalate	1800	0	1700	ug/Kg	94				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (71)	130 (108)	
Fluorene	1800	0	1800	ug/Kg	100				70 (68)	130 (116)	
4-Nitroaniline	1800	0	1600	ug/Kg	89				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1800	0	1700	ug/Kg	94				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1800	0	1800	ug/Kg	100				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1800	0	1700	ug/Kg	94				70 (65)	130 (121)	
Hexachlorobenzene	1800	0	1800	ug/Kg	100				70 (67)	130 (118)	
Atrazine	1800	0	2500	ug/Kg	139	*			70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

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	3700	0	3600	ug/Kg	97				20 (47)	160 (128)	
Phenanthrene	1800	0	1800	ug/Kg	100				70 (52)	130 (128)	
Anthracene	1800	0	1800	ug/Kg	100				70 (62)	130 (124)	
Carbazole	1800	0	1800	ug/Kg	100				70 (59)	130 (119)	
Di-n-butylphthalate	1800	0	1700	ug/Kg	94				70 (69)	130 (118)	
Fluoranthene	1800	0	1800	ug/Kg	100				70 (44)	130 (125)	
Pyrene	1800	0	1700	ug/Kg	94				70 (26)	130 (142)	
Butylbenzylphthalate	1800	0	1600	ug/Kg	89				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1800	0	550	ug/Kg	31	*			70 (33)	130 (116)	
Benzo(a)anthracene	1800	81.9	1800	ug/Kg	95				70 (71)	130 (114)	
Chrysene	1800	160	1900	ug/Kg	97				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1800	0	1700	ug/Kg	94				70 (42)	130 (169)	
Di-n-octyl phthalate	1800	0	1600	ug/Kg	89				70 (23)	130 (175)	
Benzo(b)fluoranthene	1800	160	1900	ug/Kg	97				70 (67)	130 (121)	
Benzo(k)fluoranthene	1800	160	1900	ug/Kg	97				70 (57)	130 (134)	
Benzo(a)pyrene	1800	0	1900	ug/Kg	106				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1800	0	1800	ug/Kg	100				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1800	0	1800	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1800	0	1700	ug/Kg	94				70 (69)	130 (124)	
1,4-Dioxane	1800	0	1600	ug/Kg	89				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1800	0	1700	ug/Kg	94				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

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: Q1744-01MSD		**Client Sample ID: B-158-SB01MSD**						**DataFile: BM049866.D**			
Benzaldehyde	1800	0	1600	ug/Kg	89		0		20 (10)	160 (86)	30 (20)
Phenol	1800	0	1900	ug/Kg	106		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1800	0	1800	ug/Kg	100		6		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1800	0	1900	ug/Kg	106		6		70 (79)	130 (107)	30 (20)
2-Methylphenol	1800	0	2000	ug/Kg	111		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1800	0	1900	ug/Kg	106		6		70 (65)	130 (110)	30 (20)
Acetophenone	1800	0	1800	ug/Kg	100		6		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1800	0	2000	ug/Kg	111		5		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1800	0	1900	ug/Kg	106		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	1800	0	1800	ug/Kg	100		6		20 (65)	160 (117)	30 (20)
Nitrobenzene	1800	0	1800	ug/Kg	100		6		70 (70)	130 (119)	30 (20)
Isophorone	1800	0	1900	ug/Kg	106		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1800	0	1800	ug/Kg	100		6		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1800	0	2700	ug/Kg	150	*	4		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1800	0	1800	ug/Kg	100		6		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (118)	30 (20)
Naphthalene	1800	0	1700	ug/Kg	94		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1800	0	450	ug/Kg	25	*	8		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1800	0	1800	ug/Kg	100		6		70 (66)	130 (114)	30 (20)
Caprolactam	1800	0	1800	ug/Kg	100		6		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1800	0	1900	ug/Kg	106		6		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1800	0	1600	ug/Kg	89		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3700	0	6800	ug/Kg	184	*	4		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1800	0	1800	ug/Kg	100		6		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1800	0	1800	ug/Kg	100		6		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1800	0	1900	ug/Kg	106		6		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1800	0	1800	ug/Kg	100		6		70 (70)	130 (113)	30 (20)
Acenaphthylene	1800	0	1900	ug/Kg	106		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1800	0	1900	ug/Kg	106		6		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1800	0	510	ug/Kg	28	*	0		70 (30)	130 (99)	30 (20)
Acenaphthene	1800	0	1800	ug/Kg	100		6		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3700	0	3200	ug/Kg	86		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3700	0	4100	ug/Kg	111		6		20 (45)	160 (133)	30 (20)
Dibenzofuran	1800	0	1700	ug/Kg	94		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1800	0	2000	ug/Kg	111		5		70 (55)	130 (128)	30 (20)
Diethylphthalate	1800	0	1800	ug/Kg	100		6		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (71)	130 (108)	30 (20)
Fluorene	1800	0	1800	ug/Kg	100		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1800	0	1700	ug/Kg	94		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1800	0	1800	ug/Kg	100		6		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1800	0	1800	ug/Kg	100		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1800	0	1800	ug/Kg	100		6		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1800	0	1800	ug/Kg	100		0		70 (67)	130 (118)	30 (20)
Atrazine	1800	0	2600	ug/Kg	144	*	4		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3700	0	3700	ug/Kg	100		3		20 (47)	160 (128)	30 (20)
Phenanthrene	1800	0	1800	ug/Kg	100		0		70 (52)	130 (128)	30 (20)
Anthracene	1800	0	1900	ug/Kg	106		6		70 (62)	130 (124)	30 (20)
Carbazole	1800	0	1900	ug/Kg	106		6		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1800	0	1800	ug/Kg	100		6		70 (69)	130 (118)	30 (20)
Fluoranthene	1800	0	1900	ug/Kg	106		6		70 (44)	130 (125)	30 (20)
Pyrene	1800	0	1800	ug/Kg	100		6		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1800	0	1700	ug/Kg	94		5		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1800	0	580	ug/Kg	32	*	3		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1800	81.9	1900	ug/Kg	101		6		70 (71)	130 (114)	30 (20)
Chrysene	1800	160	1900	ug/Kg	97		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1800	0	1700	ug/Kg	94		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1800	0	1700	ug/Kg	94		5		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1800	160	1900	ug/Kg	97		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1800	160	2000	ug/Kg	102		5		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1800	0	2000	ug/Kg	111		5		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106		6		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1800	0	1900	ug/Kg	106		6		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1800	0	1800	ug/Kg	100		6		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1800	0	1800	ug/Kg	100		6		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1800	0	1600	ug/Kg	89		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1800	0	1800	ug/Kg	100		6		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049947.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167509BS	Benzaldehyde	1700	1100	ug/Kg	65				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1600	ug/Kg	94				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	2200	ug/Kg	129				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	820	ug/Kg	48		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1500	ug/Kg	88				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5400	ug/Kg	164		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				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	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1500	ug/Kg	88				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2900	ug/Kg	88				20 (37)	160 (128)	
	4-Nitrophenol	3300	3200	ug/Kg	97				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				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.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM049947.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167509BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	2200	ug/Kg	129				70 (47)	130 (152)	
	Pentachlorophenol	3300	3100	ug/Kg	94				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1700	ug/Kg	100				70 (61)	130 (105)	
	Carbazole	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				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	1600	ug/Kg	94				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	1500	ug/Kg	88				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				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	1600	ug/Kg	94				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	1500	ug/Kg	88				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167509BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BM049877.D Lab Sample ID: PB167509BL

Instrument ID: BNA_M Date Extracted: 04/08/2025

Matrix: (soil/water) SOIL Date Analyzed: 04/10/2025

Level: (low/med) LOW Time Analyzed: 10:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167509BS	PB167509BS	BM049947.D	04/16/2025
B-158-SB01	Q1744-01	BM049864.D	04/09/2025
B-158-SB01MS	Q1744-01MS	BM049865.D	04/09/2025
B-158-SB01MSD	Q1744-01MSD	BM049866.D	04/09/2025
B-158-SB02	Q1744-03	BM049869.D	04/09/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BM049847.D DFTPP Injection Date: 04/08/2025

Instrument ID: BNA_M DFTPP Injection Time: 12:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.1
68	Less than 2.0% of mass 69	0.3 (1.2) 1
69	Mass 69 relative abundance	26.5
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	34.9
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	12.4
442	Greater than 50% of mass 198	81.2
443	15.0 - 24.0% of mass 442	15.3 (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	BM049848.D	04/08/2025	13:35
SSTDICC005	SSTDICC005	BM049849.D	04/08/2025	14:14
SSTDICC010	SSTDICC010	BM049850.D	04/08/2025	14:53
SSTDICC020	SSTDICC020	BM049851.D	04/08/2025	15:32
SSTDICCC040	SSTDICCC040	BM049852.D	04/08/2025	16:12
SSTDICC050	SSTDICC050	BM049853.D	04/08/2025	17:30
SSTDICC060	SSTDICC060	BM049854.D	04/08/2025	19:28
SSTDICC080	SSTDICC080	BM049855.D	04/08/2025	20:07

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BM049858.D DFTPP Injection Date: 04/09/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.8
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	28.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	35.4
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	11.4
442	Greater than 50% of mass 198	71.5
443	15.0 - 24.0% of mass 442	13.8 (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	BM049859.D	04/09/2025	09:09
B-158-SB01	Q1744-01	BM049864.D	04/09/2025	12:29
B-158-SB01MS	Q1744-01MS	BM049865.D	04/09/2025	13:08
B-158-SB01MSD	Q1744-01MSD	BM049866.D	04/09/2025	13:47
B-158-SB02	Q1744-03	BM049869.D	04/09/2025	15:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BM049875.D DFTPP Injection Date: 04/10/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	25.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	33.2
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	76
443	15.0 - 24.0% of mass 442	15 (19.7) 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	BM049876.D	04/10/2025	09:32
PB167509BL	PB167509BL	BM049877.D	04/10/2025	10:11

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BM049943.D DFTPP Injection Date: 04/16/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	27.6
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	34.9
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.1
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	75.3
443	15.0 - 24.0% of mass 442	14.6 (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	BM049944.D	04/16/2025	09:28
PB167509BS	PB167509BS	BM049947.D	04/16/2025	11:26

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/09/2025

Lab File ID: BM049859.D Time Analyzed: 09:09

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	296698	7.775	1015270	10.57	639621	14.42
	UPPER LIMIT	593396	8.275	2030540	11.069	1279240	14.922
	LOWER LIMIT	148349	7.275	507635	10.069	319811	13.922
	EPA SAMPLE NO.						
01	B-158-SB01MS	298114	7.78	1050150	10.57	691142	14.42
02	B-158-SB01MSD	285351	7.78	1005760	10.57	663787	14.42
03	B-158-SB02	345979	7.78	1234000	10.58	818312	14.42
04	B-158-SB01	270450	7.78	926727	10.57	601767	14.42

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/09/2025

Lab File ID: BM049859.D Time Analyzed: 09:09

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1259630	17.163	1253560	21.398	1316820	24.397
	UPPER LIMIT	2519260	17.663	2507120	21.898	2633640	24.897
	LOWER LIMIT	629815	16.663	626780	20.898	658410	23.897
	EPA SAMPLE NO.						
01	B-158-SB01MS	1385050	17.16	1462180	21.40	1514540	24.39
02	B-158-SB01MSD	1342340	17.16	1401870	21.40	1461450	24.39
03	B-158-SB02	1627510	17.16	1500410	21.40	1632310	24.40
04	B-158-SB01	1216380	17.16	1277210	21.40	1378200	24.39

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/10/2025

Lab File ID: BM049876.D Time Analyzed: 09:32

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	319220	7.781	1042650	10.57	653251	14.42
	UPPER LIMIT	638440	8.281	2085300	11.074	1306500	14.921
	LOWER LIMIT	159610	7.281	521325	10.074	326626	13.921
	EPA SAMPLE NO.						
01	PB167509BL	304918	7.78	1031960	10.57	649646	14.42

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/10/2025

Lab File ID: BM049876.D Time Analyzed: 09:32

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1279700	17.162	1240970	21.397	1368350	24.397
	UPPER LIMIT	2559400	17.662	2481940	21.897	2736700	24.897
	LOWER LIMIT	639850	16.662	620485	20.897	684175	23.897
	EPA SAMPLE NO.						
01	PB167509BL	1225290	17.16	1173500	21.40	1306480	24.40

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/16/2025

Lab File ID: BM049944.D Time Analyzed: 09:28

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	390253	7.769	1356600	10.56	881748	14.42
	UPPER LIMIT	780506	8.269	2713200	11.063	1763500	14.916
	LOWER LIMIT	195127	7.269	678300	10.063	440874	13.916
	EPA SAMPLE NO.						
01	PB167509BS	335569	7.77	1154160	10.56	723173	14.42

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/16/2025

Lab File ID: BM049944.D Time Analyzed: 09:28

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1791610	17.163	1770470	21.403	1819920	24.409
	UPPER LIMIT	3583220	17.663	3540940	21.903	3639840	24.909
	LOWER LIMIT	895805	16.663	885235	20.903	909960	23.909
	EPA SAMPLE NO.						
01	PB167509BS	1408530	17.16	1396790	21.40	1468800	24.40

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BL	SDG No.:	Q1744
Lab Sample ID:	PB167509BL	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
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.1	U	58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.7	U	64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.0	U	52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BL	SDG No.:	Q1744
Lab Sample ID:	PB167509BL	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
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.0	U	50.0	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.1	U	64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.2	U	51.2	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.3	U	71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.1	U	59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BL	SDG No.:	Q1744
Lab Sample ID:	PB167509BL	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
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	134		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.5		30 (18) - 130 (107)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.3		30 (20) - 130 (109)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	146		30 (10) - 130 (116)	97%	SPK: 150
1718-51-0	Terphenyl-d14	112		30 (10) - 130 (105)	112%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	305000	7.775			
1146-65-2	Naphthalene-d8	1030000	10.569			
15067-26-2	Acenaphthene-d10	650000	14.421			
1517-22-2	Phenanthrene-d10	1230000	17.162			
1719-03-5	Chrysene-d12	1170000	21.397			
1520-96-3	Perylene-d12	1310000	24.397			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	350	A		4.89	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.1	ug/Kg
000057-11-4	Octadecanoic acid	81.3	J		19.3	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167509BL			SDG No.:	Q1744
Lab Sample ID:	PB167509BL			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
BM049877.D	1	04/08/25 08:59	04/10/25 10:11	PB167509

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 2025	Date Received:	
Client Sample ID:	PB167509BS	SDG No.:	Q1744
Lab Sample ID:	PB167509BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049947.D	1	04/08/25 08:59	04/16/25 11:26	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		37.5	170	ug/Kg
98-86-2	Acetophenone	1500		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1600		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1600		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	820		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5400	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1600		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BS	SDG No.:	Q1744
Lab Sample ID:	PB167509BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049947.D	1	04/08/25 08:59	04/16/25 11:26	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	1100		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2900	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3200	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	2200		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3100	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1600		20.9	170	ug/Kg
120-12-7	Anthracene	1700		33.3	170	ug/Kg
86-74-8	Carbazole	1600		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167509BS	SDG No.:	Q1744
Lab Sample ID:	PB167509BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM049947.D	1	04/08/25 08:59	04/16/25 11:26	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1200		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		30 (18) - 130 (112)	85%	SPK: 150
13127-88-3	Phenol-d6	126		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.2		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.2		30 (20) - 130 (109)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		30 (10) - 130 (116)	97%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (10) - 130 (105)	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	336000	7.769			
1146-65-2	Naphthalene-d8	1150000	10.563			
15067-26-2	Acenaphthene-d10	723000	14.416			
1517-22-2	Phenanthrene-d10	1410000	17.157			
1719-03-5	Chrysene-d12	1400000	21.404			
1520-96-3	Perylene-d12	1470000	24.403			

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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MS	SDG No.:	Q1744
Lab Sample ID:	Q1744-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
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
BM049865.D	1	04/08/25 08:59	04/09/25 13:08	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1600		170	370	ug/Kg
108-95-2	Phenol	1900		24.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1800		27.1	190	ug/Kg
95-48-7	2-Methylphenol	1900		33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		41.6	190	ug/Kg
98-86-2	Acetophenone	1700		32.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	1900		45.6	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		52.6	88.8	ug/Kg
67-72-1	Hexachloroethane	1700		19.5	190	ug/Kg
98-95-3	Nitrobenzene	1700		20.3	190	ug/Kg
78-59-1	Isophorone	1900		36.4	190	ug/Kg
88-75-5	2-Nitrophenol	1700		64.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2600		71.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		31.4	190	ug/Kg
91-20-3	Naphthalene	1700		25.2	190	ug/Kg
106-47-8	4-Chloroaniline	410		39.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1700		28.1	190	ug/Kg
105-60-2	Caprolactam	1700		57.8	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		31.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6500	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		32.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1700		24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1800		53.4	190	ug/Kg
131-11-3	Dimethylphthalate	1700		30.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MS	SDG No.:	Q1744
Lab Sample ID:	Q1744-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
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
BM049865.D	1	04/08/25 08:59	04/09/25 13:08	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		37.3	190	ug/Kg
99-09-2	3-Nitroaniline	500		51.0	190	ug/Kg
83-32-9	Acenaphthene	1700		23.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	3900	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1700		25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		55.6	190	ug/Kg
84-66-2	Diethylphthalate	1700		31.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		29.6	190	ug/Kg
86-73-7	Fluorene	1800		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1600		71.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		36.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		30.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		28.1	190	ug/Kg
1912-24-9	Atrazine	2500		37.7	190	ug/Kg
87-86-5	Pentachlorophenol	3600	E	56.9	370	ug/Kg
85-01-8	Phenanthrene	1800		23.2	190	ug/Kg
120-12-7	Anthracene	1800		37.0	190	ug/Kg
86-74-8	Carbazole	1800		34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	1700		53.2	190	ug/Kg
206-44-0	Fluoranthene	1800		33.3	190	ug/Kg
129-00-0	Pyrene	1700		39.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	1600		79.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	550		40.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	1800		25.5	190	ug/Kg
218-01-9	Chrysene	1900		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		65.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		96.3	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MS	SDG No.:	Q1744
Lab Sample ID:	Q1744-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
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
BM049865.D	1	04/08/25 08:59	04/09/25 13:08	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	1900		32.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		32.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		30.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		28.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		28.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		50.2	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		30.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	123		30 (18) - 130 (112)	82%	SPK: 150
13127-88-3	Phenol-d6	125		30 (15) - 130 (107)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.9		30 (18) - 130 (107)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.7		30 (20) - 130 (109)	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	89.4		30 (10) - 130 (105)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	298000	7.775			
1146-65-2	Naphthalene-d8	1050000	10.569			
15067-26-2	Acenaphthene-d10	691000	14.421			
1517-22-2	Phenanthrene-d10	1390000	17.162			
1719-03-5	Chrysene-d12	1460000	21.398			
1520-96-3	Perylene-d12	1510000	24.391			

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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MSD	SDG No.:	Q1744
Lab Sample ID:	Q1744-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.05 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
BM049866.D	1	04/08/25 08:59	04/09/25 13:47	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1600		170	370	ug/Kg
108-95-2	Phenol	1900		24.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		27.0	190	ug/Kg
95-57-8	2-Chlorophenol	1900		27.1	190	ug/Kg
95-48-7	2-Methylphenol	2000		33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		41.6	190	ug/Kg
98-86-2	Acetophenone	1800		32.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	2000		45.6	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		52.6	88.7	ug/Kg
67-72-1	Hexachloroethane	1800		19.5	190	ug/Kg
98-95-3	Nitrobenzene	1800		20.3	190	ug/Kg
78-59-1	Isophorone	1900		36.4	190	ug/Kg
88-75-5	2-Nitrophenol	1800		64.6	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		71.9	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		31.4	190	ug/Kg
91-20-3	Naphthalene	1700		25.2	190	ug/Kg
106-47-8	4-Chloroaniline	450		39.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		28.1	190	ug/Kg
105-60-2	Caprolactam	1800		57.8	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		31.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6800	E	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		32.3	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	1800		25.0	190	ug/Kg
88-74-4	2-Nitroaniline	1900		53.4	190	ug/Kg
131-11-3	Dimethylphthalate	1800		30.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MSD	SDG No.:	Q1744
Lab Sample ID:	Q1744-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.05 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
BM049866.D	1	04/08/25 08:59	04/09/25 13:47	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		37.3	190	ug/Kg
99-09-2	3-Nitroaniline	510		51.0	190	ug/Kg
83-32-9	Acenaphthene	1800		23.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3200	E	250	370	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	370	ug/Kg
132-64-9	Dibenzofuran	1700		25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		55.6	190	ug/Kg
84-66-2	Diethylphthalate	1800		31.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		29.6	190	ug/Kg
86-73-7	Fluorene	1800		28.1	190	ug/Kg
100-01-6	4-Nitroaniline	1700		71.2	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		36.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		30.8	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		28.1	190	ug/Kg
1912-24-9	Atrazine	2600		37.7	190	ug/Kg
87-86-5	Pentachlorophenol	3700	E	56.9	370	ug/Kg
85-01-8	Phenanthrene	1800		23.2	190	ug/Kg
120-12-7	Anthracene	1900		36.9	190	ug/Kg
86-74-8	Carbazole	1900		34.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	1800		53.1	190	ug/Kg
206-44-0	Fluoranthene	1900		33.3	190	ug/Kg
129-00-0	Pyrene	1800		39.9	190	ug/Kg
85-68-7	Butylbenzylphthalate	1700		79.2	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	580		40.7	370	ug/Kg
56-55-3	Benzo(a)anthracene	1900		25.5	190	ug/Kg
218-01-9	Chrysene	1900		22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		65.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		96.3	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		21.1	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01MSD	SDG No.:	Q1744
Lab Sample ID:	Q1744-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.05 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
BM049866.D	1	04/08/25 08:59	04/09/25 13:47	PB167509

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2000		24.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	2000		32.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		32.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		30.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		28.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		28.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		50.1	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		30.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		30 (18) - 130 (112)	85%	SPK: 150
13127-88-3	Phenol-d6	130		30 (15) - 130 (107)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.2		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.2		30 (20) - 130 (109)	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		30 (10) - 130 (116)	94%	SPK: 150
1718-51-0	Terphenyl-d14	93.3		30 (10) - 130 (105)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	285000	7.775			
1146-65-2	Naphthalene-d8	1010000	10.569			
15067-26-2	Acenaphthene-d10	664000	14.421			
1517-22-2	Phenanthrene-d10	1340000	17.162			
1719-03-5	Chrysene-d12	1400000	21.397			
1520-96-3	Perylene-d12	1460000	24.391			

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_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 09 04:00:55 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM049848.D 5 =BM049849.D 10 =BM049850.D 20 =BM049851.D 40 =BM049852.D 50 =BM049853.D 60 =BM049854.D 80 =BM0498
55.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.497	0.470	0.501	0.488	0.486	0.471	0.483	0.485	2.47
3)		Pyridine		1.262	1.220	1.322	1.287	1.276	1.278	1.276	1.274	2.40
4)		n-Nitrosodimet...		0.478	0.461	0.496	0.489	0.484	0.500	0.488	0.485	2.67
5)	S	2-Fluorophenol		1.145	1.144	1.213	1.191	1.165	1.210	1.177	1.178	2.40
6)		Aniline		1.304	1.315	1.396	1.325	1.153	1.142	1.154	1.256	8.22
7)	S	Phenol-d6		1.391	1.392	1.523	1.491	1.433	1.543	1.485	1.465	4.15
8)		2-Chlorophenol		1.180	1.191	1.250	1.218	1.174	1.239	1.199	1.207	2.42
9)		Benzaldehyde		0.873	0.830	0.838	0.750	0.712	0.701	0.561	0.752	14.25
10)	C	Phenol		1.376	1.370	1.482	1.441	1.394	1.496	1.451	1.430	3.56
11)		bis(2-Chloroet...		1.113	1.084	1.147	1.135	1.096	1.160	1.114	1.121	2.45
12)		1,3-Dichlorobe...		1.417	1.391	1.475	1.438	1.418	1.441	1.409	1.427	1.90
13)	C	1,4-Dichlorobe...		1.418	1.399	1.488	1.453	1.412	1.455	1.426	1.436	2.15
14)		1,2-Dichlorobe...		1.348	1.325	1.402	1.374	1.324	1.359	1.334	1.352	2.12
15)		Benzyl Alcohol		0.852	0.857	0.950	0.953	0.904	0.993	0.951	0.923	5.79
16)		2,2'-oxybis(1-...		1.268	1.235	1.312	1.267	1.192	1.261	1.214	1.250	3.18
17)		2-Methylphenol		0.858	0.856	0.916	0.891	0.850	0.920	0.877	0.881	3.29
18)		Hexachloroethane		0.505	0.494	0.520	0.504	0.486	0.501	0.488	0.500	2.32
19)	P	n-Nitroso-di-n...	0.760	0.786	0.783	0.860	0.836	0.793	0.859	0.816	0.812	4.60
20)		3+4-Methylphenols		1.140	1.142	1.246	1.224	1.170	1.272	1.215	1.201	4.31
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.463	0.477	0.496	0.498	0.482	0.494	0.493	0.486	2.64
23)	S	Nitrobenzene-d5		0.335	0.344	0.366	0.368	0.361	0.370	0.371	0.359	3.96
24)		Nitrobenzene		0.329	0.329	0.354	0.356	0.345	0.353	0.354	0.346	3.49
25)		Isophorone		0.569	0.568	0.613	0.616	0.598	0.628	0.620	0.602	4.05
26)	C	2-Nitrophenol		0.162	0.165	0.183	0.189	0.190	0.197	0.197	0.183	7.91
27)		2,4-Dimethylph...		0.185	0.194	0.208	0.213	0.212	0.221	0.221	0.208	6.48
28)		bis(2-Chloroet...		0.386	0.386	0.411	0.410	0.399	0.415	0.412	0.403	3.08
29)	C	2,4-Dichloroph...		0.319	0.320	0.348	0.353	0.349	0.364	0.364	0.345	5.45
30)		1,2,4-Trichlor...		0.386	0.380	0.401	0.404	0.399	0.412	0.413	0.399	3.11
31)		Naphthalene		1.004	0.990	1.045	1.042	1.019	1.050	1.045	1.028	2.32
32)		Benzoic acid			0.109	0.175	0.230	0.240	0.283	0.283	0.220	30.63
33)		4-Chloroaniline		0.348	0.351	0.376	0.380	0.359	0.359	0.366	0.363	3.34
34)	C	Hexachlorobuta...		0.238	0.236	0.245	0.249	0.249	0.255	0.258	0.247	3.33
35)		Caprolactam		0.093	0.089	0.100	0.102	0.099	0.107	0.104	0.099	6.29
36)	C	4-Chloro-3-met...		0.277	0.276	0.305	0.309	0.303	0.326	0.321	0.302	6.41
37)		2-Methylnaphth...		0.683	0.685	0.729	0.734	0.721	0.762	0.755	0.724	4.23
38)		1-Methylnaphth...		0.680	0.659	0.711	0.713	0.703	0.739	0.732	0.705	3.97

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM040825.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.664	0.662	0.697	0.706	0.711	0.721	0.737	0.700	4.02
41)	P	Hexachlorocycl...	0.214	0.223	0.247	0.264	0.260	0.258	0.251	0.245	7.86
42)	S	2,4,6-Tribromo...	0.258	0.255	0.280	0.294	0.298	0.323	0.328	0.291	9.94
43)	C	2,4,6-Trichlor...	0.417	0.420	0.444	0.459	0.449	0.459	0.468	0.445	4.46
44)		2,4,5-Trichlor...	0.465	0.452	0.472	0.500	0.483	0.504	0.510	0.484	4.52
45)	S	2-Fluorobiphenyl	1.425	1.414	1.499	1.515	1.486	1.482	1.504	1.475	2.68
46)		1,1'-Biphenyl	1.451	1.429	1.514	1.528	1.480	1.490	1.515	1.487	2.45
47)		2-Chloronaphth...	1.140	1.144	1.188	1.194	1.163	1.162	1.189	1.169	1.88
48)		2-Nitroaniline	0.232	0.242	0.272	0.283	0.281	0.286	0.295	0.270	8.83
49)		Acenaphthylene	1.627	1.613	1.718	1.742	1.711	1.735	1.768	1.702	3.46
50)		Dimethylphthalate	1.366	1.331	1.430	1.438	1.411	1.446	1.455	1.411	3.27
51)		2,6-Dinitrotol...	0.249	0.265	0.303	0.310	0.305	0.317	0.320	0.296	9.38
52)	C	Acenaphthene	1.027	1.023	1.089	1.113	1.089	1.110	1.127	1.083	3.83
53)		3-Nitroaniline	0.236	0.253	0.290	0.310	0.295	0.295	0.321	0.286	10.64
54)	P	2,4-Dinitrophenol		0.097	0.148	0.184	0.194	0.212	0.216	0.175	26.04
55)		Dibenzofuran	1.737	1.709	1.821	1.845	1.815	1.862	1.879	1.810	3.52
56)	P	4-Nitrophenol	0.195	0.213	0.257	0.270	0.273	0.286	0.288	0.255	14.34
57)		2,4-Dinitrotol...	0.309	0.333	0.395	0.421	0.420	0.440	0.443	0.394	13.45
58)		Fluorene	1.354	1.335	1.450	1.481	1.456	1.489	1.505	1.439	4.67
59)		2,3,4,6-Tetrac...	0.418	0.397	0.416	0.427	0.420	0.440	0.452	0.424	4.21
60)		Diethylphthalate	1.311	1.270	1.378	1.390	1.347	1.378	1.397	1.353	3.46
61)		4-Chlorophenyl...	0.699	0.694	0.761	0.789	0.791	0.830	0.836	0.771	7.43
62)		4-Nitroaniline	0.227	0.247	0.301	0.320	0.316	0.327	0.331	0.295	14.02
63)		Azobenzene	1.077	1.085	1.185	1.202	1.167	1.192	1.200	1.158	4.67
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.094	0.119	0.132	0.133	0.138	0.140	0.126	13.60
66)	c	n-Nitrosodiphe...	0.561	0.578	0.606	0.619	0.602	0.610	0.614	0.599	3.54
67)		4-Bromophenyl-...	0.212	0.212	0.227	0.239	0.237	0.247	0.252	0.232	6.83
68)		Hexachlorobenzene	0.249	0.250	0.262	0.273	0.268	0.279	0.284	0.266	5.08
69)		Atrazine	0.186	0.177	0.142	0.130	0.142			0.155	15.89
70)	C	Pentachlorophenol	0.181	0.186	0.191	0.204	0.197	0.204	0.210	0.196	5.46
71)		Phenanthrene	1.031	1.030	1.095	1.133	1.104	1.135	1.147	1.096	4.41
72)		Anthracene	0.997	1.004	1.074	1.125	1.099	1.125	1.140	1.081	5.41
73)		Carbazole	0.922	0.952	1.024	1.059	1.038	1.060	1.071	1.018	5.69
74)		Di-n-butylphth...	1.119	1.120	1.189	1.216	1.176	1.191	1.196	1.172	3.22
75)	C	Fluoranthene	1.187	1.206	1.310	1.387	1.395	1.463	1.488	1.348	8.78
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.319	0.260	0.205	0.403	0.163	0.150	0.357	0.265	36.93
78)		Pyrene	1.310	1.280	1.395	1.408	1.393	1.419	1.443	1.378	4.35
79)	S	Terphenyl-d14	0.988	1.004	1.139	1.187	1.142	1.007	1.004	1.067	7.91
80)		Butylbenzylpht...	0.502	0.500	0.537	0.536	0.511	0.516	0.523	0.518	2.88
81)		Benzo(a)anthra...	1.237	1.226	1.335	1.362	1.345	1.391	1.408	1.329	5.38
82)		3,3'-Dichlorob...	0.428	0.450	0.492	0.526	0.516	0.538	0.565	0.502	9.74
83)		Chrysene	1.179	1.173	1.261	1.292	1.277	1.318	1.346	1.264	5.21
84)		Bis(2-ethylhex...	0.758	0.747	0.790	0.783	0.740	0.727	0.737	0.755	3.16
85)	c	Di-n-octyl pht...	1.291	1.287	1.366	1.362	1.307	1.311	1.316	1.320	2.42

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM040825.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.375	1.368	1.480	1.507	1.523	1.577	1.606	1.491	6.16
88)		Benzo(b)fluora...	1.141	1.157	1.223	1.308	1.313	1.379	1.420	1.277	8.40
89)		Benzo(k)fluora...	1.132	1.122	1.209	1.242	1.263	1.336	1.362	1.238	7.46
90)	C	Benzo(a)pyrene	1.011	1.026	1.096	1.130	1.154	1.209	1.230	1.122	7.50
91)		Dibenzo(a,h)an...	1.128	1.128	1.205	1.244	1.258	1.301	1.331	1.228	6.43
92)		Benzo(g,h,i)pe...	1.178	1.179	1.255	1.265	1.269	1.310	1.328	1.255	4.65

(#) = 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.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: BNA_M Calibration Date/Time: 04/09/2025 09:09

Lab File ID: BM049859.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.178	1.196		1.5	
Benzaldehyde	0.752	0.661		-12.1	
Phenol-d6	1.465	1.508		2.9	
Phenol	1.430	1.460		2.1	20.0
bis(2-Chloroethyl)ether	1.121	1.160		3.5	
2-Chlorophenol	1.207	1.229		1.8	
2-Methylphenol	0.881	0.897		1.8	
2,2-oxybis(1-Chloropropane)	1.250	1.279		2.3	
Acetophenone	0.486	0.499		2.7	
3+4-Methylphenols	1.201	1.214		1.1	
n-Nitroso-di-n-propylamine	0.812	0.846	0.050	4.2	
Nitrobenzene-d5	0.359	0.370		3.1	
Hexachloroethane	0.500	0.504		0.8	
Nitrobenzene	0.346	0.354		2.3	
Isophorone	0.602	0.610		1.3	
2-Nitrophenol	0.183	0.186		1.6	20.0
2,4-Dimethylphenol	0.208	0.214		2.9	
bis(2-Chloroethoxy)methane	0.403	0.417		3.5	
2,4-Dichlorophenol	0.345	0.348		0.9	20.0
Naphthalene	1.028	1.045		1.7	
4-Chloroaniline	0.363	0.379		4.4	
Hexachlorobutadiene	0.247	0.252		2.0	20.0
Caprolactam	0.099	0.097		-2.0	
4-Chloro-3-methylphenol	0.302	0.306		1.3	20.0
2-Methylnaphthalene	0.724	0.748		3.3	
Hexachlorocyclopentadiene	0.245	0.263	0.050	7.3	
2,4,6-Trichlorophenol	0.445	0.457		2.7	20.0
2-Fluorobiphenyl	1.475	1.541		4.5	
2,4,5-Trichlorophenol	0.484	0.490		1.2	
1,1-Biphenyl	1.487	1.543		3.8	
2-Chloronaphthalene	1.169	1.198		2.5	
2-Nitroaniline	0.270	0.281		4.1	
Dimethylphthalate	1.411	1.453		3.0	
Acenaphthylene	1.702	1.748		2.7	
2,6-Dinitrotoluene	0.296	0.310		4.7	
3-Nitroaniline	0.286	0.305		6.6	
Acenaphthene	1.083	1.114		2.9	20.0
2,4-Dinitrophenol	0.175	0.181	0.050	3.4	
4-Nitrophenol	0.255	0.271	0.050	6.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: BNA_M Calibration Date/Time: 04/09/2025 09:09

Lab File ID: BM049859.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.810	1.863		2.9	
2,4-Dinitrotoluene	0.394	0.418		6.1	
Diethylphthalate	1.353	1.394		3.0	
4-Chlorophenyl-phenylether	0.771	0.808		4.8	
Fluorene	1.439	1.500		4.2	
4-Nitroaniline	0.295	0.317		7.5	
4,6-Dinitro-2-methylphenol	0.126	0.128		1.6	
n-Nitrosodiphenylamine	0.599	0.620		3.5	20.0
2,4,6-Tribromophenol	0.291	0.294		1.0	
4-Bromophenyl-phenylether	0.232	0.238		2.6	
Hexachlorobenzene	0.266	0.274		3.0	
Atrazine	0.155	0.137		-11.6	
Pentachlorophenol	0.196	0.192		-2.0	20.0
Phenanthrene	1.096	1.136		3.7	
Anthracene	1.081	1.120		3.6	
Carbazole	1.018	1.055		3.6	
Di-n-butylphthalate	1.172	1.208		3.1	
Fluoranthene	1.348	1.391		3.2	20.0
Pyrene	1.378	1.446		4.9	
Terphenyl-d14	1.067	1.223		14.6	
Butylbenzylphthalate	0.518	0.527		1.7	
3,3-Dichlorobenzidine	0.502	0.507		1.0	
Benzo(a)anthracene	1.329	1.372		3.2	
Chrysene	1.264	1.297		2.6	
Bis(2-ethylhexyl)phthalate	0.755	0.791		4.8	
Di-n-octyl phthalate	1.320	1.321		0.1	20.0
Benzo(b)fluoranthene	1.277	1.298		1.6	
Benzo(k)fluoranthene	1.238	1.290		4.2	
Benzo(a)pyrene	1.122	1.138		1.4	20.0
Indeno(1,2,3-cd)pyrene	1.491	1.514		1.5	
Dibenzo(a,h)anthracene	1.228	1.243		1.2	
Benzo(g,h,i)perylene	1.255	1.265		0.8	
1,2,4,5-Tetrachlorobenzene	0.700	0.722		3.1	
1,4-Dioxane	0.485	0.491		1.2	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.427		0.7	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: BNA_M Calibration Date/Time: 04/10/2025 09:32

Lab File ID: BM049876.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.178	1.166		-1.0	
Benzaldehyde	0.752	0.687		-8.6	
Phenol-d6	1.465	1.437		-1.9	
Phenol	1.430	1.404		-1.8	20.0
bis(2-Chloroethyl)ether	1.121	1.103		-1.6	
2-Chlorophenol	1.207	1.188		-1.6	
2-Methylphenol	0.881	0.857		-2.7	
2,2-oxybis(1-Chloropropane)	1.250	1.227		-1.8	
Acetophenone	0.486	0.492		1.2	
3+4-Methylphenols	1.201	1.171		-2.5	
n-Nitroso-di-n-propylamine	0.812	0.797	0.050	-1.8	
Nitrobenzene-d5	0.359	0.367		2.2	
Hexachloroethane	0.500	0.490		-2.0	
Nitrobenzene	0.346	0.348		0.6	
Isophorone	0.602	0.607		0.8	
2-Nitrophenol	0.183	0.190		3.8	20.0
2,4-Dimethylphenol	0.208	0.213		2.4	
bis(2-Chloroethoxy)methane	0.403	0.407		1.0	
2,4-Dichlorophenol	0.345	0.354		2.6	20.0
Naphthalene	1.028	1.040		1.2	
4-Chloroaniline	0.363	0.372		2.5	
Hexachlorobutadiene	0.247	0.257		4.0	20.0
Caprolactam	0.099	0.097		-2.0	
4-Chloro-3-methylphenol	0.302	0.304		0.7	20.0
2-Methylnaphthalene	0.724	0.739		2.1	
Hexachlorocyclopentadiene	0.245	0.267	0.050	9.0	
2,4,6-Trichlorophenol	0.445	0.462		3.8	20.0
2-Fluorobiphenyl	1.475	1.523		3.3	
2,4,5-Trichlorophenol	0.484	0.499		3.1	
1,1-Biphenyl	1.487	1.523		2.4	
2-Chloronaphthalene	1.169	1.192		2.0	
2-Nitroaniline	0.270	0.275		1.9	
Dimethylphthalate	1.411	1.436		1.8	
Acenaphthylene	1.702	1.738		2.1	
2,6-Dinitrotoluene	0.296	0.308		4.1	
3-Nitroaniline	0.286	0.303		5.9	
Acenaphthene	1.083	1.105		2.0	20.0
2,4-Dinitrophenol	0.175	0.186	0.050	6.3	
4-Nitrophenol	0.255	0.263	0.050	3.1	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: BNA_M Calibration Date/Time: 04/10/2025 09:32

Lab File ID: BM049876.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.810	1.845		1.9	
2,4-Dinitrotoluene	0.394	0.418		6.1	
Diethylphthalate	1.353	1.368		1.1	
4-Chlorophenyl-phenylether	0.771	0.783		1.6	
Fluorene	1.439	1.462		1.6	
4-Nitroaniline	0.295	0.311		5.4	
4,6-Dinitro-2-methylphenol	0.126	0.129		2.4	
n-Nitrosodiphenylamine	0.599	0.614		2.5	20.0
2,4,6-Tribromophenol	0.291	0.295		1.4	
4-Bromophenyl-phenylether	0.232	0.240		3.4	
Hexachlorobenzene	0.266	0.274		3.0	
Atrazine	0.155	0.167		7.7	
Pentachlorophenol	0.196	0.195		-0.5	20.0
Phenanthrene	1.096	1.123		2.5	
Anthracene	1.081	1.111		2.8	
Carbazole	1.018	1.043		2.5	
Di-n-butylphthalate	1.172	1.210		3.2	
Fluoranthene	1.348	1.368		1.5	20.0
Pyrene	1.378	1.448		5.1	
Terphenyl-d14	1.067	1.192		11.7	
Butylbenzylphthalate	0.518	0.545		5.2	
3,3-Dichlorobenzidine	0.502	0.524		4.4	
Benzo(a)anthracene	1.329	1.351		1.7	
Chrysene	1.264	1.292		2.2	
Bis(2-ethylhexyl)phthalate	0.755	0.777		2.9	
Di-n-octyl phthalate	1.320	1.367		3.6	20.0
Benzo(b)fluoranthene	1.277	1.267		-0.8	
Benzo(k)fluoranthene	1.238	1.241		0.2	
Benzo(a)pyrene	1.122	1.131		0.8	20.0
Indeno(1,2,3-cd)pyrene	1.491	1.512		1.4	
Dibenzo(a,h)anthracene	1.228	1.240		1.0	
Benzo(g,h,i)perylene	1.255	1.269		1.1	
1,2,4,5-Tetrachlorobenzene	0.700	0.726		3.7	
1,4-Dioxane	0.485	0.475		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.428		0.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: BNA_M Calibration Date/Time: 04/16/2025 09:28

Lab File ID: BM049944.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.178	1.130		-4.1	
Benzaldehyde	0.752	1.425		89.5	
Phenol-d6	1.465	1.430		-2.4	
Phenol	1.430	1.390		-2.8	20.0
bis(2-Chloroethyl)ether	1.121	1.132		1.0	
2-Chlorophenol	1.207	1.170		-3.1	
2-Methylphenol	0.881	0.869		-1.4	
2,2-oxybis(1-Chloropropane)	1.250	1.250		0.0	
Acetophenone	0.486	0.466		-4.1	
3+4-Methylphenols	1.201	1.188		-1.1	
n-Nitroso-di-n-propylamine	0.812	0.823	0.050	1.4	
Nitrobenzene-d5	0.359	0.349		-2.8	
Hexachloroethane	0.500	0.476		-4.8	
Nitrobenzene	0.346	0.333		-3.8	
Isophorone	0.602	0.598		-0.7	
2-Nitrophenol	0.183	0.184		0.5	20.0
2,4-Dimethylphenol	0.208	0.207		-0.5	
bis(2-Chloroethoxy)methane	0.403	0.396		-1.7	
2,4-Dichlorophenol	0.345	0.338		-2.0	20.0
Naphthalene	1.028	0.990		-3.7	
4-Chloroaniline	0.363	0.343		-5.5	
Hexachlorobutadiene	0.247	0.242		-2.0	20.0
Caprolactam	0.099	0.097		-2.0	
4-Chloro-3-methylphenol	0.302	0.302		0.0	20.0
2-Methylnaphthalene	0.724	0.714		-1.4	
Hexachlorocyclopentadiene	0.245	0.207	0.050	-15.5	
2,4,6-Trichlorophenol	0.445	0.441		-0.9	20.0
2-Fluorobiphenyl	1.475	1.434		-2.8	
2,4,5-Trichlorophenol	0.484	0.481		-0.6	
1,1-Biphenyl	1.487	1.435		-3.5	
2-Chloronaphthalene	1.169	1.113		-4.8	
2-Nitroaniline	0.270	0.275		1.9	
Dimethylphthalate	1.411	1.396		-1.1	
Acenaphthylene	1.702	1.657		-2.6	
2,6-Dinitrotoluene	0.296	0.304		2.7	
3-Nitroaniline	0.286	0.287		0.3	
Acenaphthene	1.083	1.048		-3.2	20.0
2,4-Dinitrophenol	0.175	0.173	0.050	-1.1	
4-Nitrophenol	0.255	0.247	0.050	-3.1	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: BNA_M Calibration Date/Time: 04/16/2025 09:28

Lab File ID: BM049944.D Init. Calib. Date(s): 04/08/2025 04/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:35 20:07

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.810	1.768		-2.3	
2,4-Dinitrotoluene	0.394	0.416		5.6	
Diethylphthalate	1.353	1.343		-0.7	
4-Chlorophenyl-phenylether	0.771	0.772		0.1	
Fluorene	1.439	1.410		-2.0	
4-Nitroaniline	0.295	0.296		0.3	
4,6-Dinitro-2-methylphenol	0.126	0.121		-4.0	
n-Nitrosodiphenylamine	0.599	0.573		-4.3	20.0
2,4,6-Tribromophenol	0.291	0.301		3.4	
4-Bromophenyl-phenylether	0.232	0.231		-0.4	
Hexachlorobenzene	0.266	0.264		-0.8	
Atrazine	0.155	0.191		23.2	
Pentachlorophenol	0.196	0.179		-8.7	20.0
Phenanthrene	1.096	1.053		-3.9	
Anthracene	1.081	1.050		-2.9	
Carbazole	1.018	0.972		-4.5	
Di-n-butylphthalate	1.172	1.152		-1.7	
Fluoranthene	1.348	1.334		-1.0	20.0
Pyrene	1.378	1.390		0.9	
Terphenyl-d14	1.067	1.150		7.8	
Butylbenzylphthalate	0.518	0.514		-0.8	
3,3-Dichlorobenzidine	0.502	0.446		-11.2	
Benzo(a)anthracene	1.329	1.294		-2.6	
Chrysene	1.264	1.209		-4.4	
Bis(2-ethylhexyl)phthalate	0.755	0.731		-3.2	
Di-n-octyl phthalate	1.320	1.247		-5.5	20.0
Benzo(b)fluoranthene	1.277	1.237		-3.1	
Benzo(k)fluoranthene	1.238	1.213		-2.0	
Benzo(a)pyrene	1.122	1.079		-3.8	20.0
Indeno(1,2,3-cd)pyrene	1.491	1.332		-10.7	
Dibenzo(a,h)anthracene	1.228	1.092		-11.1	
Benzo(g,h,i)perylene	1.255	1.086		-13.5	
1,2,4,5-Tetrachlorobenzene	0.700	0.678		-3.1	
1,4-Dioxane	0.485	0.447		-7.8	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.416		-1.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Time: Apr 09 13:05:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

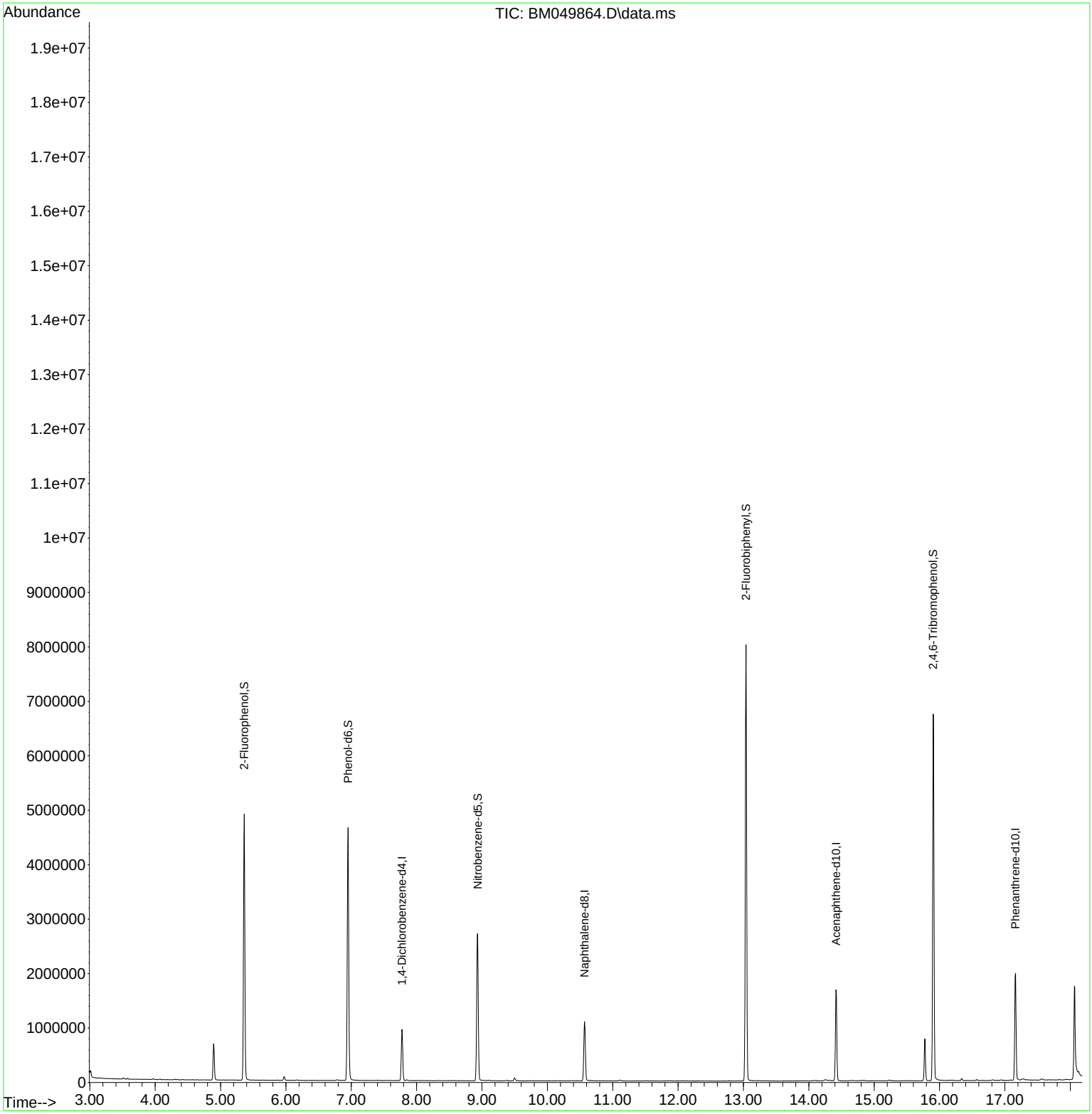
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	270450	20.000	ng		0.00
21) Naphthalene-d8	10.569	136	926727	20.000	ng		0.00
39) Acenaphthene-d10	14.416	164	601767	20.000	ng		0.00
64) Phenanthrene-d10	17.163	188	1216375	20.000	ng		0.00
76) Chrysene-d12	21.398	240	1277210	20.000	ng		0.00
86) Perylene-d12	24.391	264	1378204	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2159201	135.570	ng		0.00
7) Phenol-d6	6.951	99	2699671	136.237	ng		0.00
23) Nitrobenzene-d5	8.934	82	1587724	95.403	ng		0.00
42) 2,4,6-Tribromophenol	15.904	330	1347067	153.899	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	4184517	94.293	ng		0.00
79) Terphenyl-d14	19.786	244	7257247	106.486	ng		0.00
Target Compounds							Qvalue
81) Benzo(a)anthracene	21.380	228	187777	2.212	ng		99
83) Chrysene	21.439	228	343227	4.253	ng		99
88) Benzo(b)fluoranthene	23.444	252	385800	4.383	ng		99
89) Benzo(k)fluoranthene	23.503	252	369571	4.333	ng	#	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

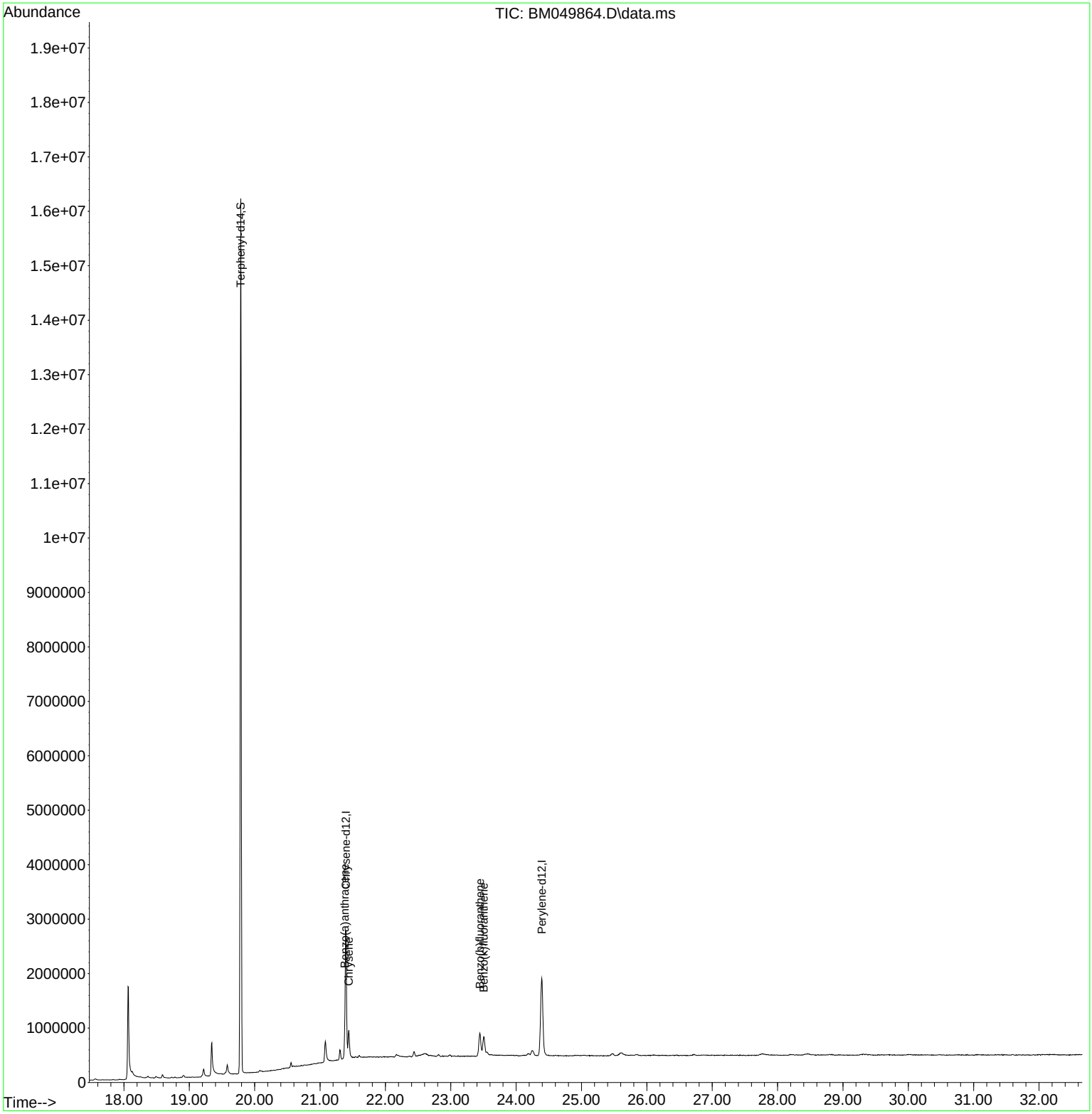
Quant Time: Apr 09 13:05:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

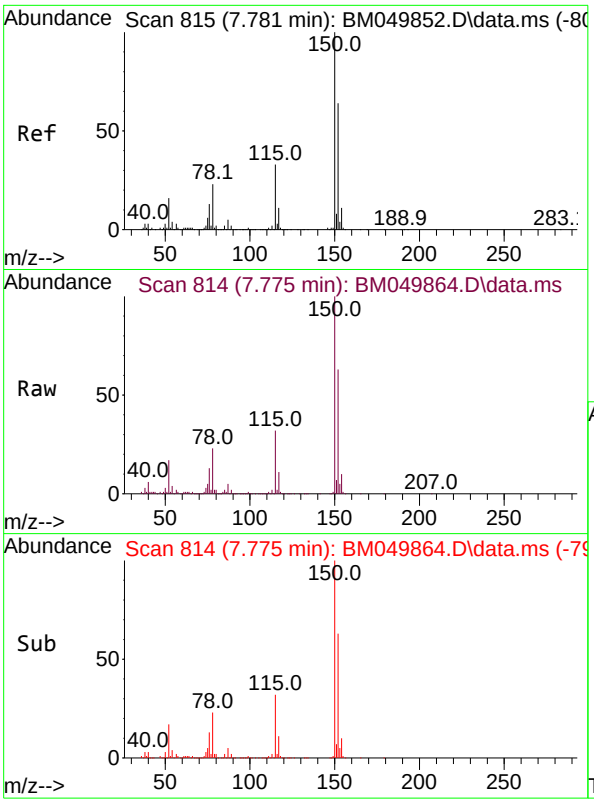


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Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Time: Apr 09 13:05:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



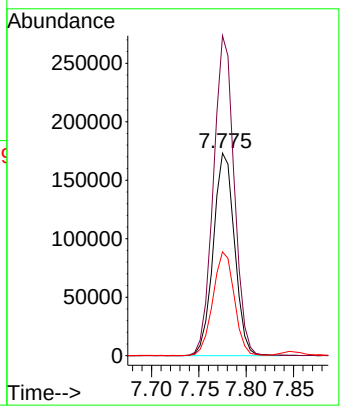


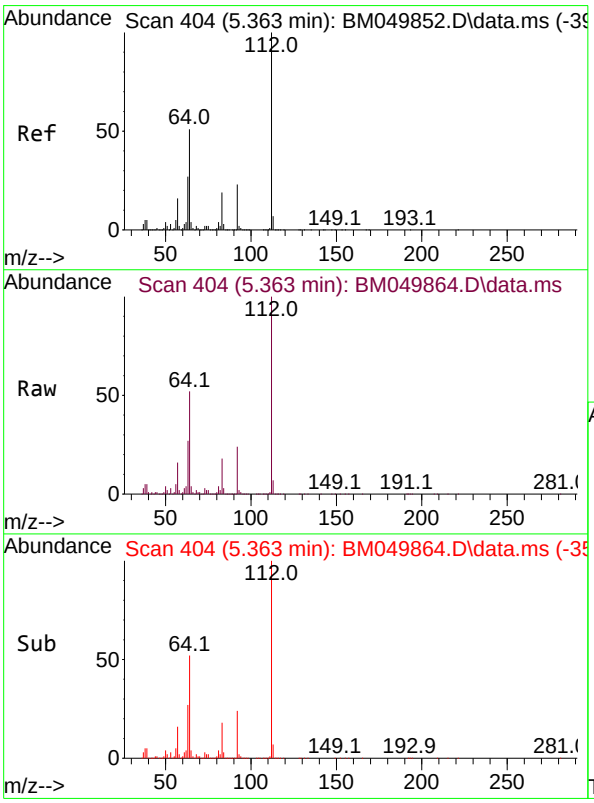
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion:152 Resp: 270450

Ion	Ratio	Lower	Upper
152	100		
150	158.0	124.3	186.5
115	51.3	41.1	61.7

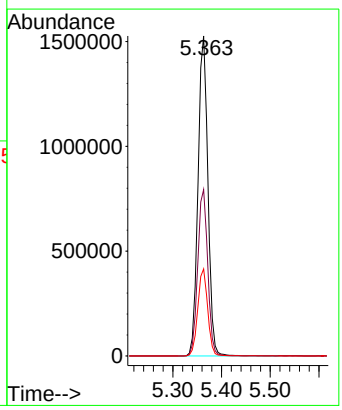


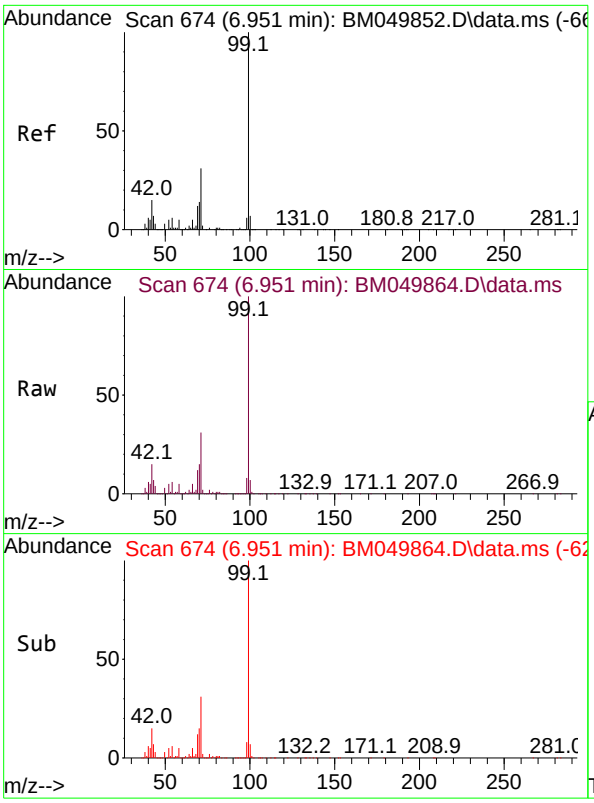


#5
2-Fluorophenol
Concen: 135.570 ng
RT: 5.363 min Scan# 404
Delta R.T. 0.000 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:112 Resp: 2159201

Ion	Ratio	Lower	Upper
112	100		
64	52.0	41.0	61.6
63	27.2	21.5	32.3



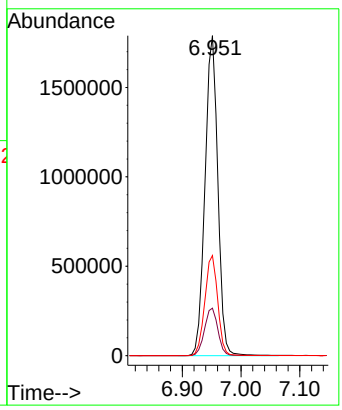


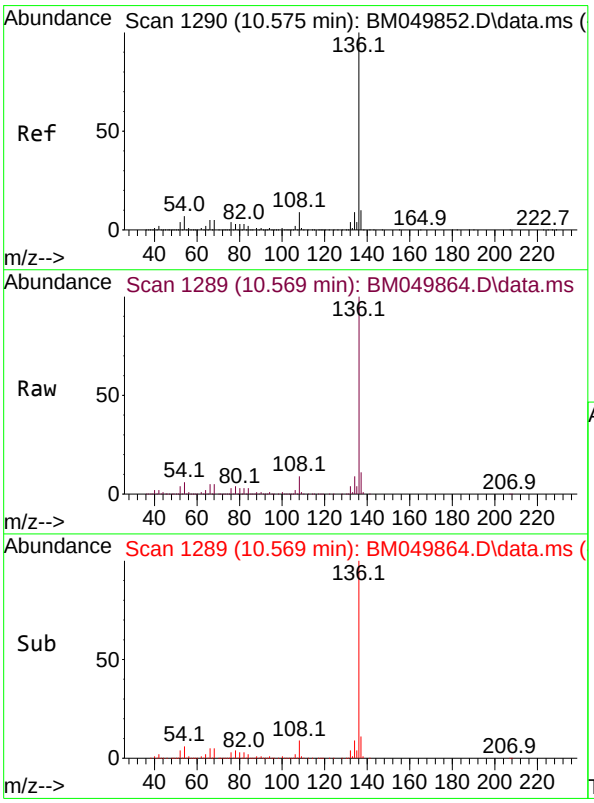
#7
Phenol-d6
Concen: 136.237 ng
RT: 6.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion: 99 Resp: 2699671

Ion	Ratio	Lower	Upper
99	100		
42	14.9	12.1	18.1
71	31.3	24.9	37.3

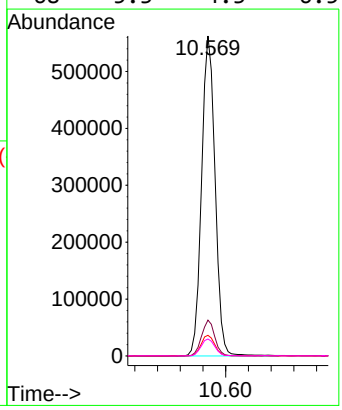


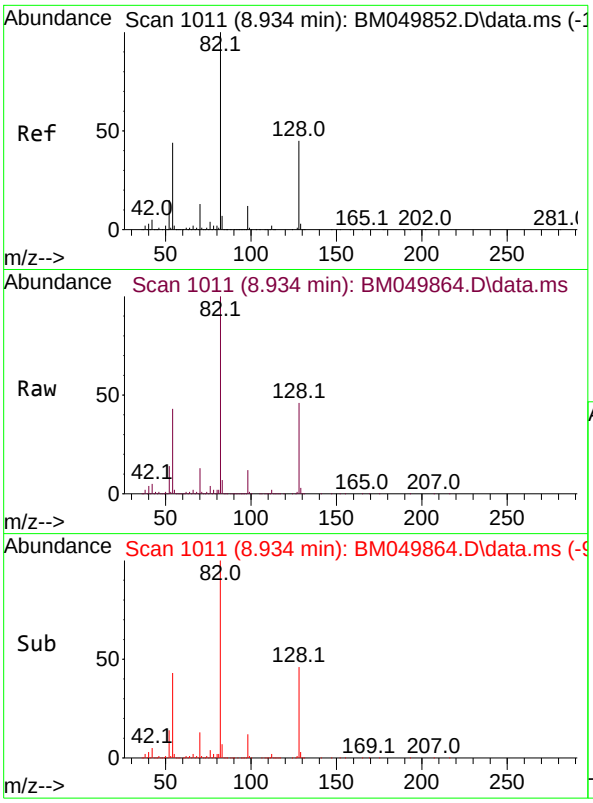


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:136 Resp: 926727

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.4	12.6
54	6.4	5.3	7.9
68	5.3	4.3	6.5



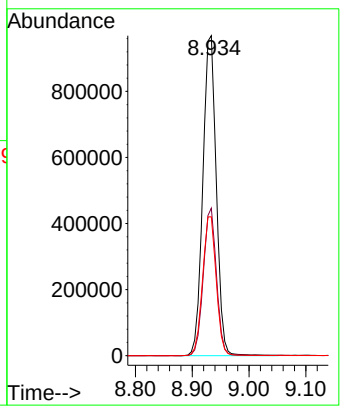


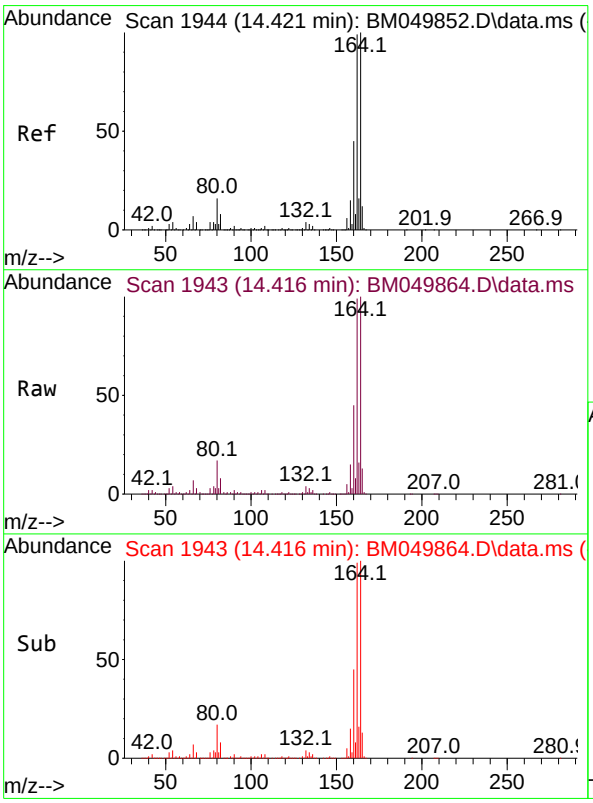
#23
Nitrobenzene-d5
Concen: 95.403 ng
RT: 8.934 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion: 82 Resp: 1587724

Ion	Ratio	Lower	Upper
82	100		
128	46.1	36.2	54.2
54	43.4	35.0	52.6

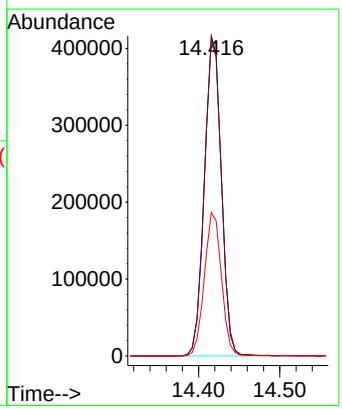


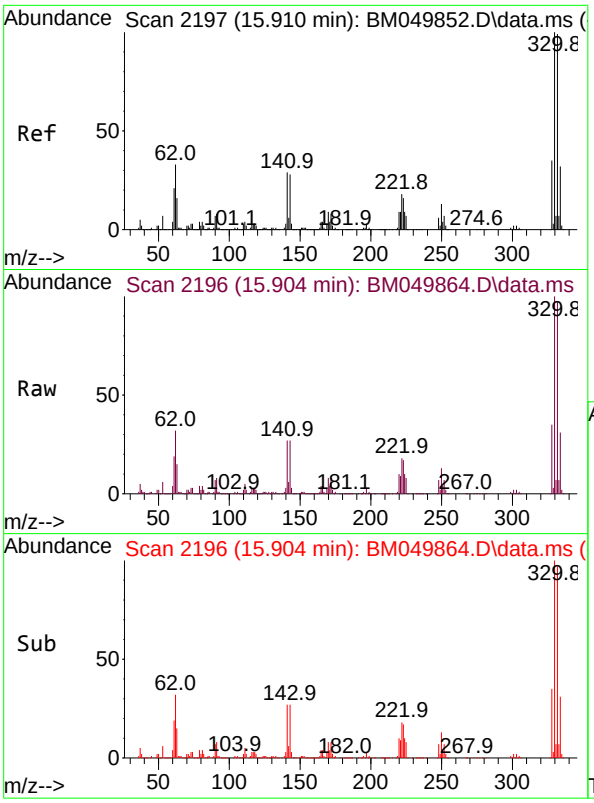


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:164 Resp: 601767

Ion	Ratio	Lower	Upper
164	100		
162	98.9	79.4	119.0
160	44.8	36.2	54.2



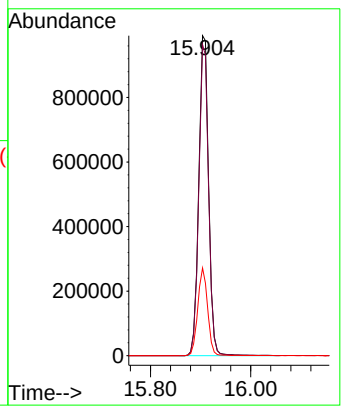


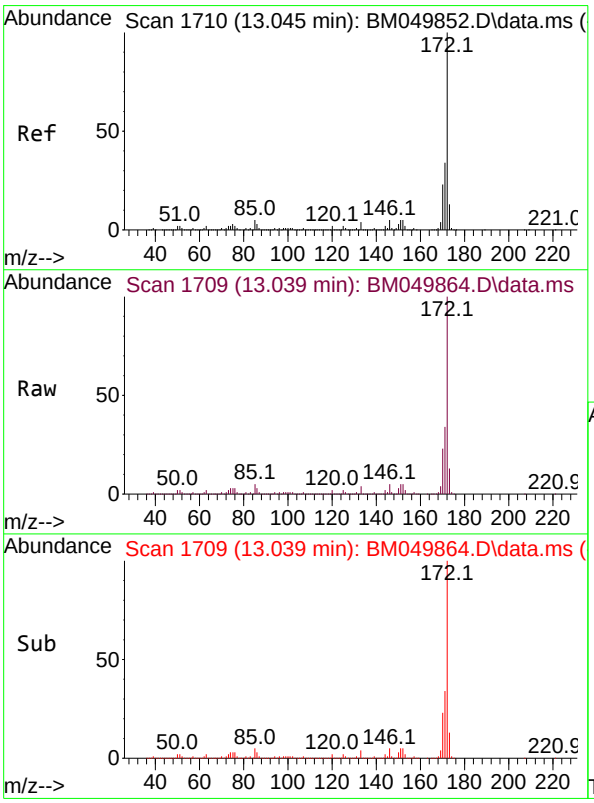
#42
2,4,6-Tribromophenol
Concen: 153.899 ng
RT: 15.904 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion:330 Resp: 1347067

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.0	117.0
141	27.4	23.5	35.3

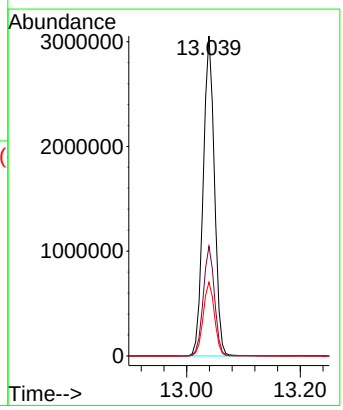


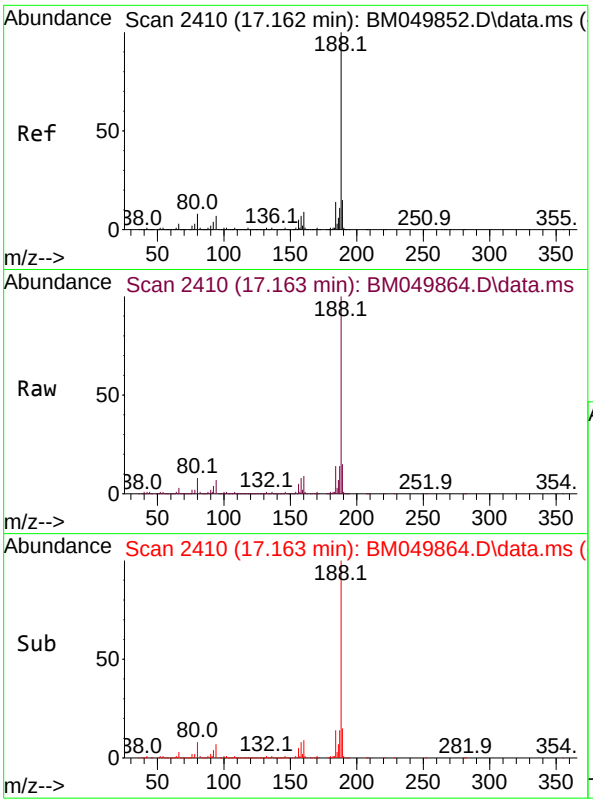


#45
2-Fluorobiphenyl
Concen: 94.293 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:172 Resp: 4184517

Ion	Ratio	Lower	Upper
172	100		
171	34.3	27.4	41.2
170	23.1	18.6	28.0



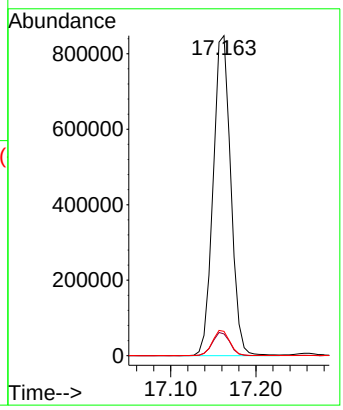


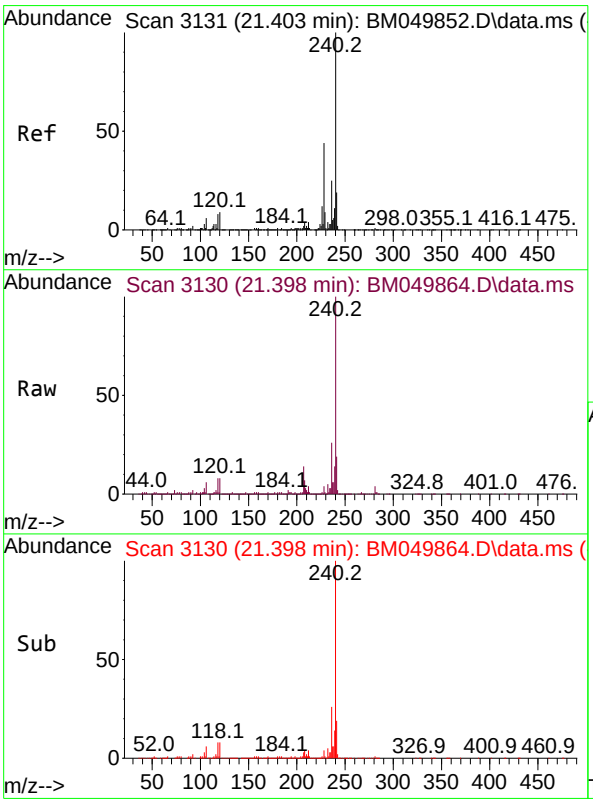
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.163 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion:188 Resp: 1216375

Ion	Ratio	Lower	Upper
188	100		
94	6.8	5.8	8.6
80	7.6	6.4	9.6

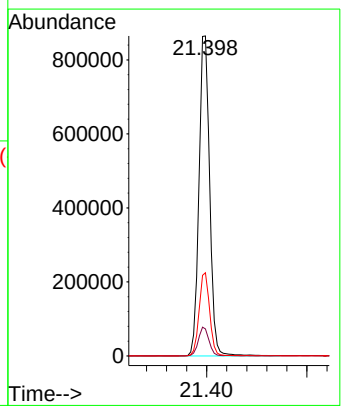


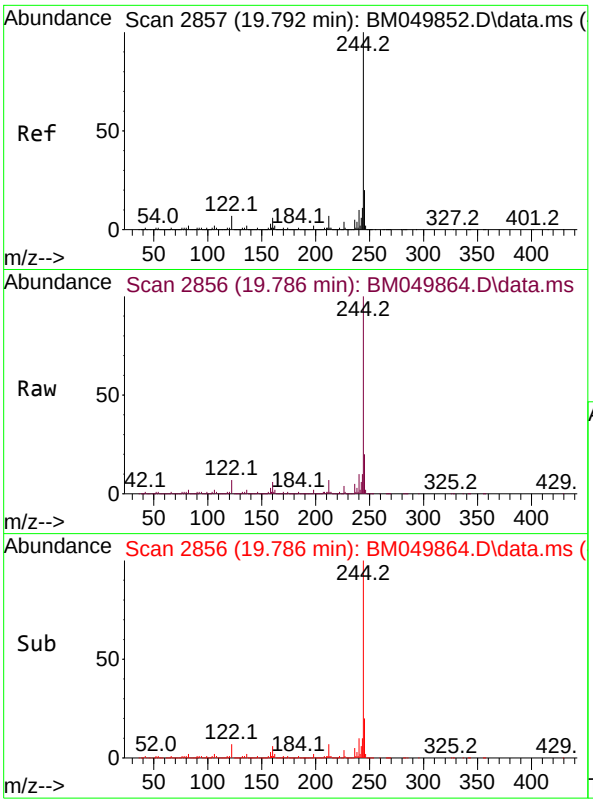


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.398 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:240 Resp: 1277210

Ion	Ratio	Lower	Upper
240	100		
120	8.4	6.9	10.3
236	26.0	20.4	30.6



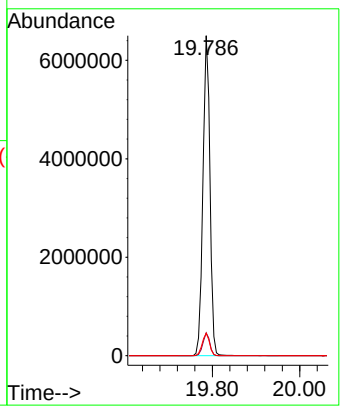


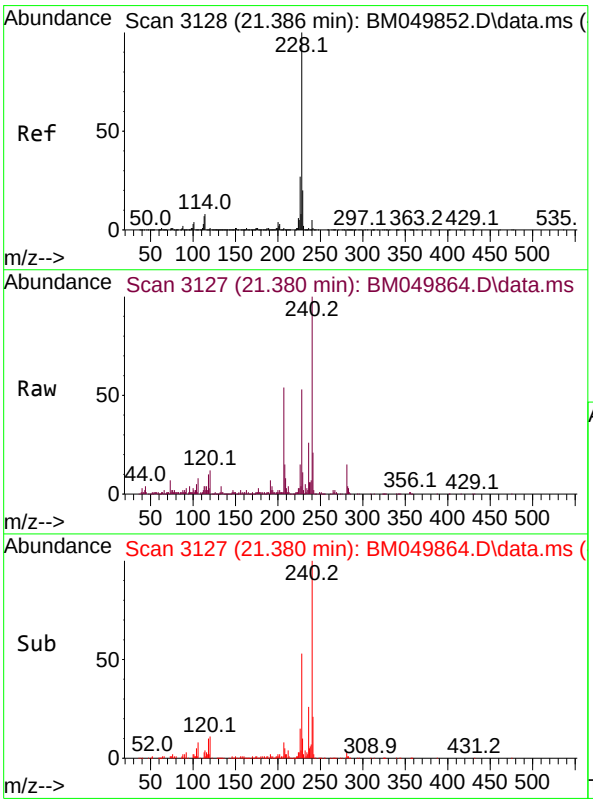
#79
Terphenyl-d14
Concen: 106.486 ng
RT: 19.786 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion:244 Resp: 7257247

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	7.0	5.4	8.0

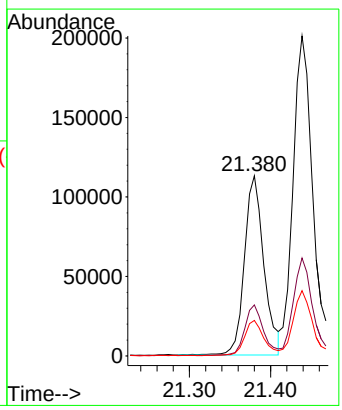


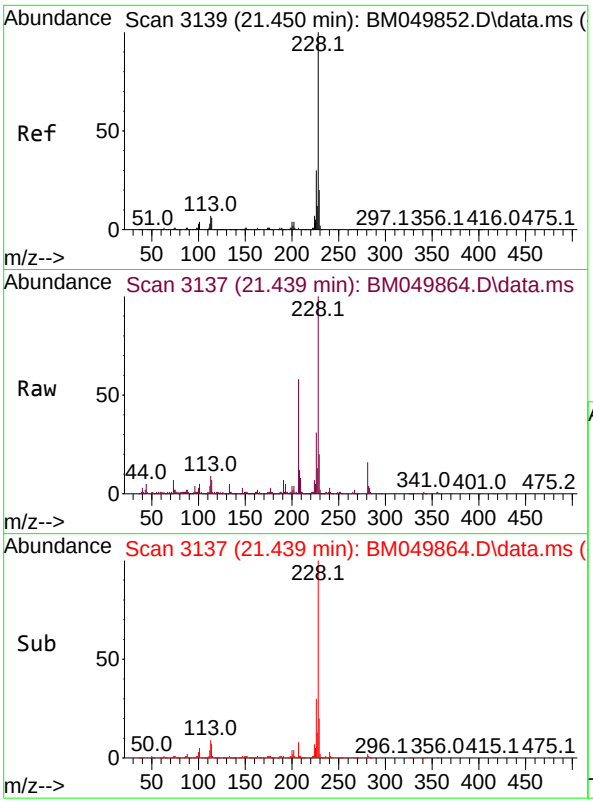


#81
Benzo(a)anthracene
Concen: 2.212 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.006 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:228 Resp: 187777

Ion	Ratio	Lower	Upper
228	100		
226	28.3	21.8	32.8
229	19.8	15.8	23.8



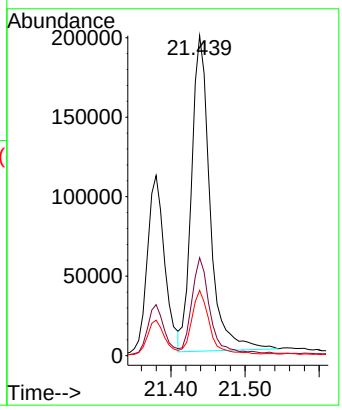


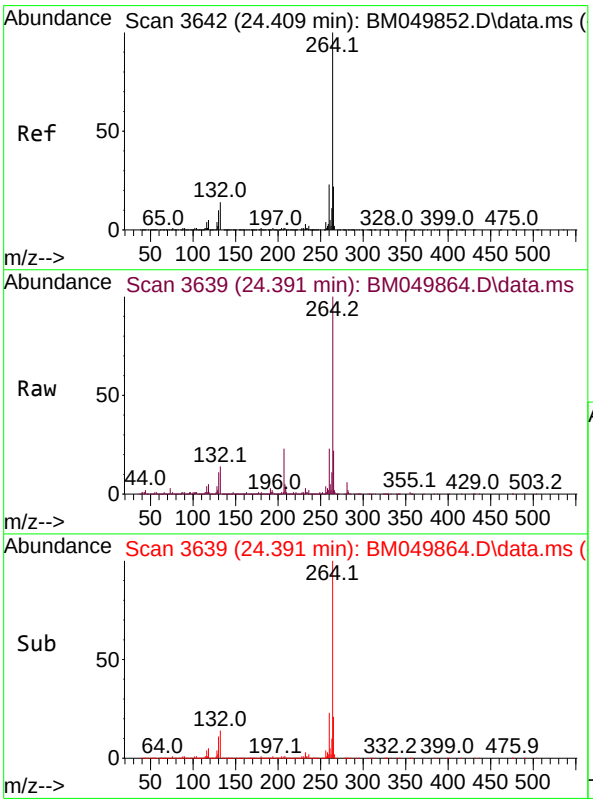
#83
Chrysene
Concen: 4.253 ng
RT: 21.439 min Scan# 3
Delta R.T. -0.012 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion:228 Resp: 343227

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.1	36.1
229	20.4	15.8	23.6

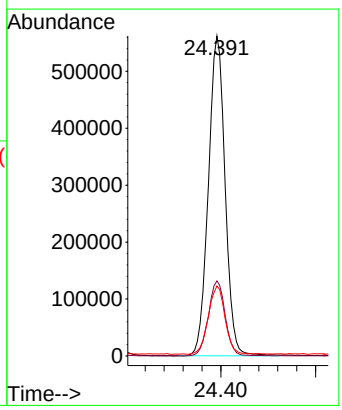


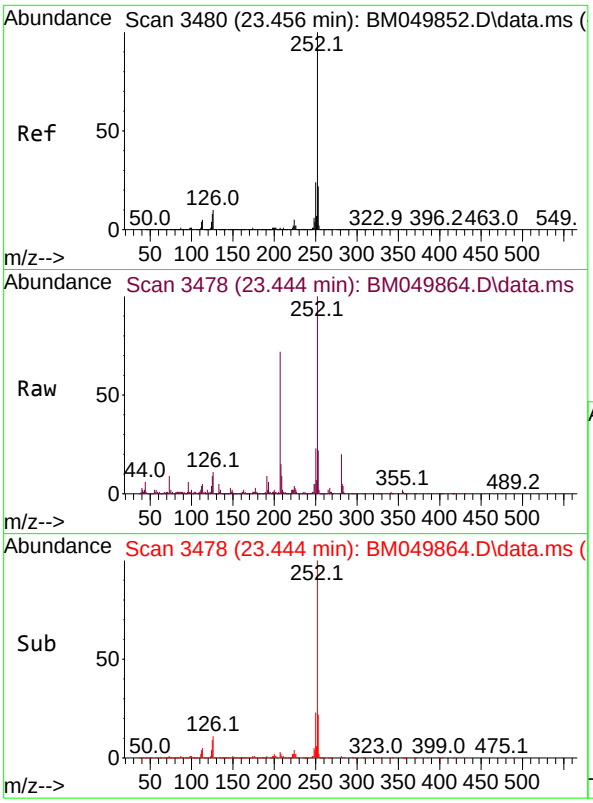


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.391 min Scan# 3639
Delta R.T. -0.018 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:264 Resp: 1378204

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.9	17.8	26.8



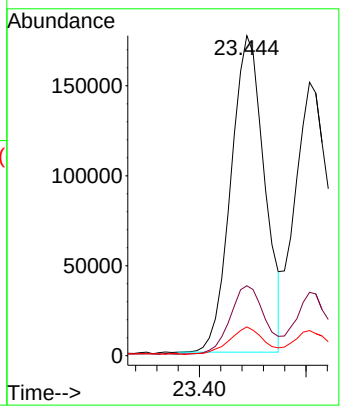


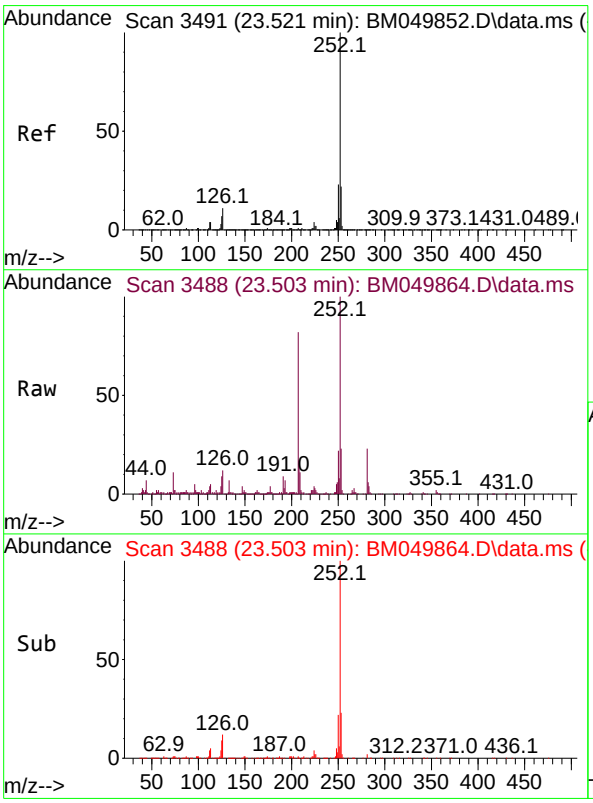
#88
Benzo(b)fluoranthene
Concen: 4.383 ng
RT: 23.444 min Scan# 34
Delta R.T. -0.012 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Tgt Ion:252 Resp: 385800

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.0	6.2	9.4

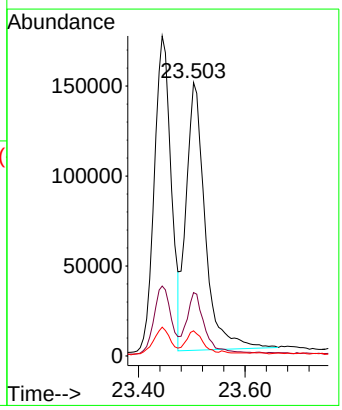




#89
Benzo(k)fluoranthene
Concen: 4.333 ng
RT: 23.503 min Scan# 3488
Delta R.T. -0.018 min
Lab File: BM049864.D
Acq: 09 Apr 2025 12:29

Tgt Ion:252 Resp: 369571

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.2
125	9.2	5.8	8.8#



Sample Results: **BM049864.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-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_M\Methods\8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM049864.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.893	319	324	332	rBV	667512	930708	5.17%	1.135%
2	5.363	397	404	414	rBV	4891736	6962372	38.69%	8.493%
3	6.951	666	674	693	rBV	4648372	7222734	40.14%	8.811%
4	7.775	808	814	823	rVB	937433	1445836	8.03%	1.764%
5	8.934	1003	1011	1021	rBV	2706636	4449702	24.73%	5.428%
6	10.569	1282	1289	1300	rBV	1092686	1815835	10.09%	2.215%
7	13.039	1700	1709	1723	rBV	8016754	11115762	61.77%	13.560%
8	14.416	1936	1943	1952	rBV	1671923	2445087	13.59%	2.983%
9	15.774	2168	2174	2182	rBV	768888	994154	5.52%	1.213%
10	15.904	2189	2196	2212	rBV	6735718	9146088	50.83%	11.157%
11	17.163	2403	2410	2416	rBV2	1966681	2836889	15.77%	3.461%
12	18.062	2557	2563	2573	rBV	1700508	2699372	15.00%	3.293%
13	19.221	2753	2760	2765	rBV	138377	237214	1.32%	0.289%
14	19.345	2776	2781	2800	rBV	600872	1155316	6.42%	1.409%
15	19.580	2817	2821	2831	rVB	164594	261474	1.45%	0.319%
16	19.786	2851	2856	2865	rBV	16050903	17994548	100.00%	21.951%
17	21.080	3072	3076	3087	rBV3	374938	714671	3.97%	0.872%
18	21.303	3111	3114	3119	rBV	172272	213906	1.19%	0.261%
19	21.392	3123	3129	3134	rVV	2352052	3729378	20.73%	4.549%
20	21.439	3134	3137	3146	rVB	502292	792408	4.40%	0.967%
21	23.444	3473	3478	3484	rBV	370349	743115	4.13%	0.906%
22	23.503	3484	3488	3494	rVB	288013	552272	3.07%	0.674%
23	24.391	3631	3639	3652	rVB	1408334	3517688	19.55%	4.291%

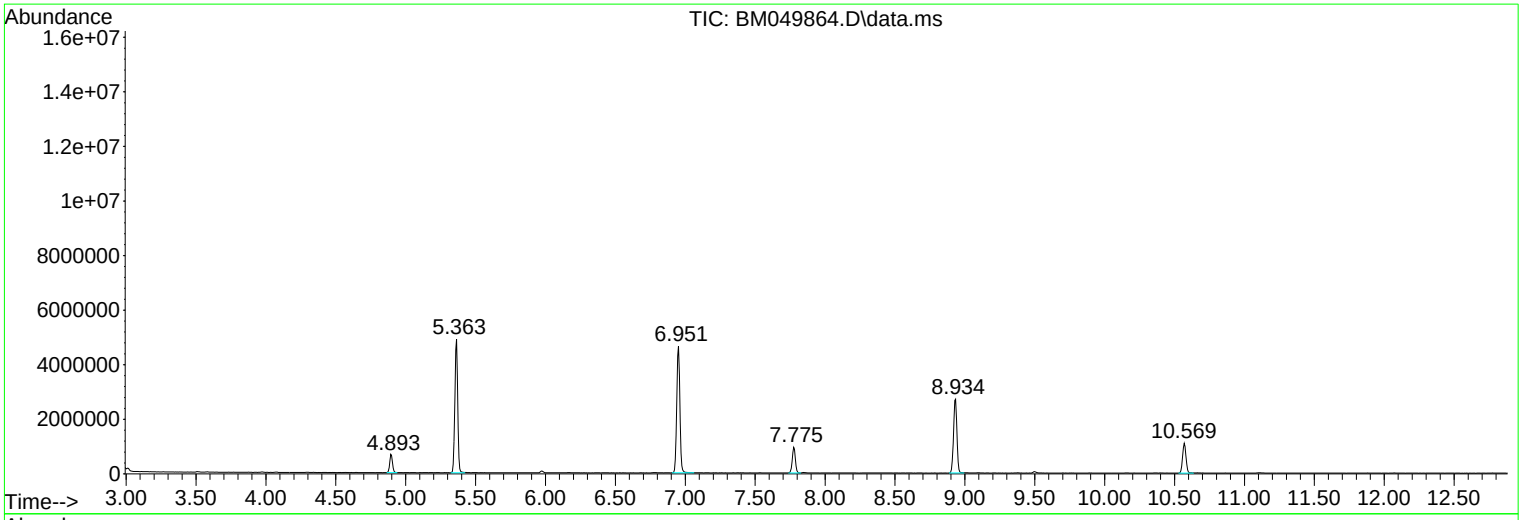
Sum of corrected areas: 81976529

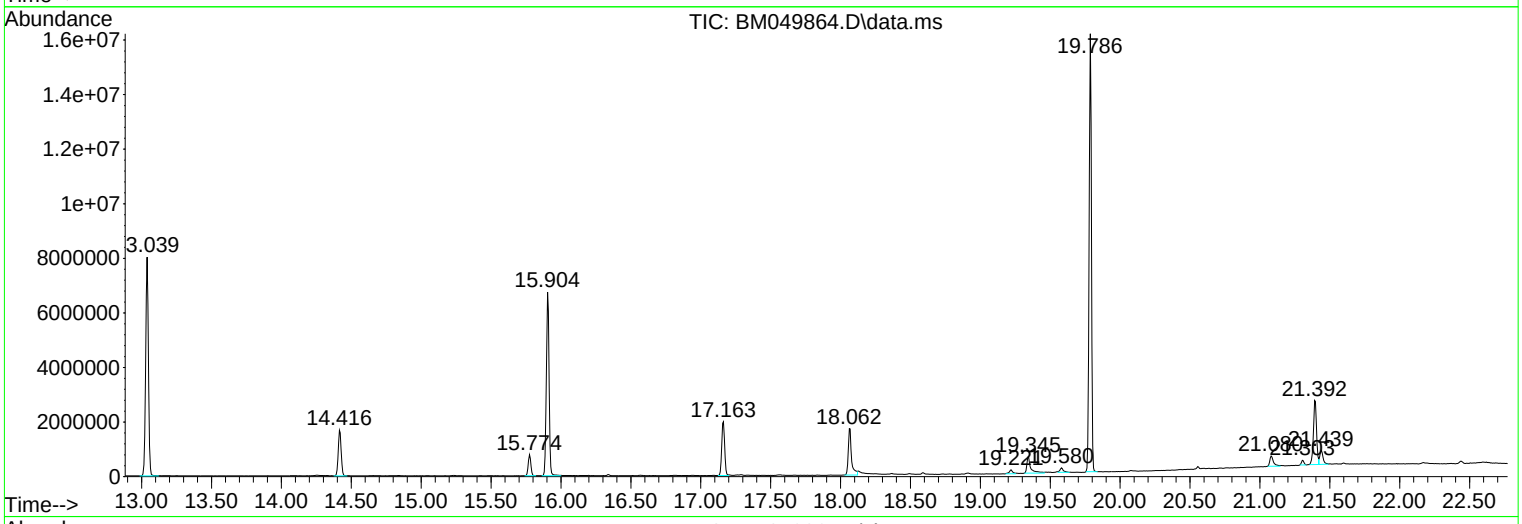
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

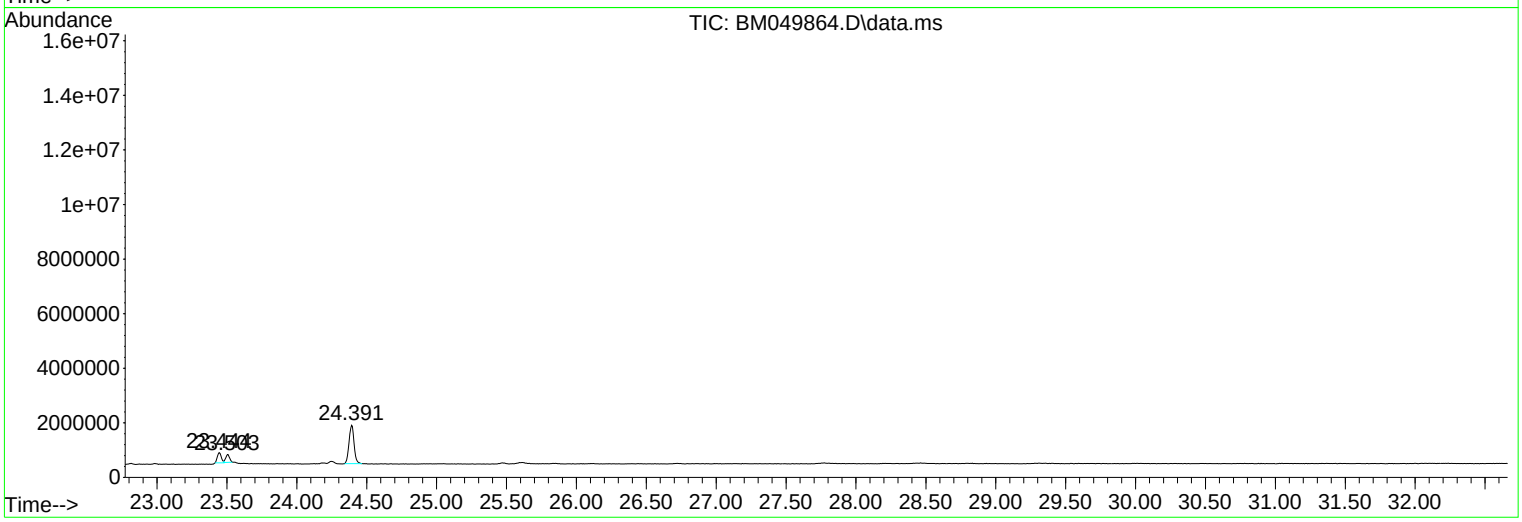
Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.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_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

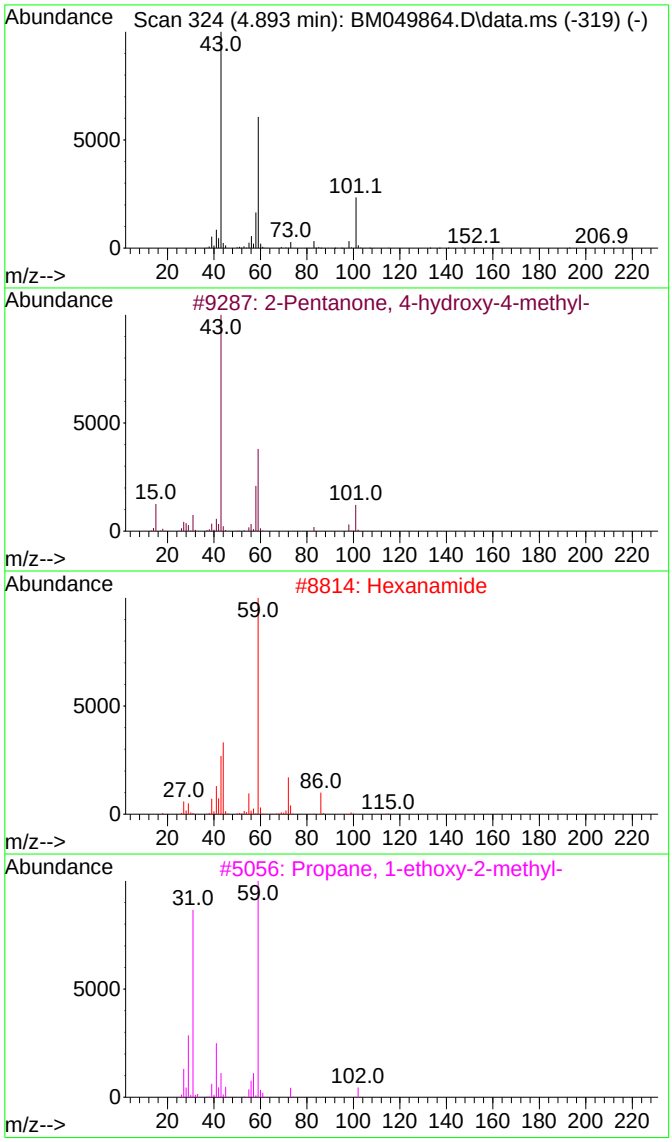
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TIC Integration Parameters: LSCINT.P

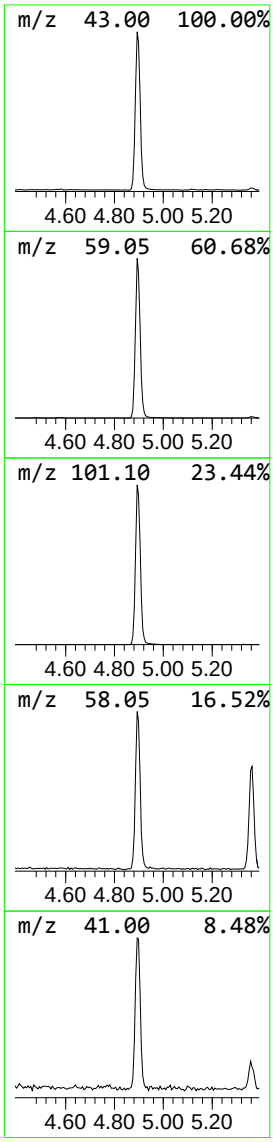
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.893	12.87 ng	930708	1,4-Dichlorobenzene-d4	7.775

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Hexanamide	115	C6H13NO	000628-02-4	35
3	Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	32
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
5	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

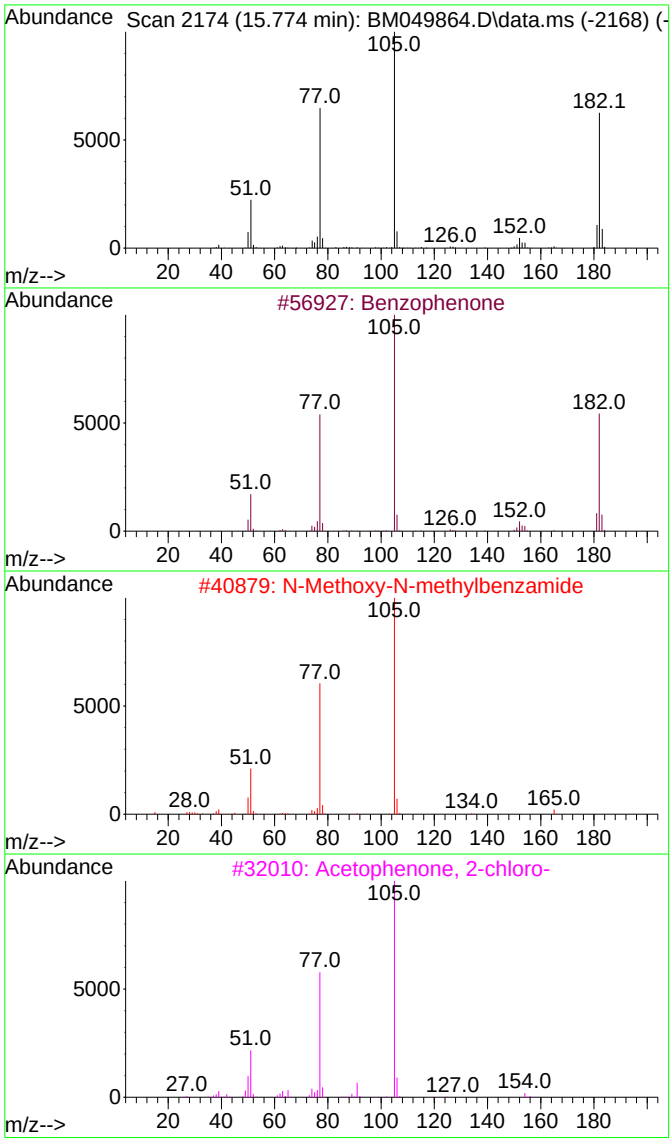
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

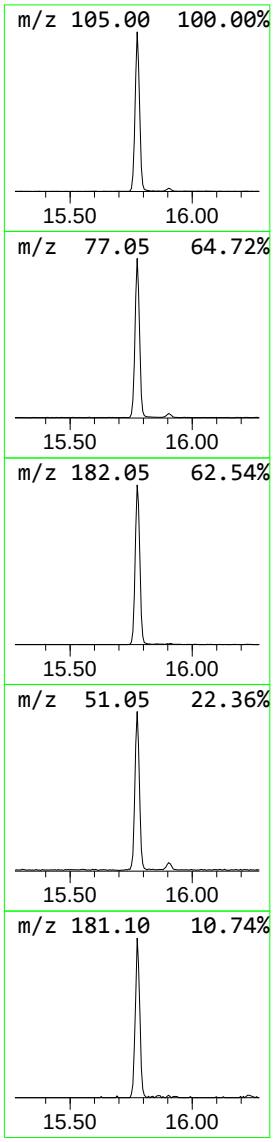
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Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.774	8.13 ng	994154	Acenaphthene-d10	14.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	53
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	47
5	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

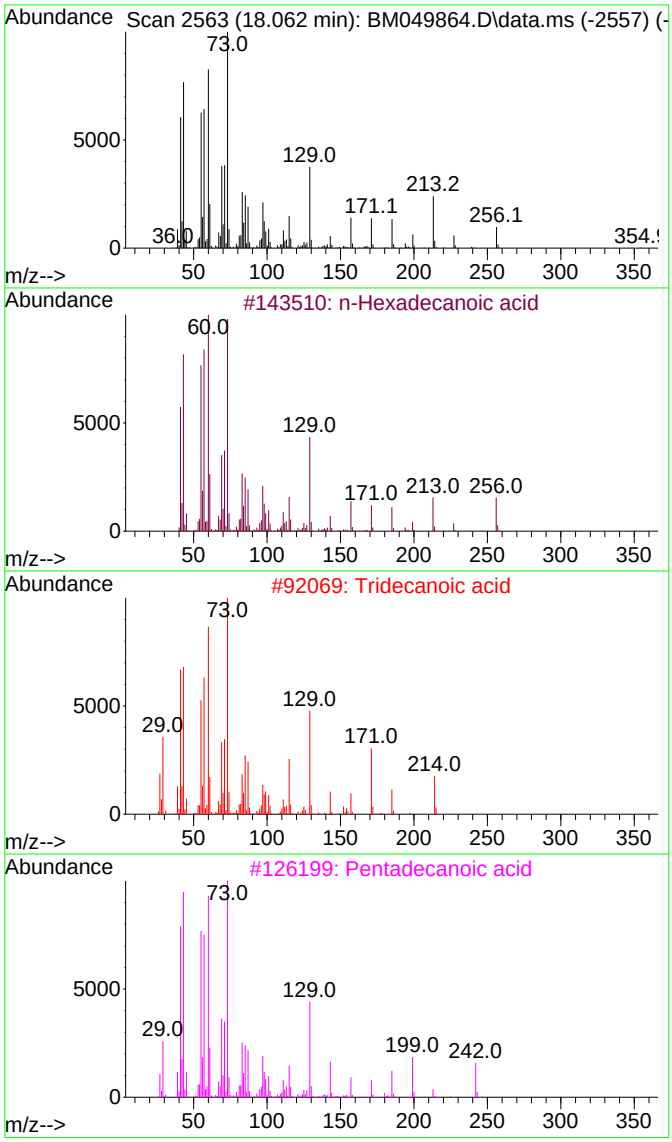
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TIC Integration Parameters: LSCINT.P

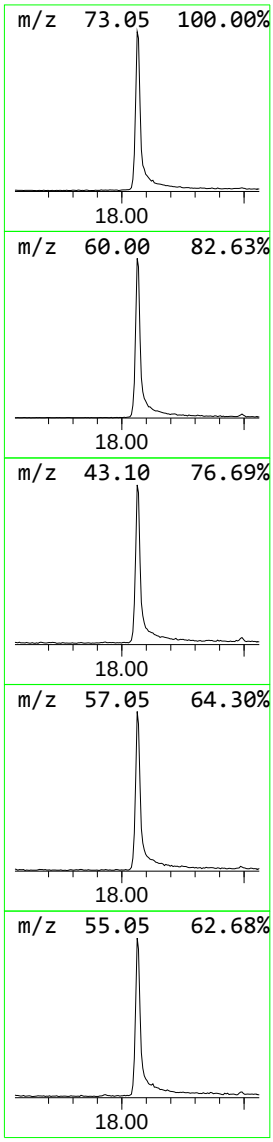
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.062	19.03 ng	2699370	Phenanthrene-d10	17.163

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	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	90
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

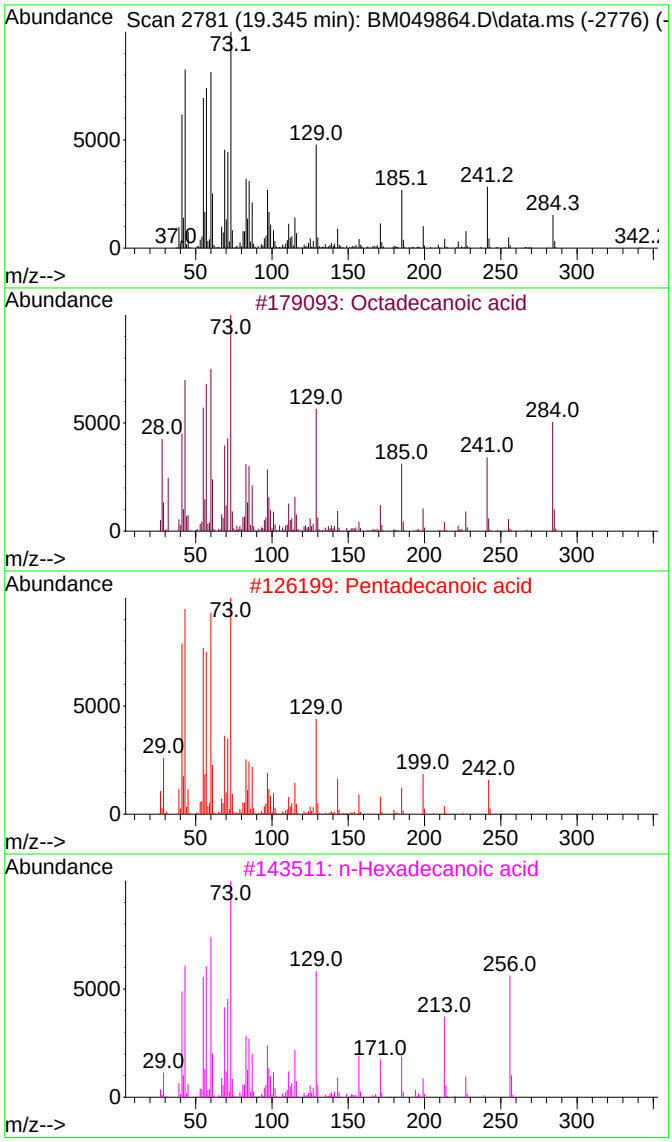
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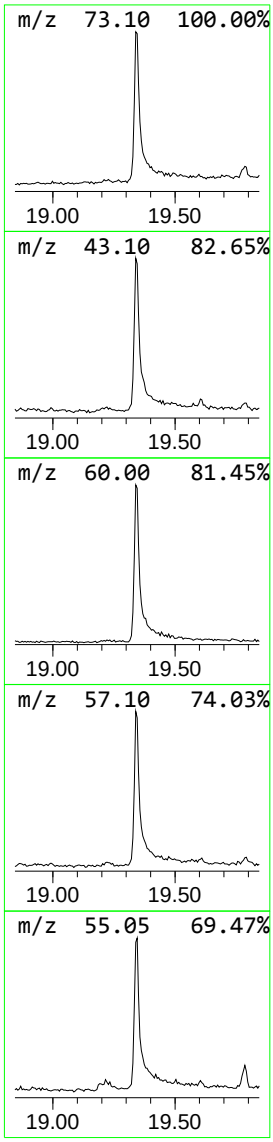
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Peak Number 4 Octadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.345	6.20 ng	1155320	Chrysene-d12	21.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
4	n-Decanoic acid	172	C10H20O2	000334-48-5	91
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

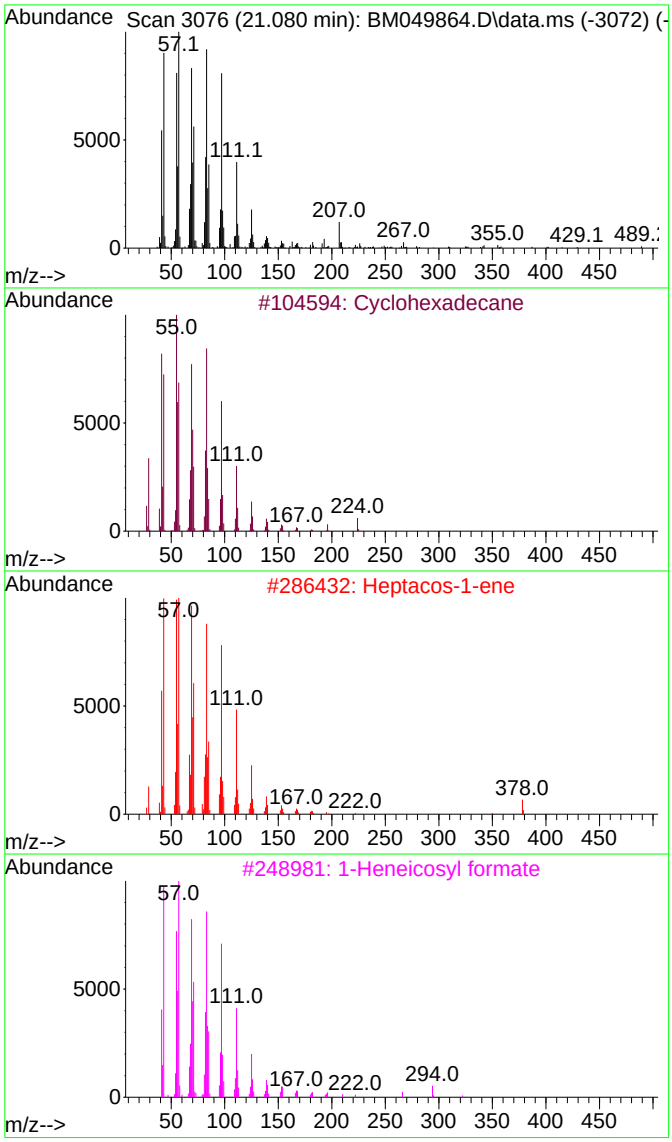
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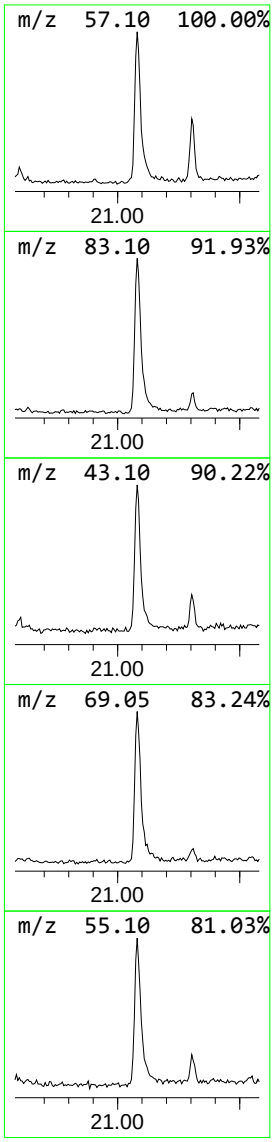
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Peak Number 5 Cyclohexadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.080	3.83 ng	714671	Chrysene-d12	21.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexadecane	224	C16H32	000295-65-8	94
2	Heptacos-1-ene	378	C27H54	015306-27-1	93
3	1-Heneicosyl formate	340	C22H44O2	077899-03-7	93
4	Octacosanol	410	C28H58O	000557-61-9	91
5	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049864.D
Acq On : 09 Apr 2025 12:29
Operator : RC/JU
Sample : Q1744-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.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
2-Pentanone, 4-...	4.893	12.9	ng	930708	1	7.775	1445840	20.0
Benzophenone	15.774	8.1	ng	994154	3	14.416	2445090	20.0
n-Hexadecanoic ...	18.062	19.0	ng	2699370	4	17.163	2836890	20.0
Octadecanoic acid	19.345	6.2	ng	1155320	5	21.398	3729380	20.0
Cyclohexadecane	21.080	3.8	ng	714671	5	21.398	3729380	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Quant Time: Apr 09 16:19:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

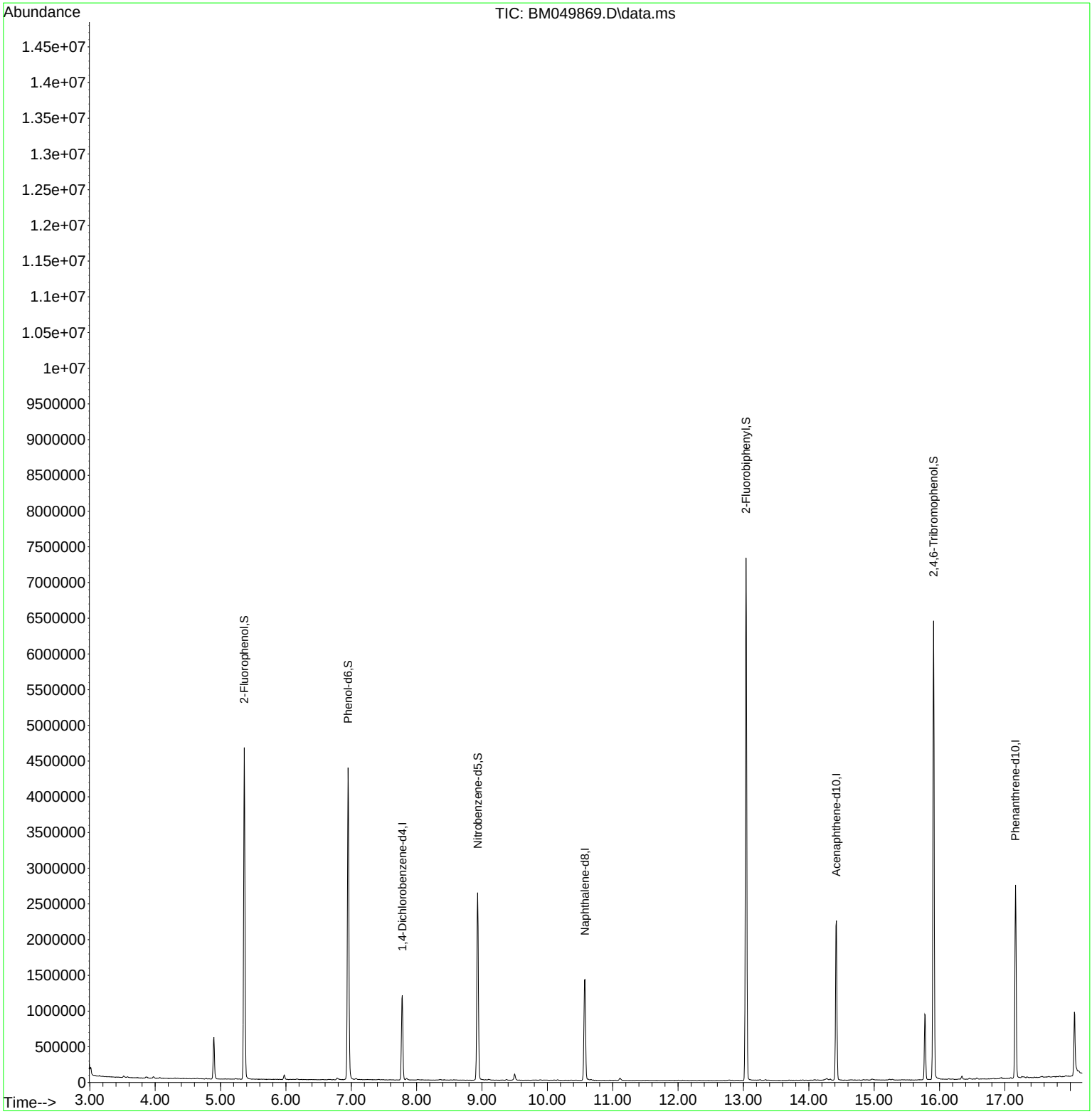
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.781	152	345979	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1233998	20.000	ng	0.00
39) Acenaphthene-d10	14.421	164	818312	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	1627507	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1500407	20.000	ng	0.00
86) Perylene-d12	24.397	264	1632307	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	2045775	100.407	ng	0.00
7) Phenol-d6	6.951	99	2561323	101.038	ng	0.00
23) Nitrobenzene-d5	8.934	82	1504136	67.875	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	1280359	107.569	ng	0.00
45) 2-Fluorobiphenyl	13.039	172	3945168	65.375	ng	0.00
79) Terphenyl-d14	19.792	244	5986611	74.774	ng	0.00
Target Compounds						Qvalue
88) Benzo(b)fluoranthene	23.450	252	264712	2.539	ng	# 96
89) Benzo(k)fluoranthene	23.509	252	224389	2.221	ng	# 96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

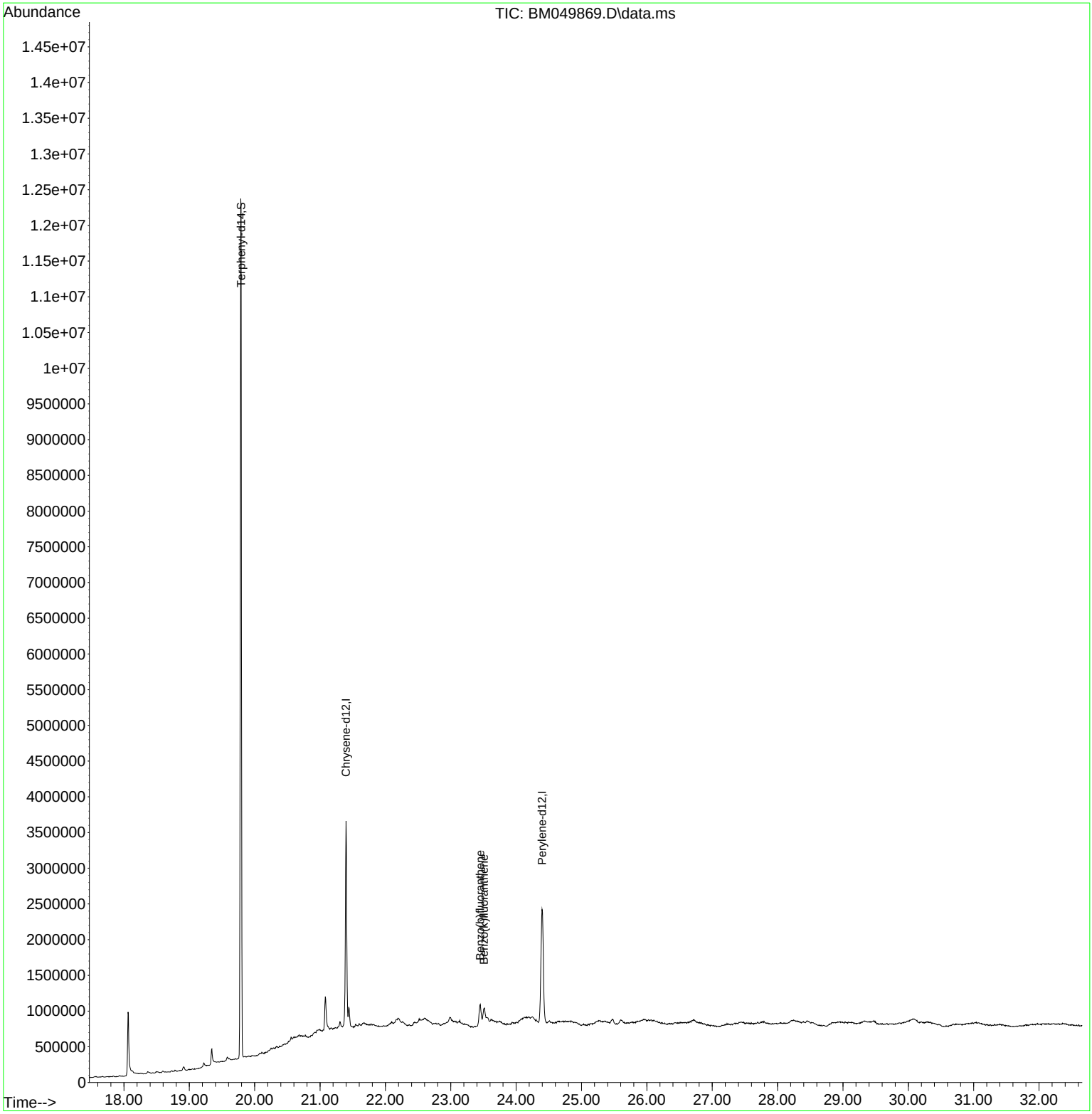
Quant Time: Apr 09 16:19:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

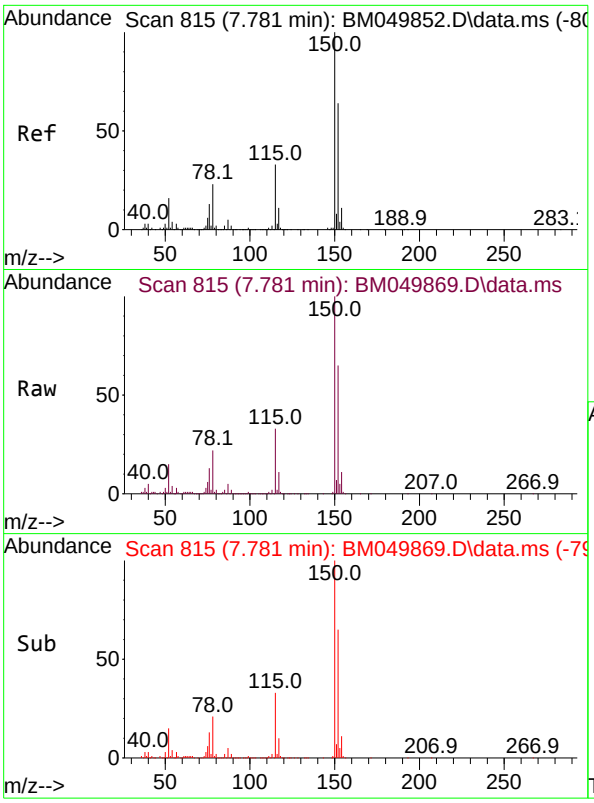


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Quant Time: Apr 09 16:19:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



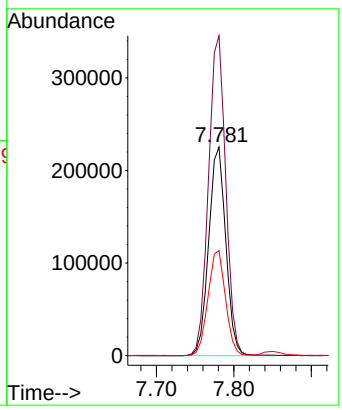


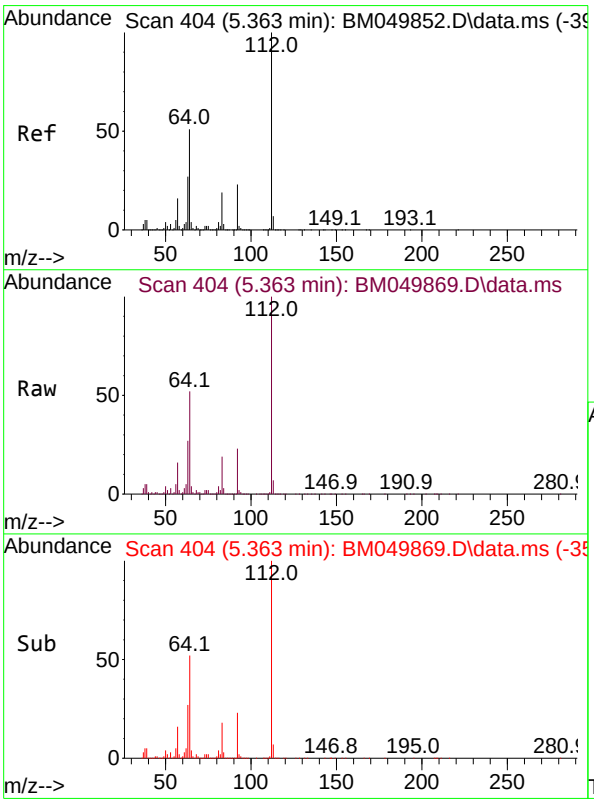
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Tgt Ion:152 Resp: 345979

Ion	Ratio	Lower	Upper
152	100		
150	153.4	124.3	186.5
115	50.4	41.1	61.7

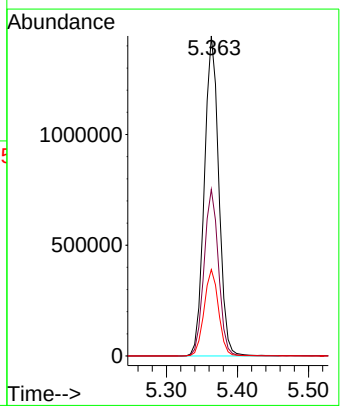


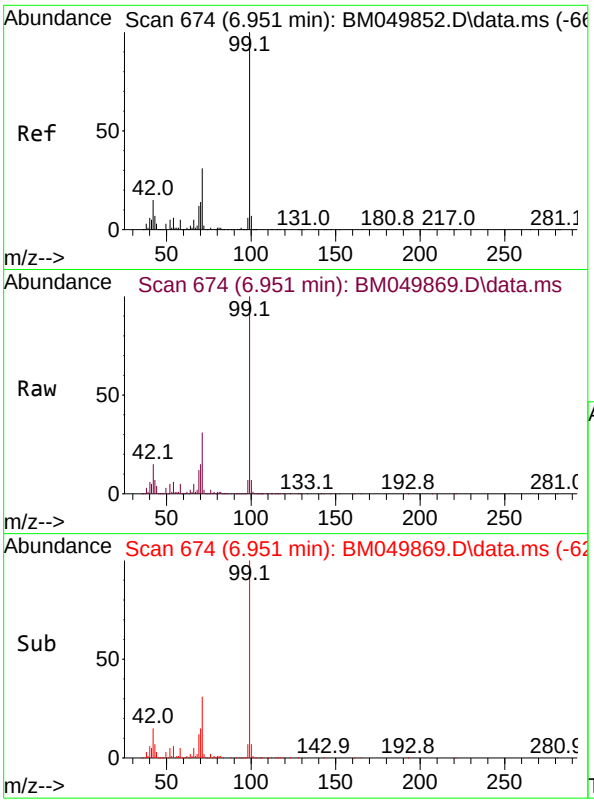


#5
2-Fluorophenol
Concen: 100.407 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Tgt Ion:112 Resp: 2045775

Ion	Ratio	Lower	Upper
112	100		
64	52.0	41.0	61.6
63	27.0	21.5	32.3



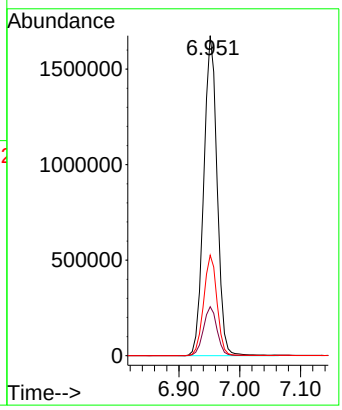


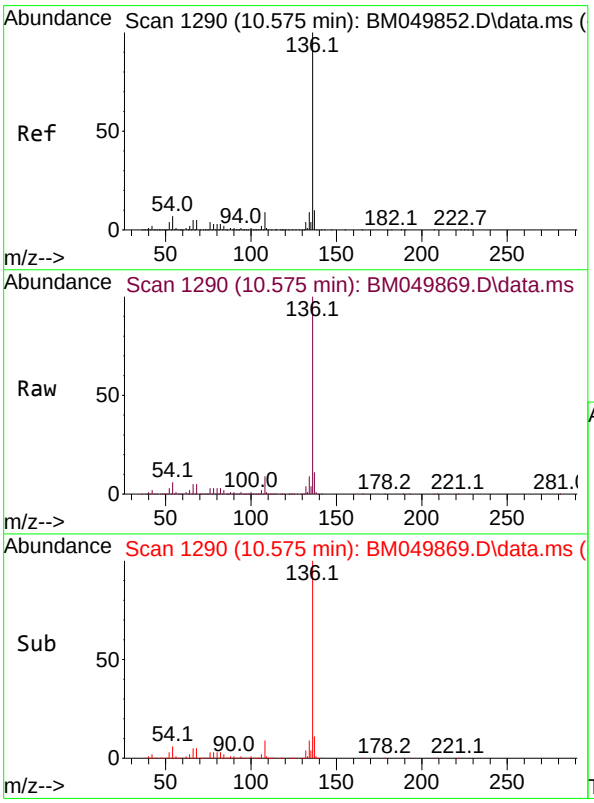
#7
Phenol-d6
Concen: 101.038 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Tgt Ion: 99 Resp: 2561323

Ion	Ratio	Lower	Upper
99	100		
42	15.3	12.1	18.1
71	31.4	24.9	37.3

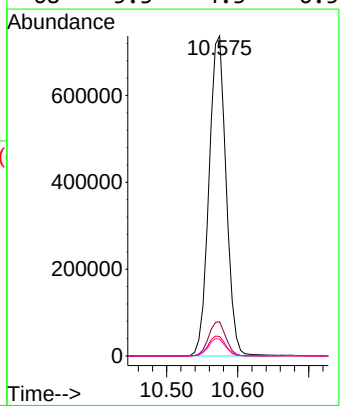


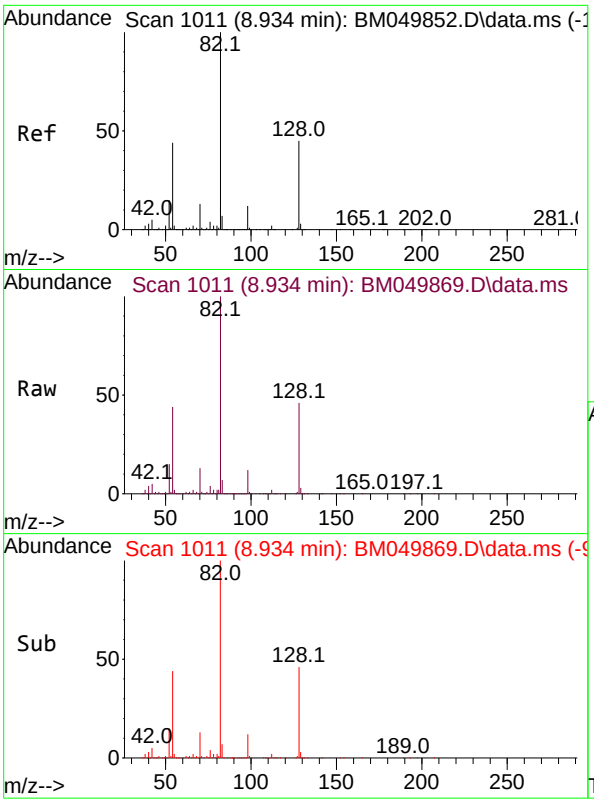


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Tgt Ion:136 Resp: 1233998

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.4	12.6
54	6.1	5.3	7.9
68	5.3	4.3	6.5



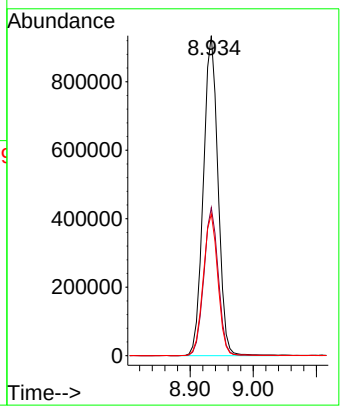


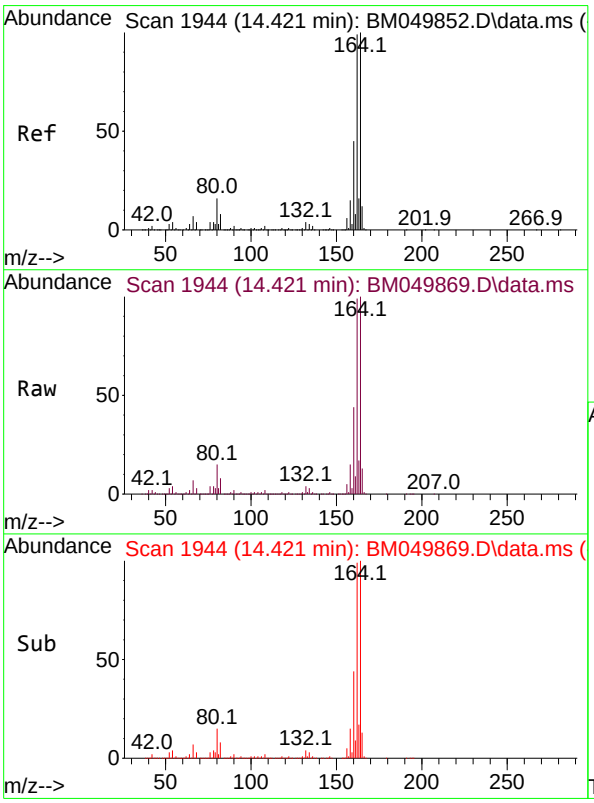
#23
Nitrobenzene-d5
Concen: 67.875 ng
RT: 8.934 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Tgt Ion: 82 Resp: 1504136

Ion	Ratio	Lower	Upper
82	100		
128	46.2	36.2	54.2
54	44.3	35.0	52.6

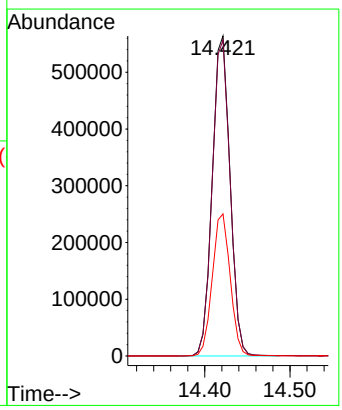


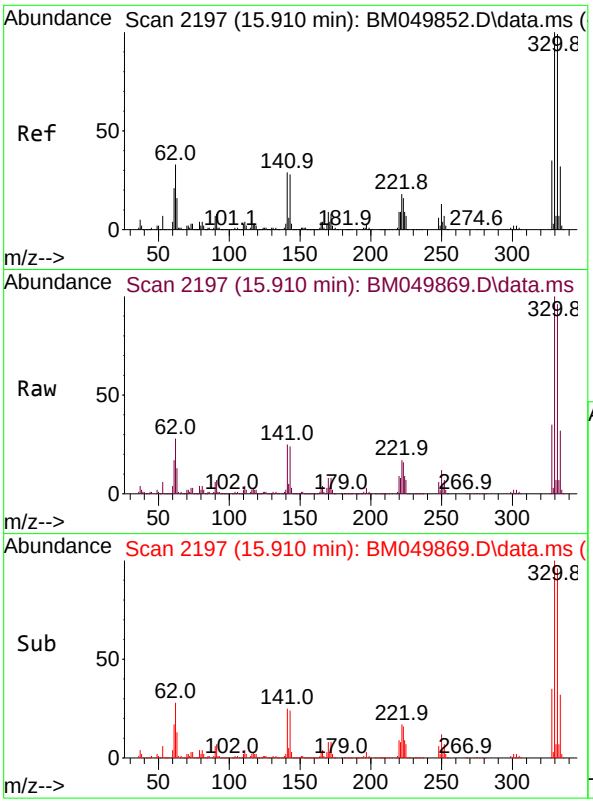


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.421 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Tgt Ion:164 Resp: 818312

Ion	Ratio	Lower	Upper
164	100		
162	98.7	79.4	119.0
160	44.4	36.2	54.2



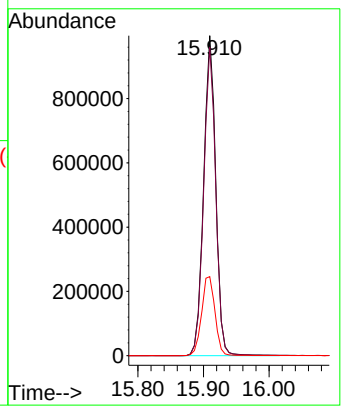


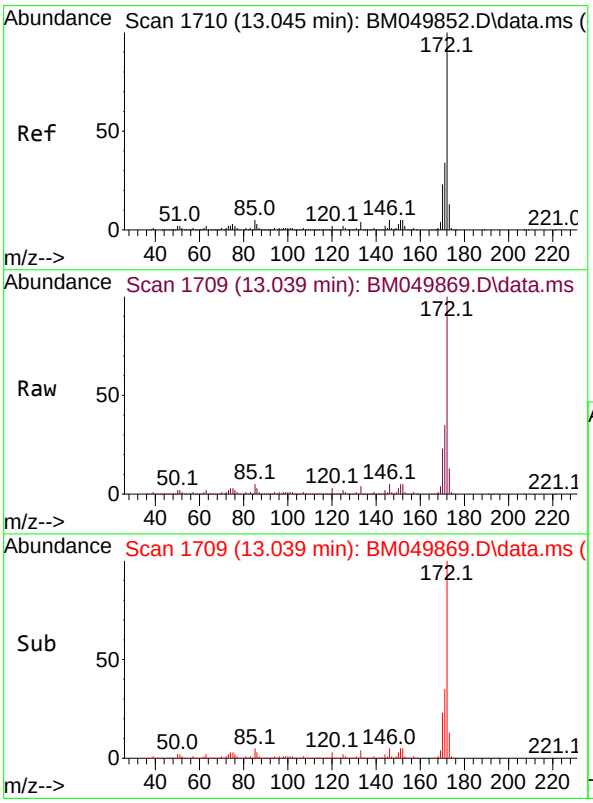
#42
2,4,6-Tribromophenol
Concen: 107.569 ng
RT: 15.910 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Tgt Ion:330 Resp: 1280359

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.0	117.0
141	27.5	23.5	35.3

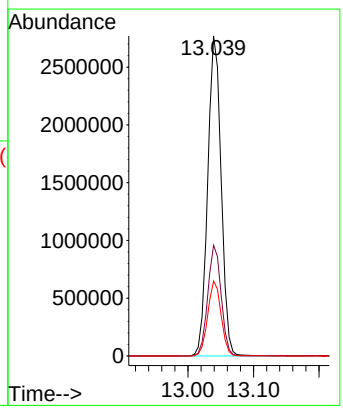


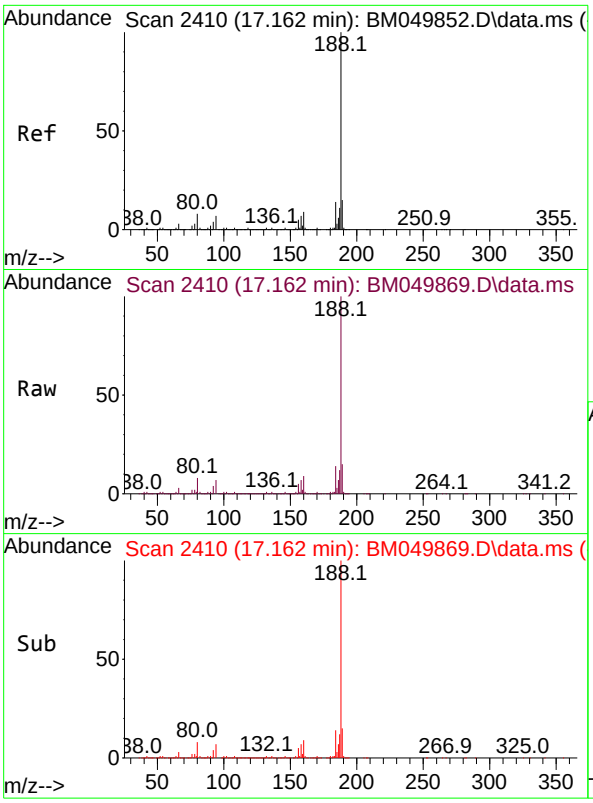


#45
2-Fluorobiphenyl
Concen: 65.375 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Tgt Ion:172 Resp: 3945168

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.4	41.2
170	23.4	18.6	28.0



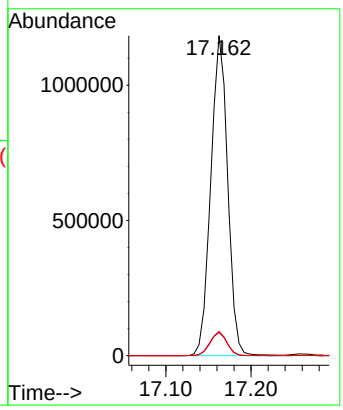


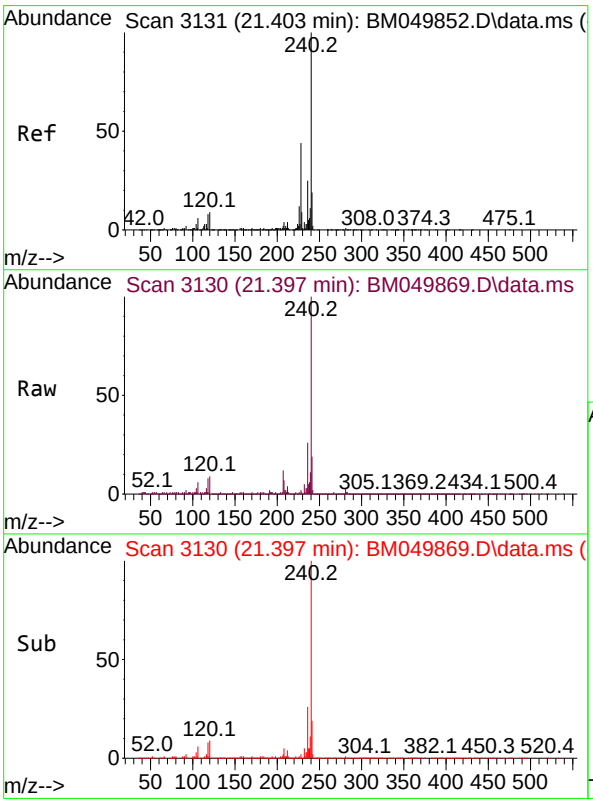
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.162 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Tgt Ion:188 Resp: 1627507

Ion	Ratio	Lower	Upper
188	100		
94	7.3	5.8	8.6
80	7.6	6.4	9.6

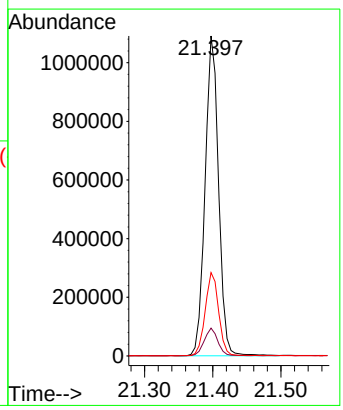


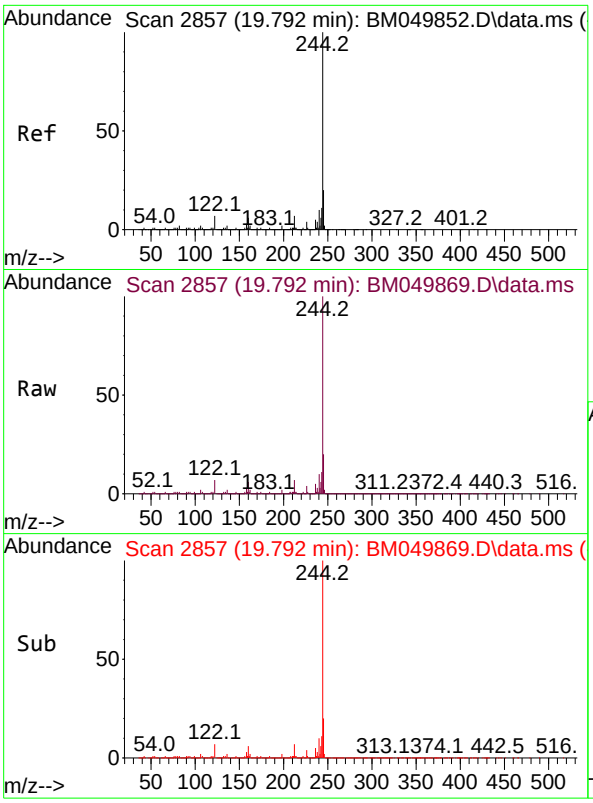


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Tgt Ion:240 Resp: 1500407

Ion	Ratio	Lower	Upper
240	100		
120	8.7	6.9	10.3
236	26.0	20.4	30.6



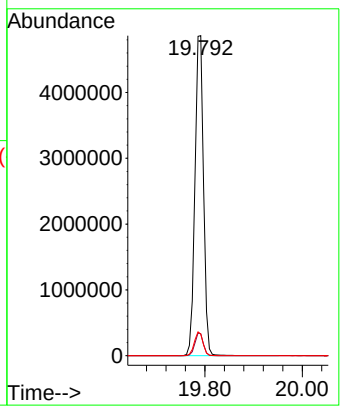


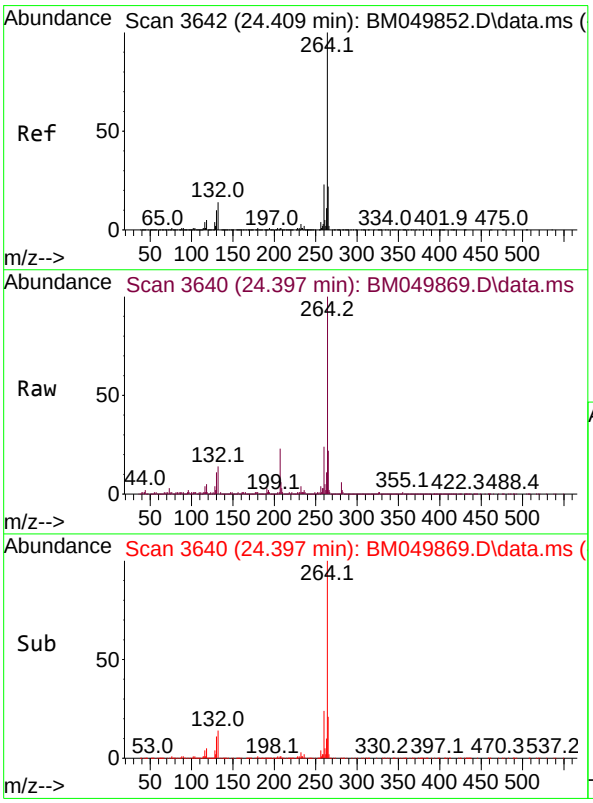
#79
Terphenyl-d14
Concen: 74.774 ng
RT: 19.792 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Tgt Ion:244 Resp: 5986611

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	6.8	5.4	8.0

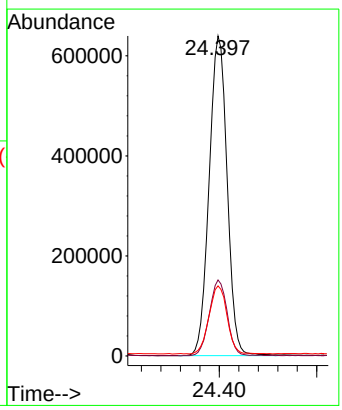


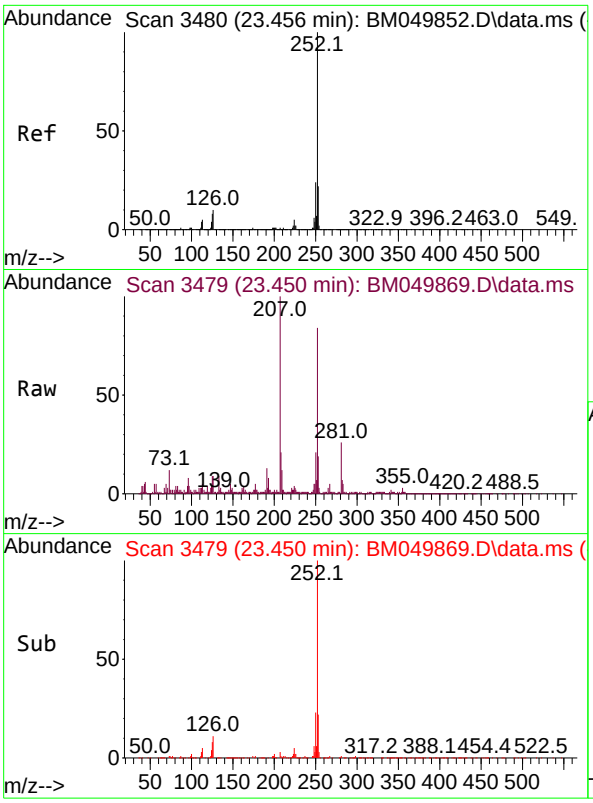


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.397 min Scan# 3640
Delta R.T. -0.012 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Tgt Ion:264 Resp: 1632307

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	28.0
265	21.9	17.8	26.8



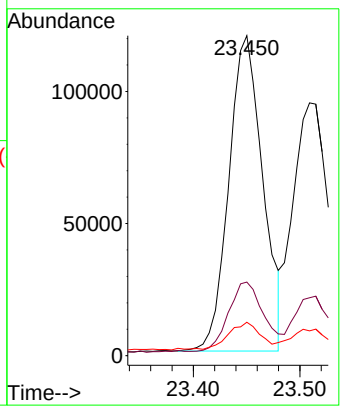


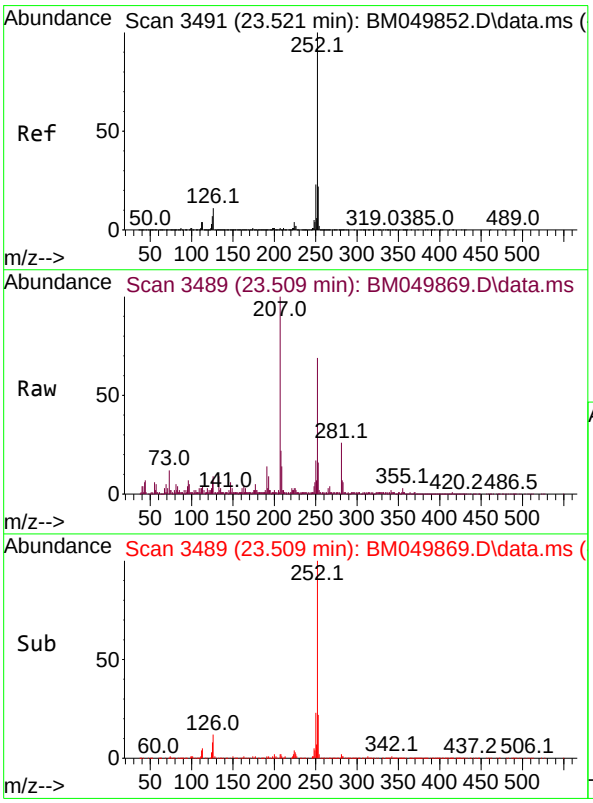
#88
Benzo(b)fluoranthene
Concen: 2.539 ng
RT: 23.450 min Scan# 34
Delta R.T. -0.006 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Tgt Ion:252 Resp: 264712

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	10.4	6.2	9.4#

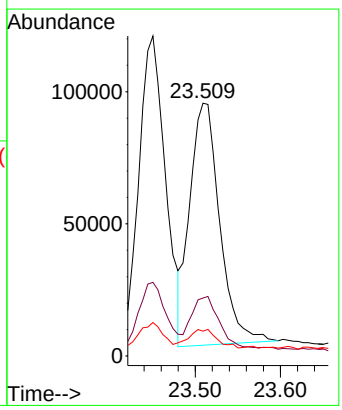




#89
Benzo(k)fluoranthene
Concen: 2.221 ng
RT: 23.509 min Scan# 3489
Delta R.T. -0.012 min
Lab File: BM049869.D
Acq: 09 Apr 2025 15:45

Tgt Ion:252 Resp: 224389

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.2
125	9.8	5.8	8.8#



Sample Results: **BM049869.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-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_M\Methods\8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM049869.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.898	319	325	333	rBV	583679	821335	5.52%	1.087%
2	5.363	397	404	423	rBV	4643720	6566179	44.09%	8.687%
3	6.951	662	674	688	rBV	4370188	6865293	46.10%	9.083%
4	7.781	808	815	822	rBV	1185422	1847201	12.40%	2.444%
5	8.934	1000	1011	1029	rBV	2625941	4258303	28.59%	5.634%
6	10.575	1280	1290	1296	rBV	1413576	2402357	16.13%	3.178%
7	13.039	1702	1709	1724	rBV	7315651	10439179	70.10%	13.812%
8	14.421	1935	1944	1954	rBV	2233458	3312895	22.25%	4.383%
9	15.774	2167	2174	2182	rBV	913619	1270596	8.53%	1.681%
10	15.910	2190	2197	2211	rBV	6420201	8646779	58.06%	11.440%
11	17.162	2403	2410	2424	rBV2	2706035	3779088	25.38%	5.000%
12	18.062	2558	2563	2573	rBV	892310	1403685	9.43%	1.857%
13	19.345	2777	2781	2790	rBV	215969	382293	2.57%	0.506%
14	19.786	2851	2856	2863	rBV	12034471	14892679	100.00%	19.704%
15	21.080	3072	3076	3082	rBV	470666	785086	5.27%	1.039%
16	21.397	3125	3130	3135	rBV	2794562	3842891	25.80%	5.084%
17	24.397	3633	3640	3653	rVB	1590339	4067052	27.31%	5.381%

Sum of corrected areas: 75582891

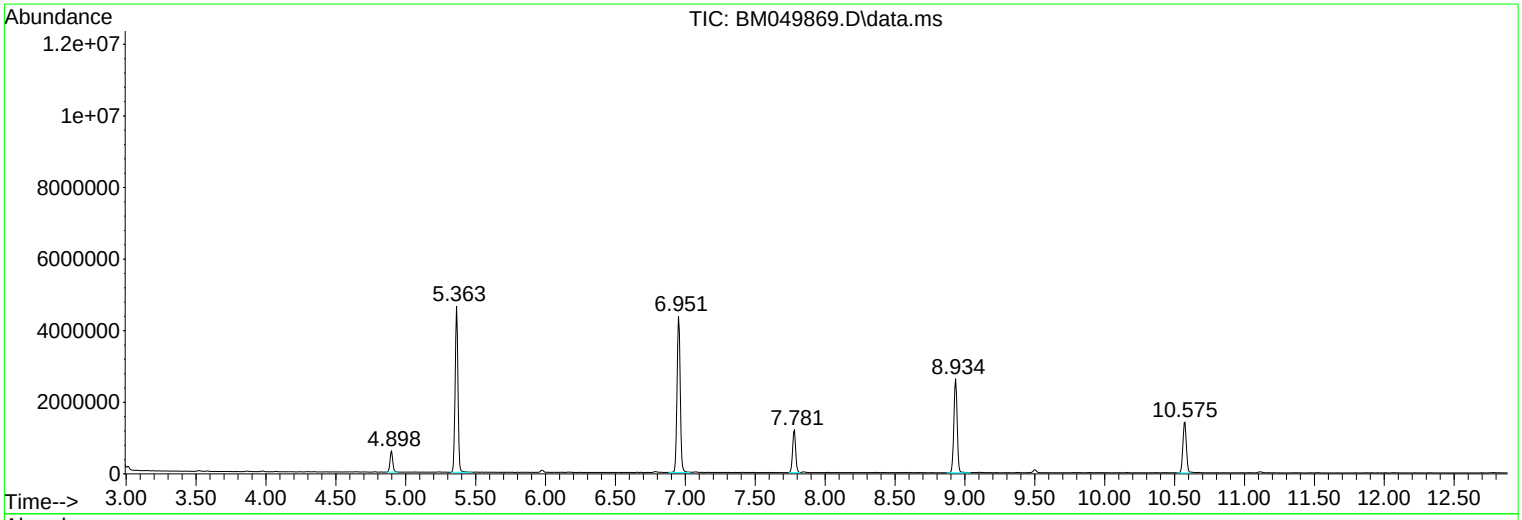
Sample Results: **BM049869.D**

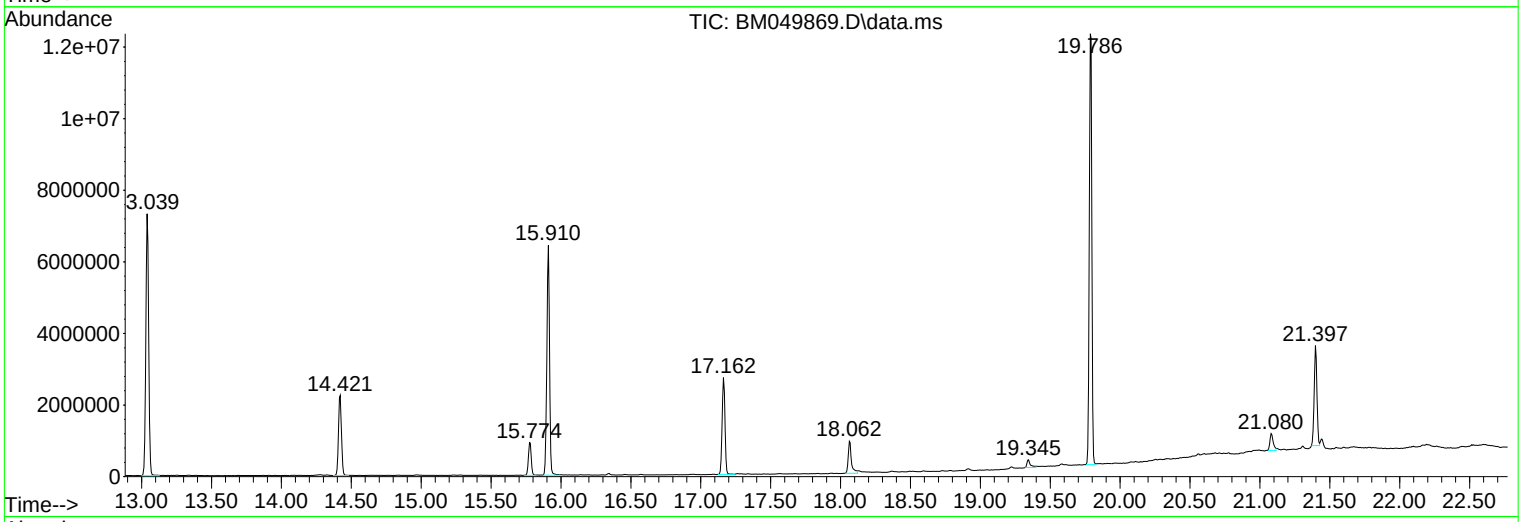
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

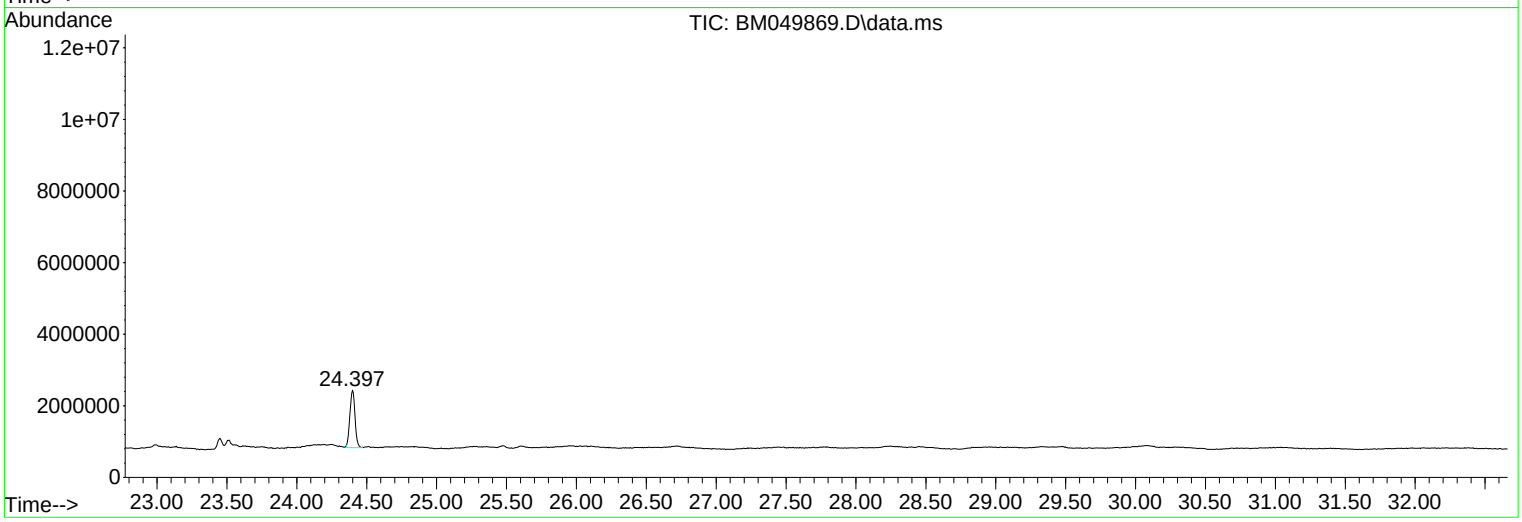
Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.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_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

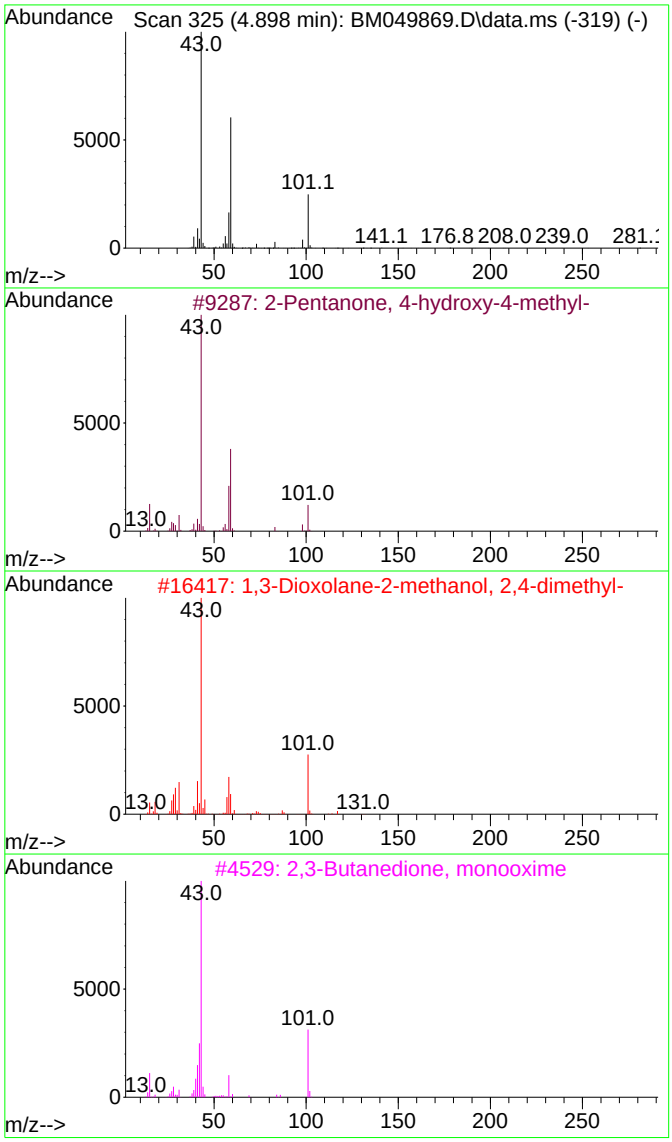
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

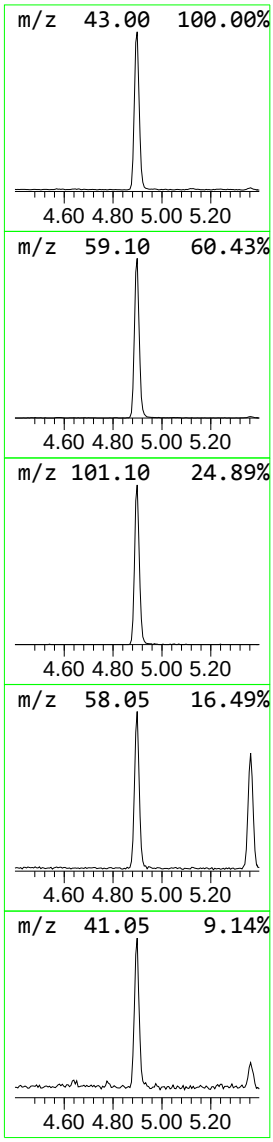
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.898	8.89 ng	821335	1,4-Dichlorobenzene-d4	7.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	1,3-Dioxolane-2-methanol, 2,4-di...	132	C6H12O3	053951-43-2	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

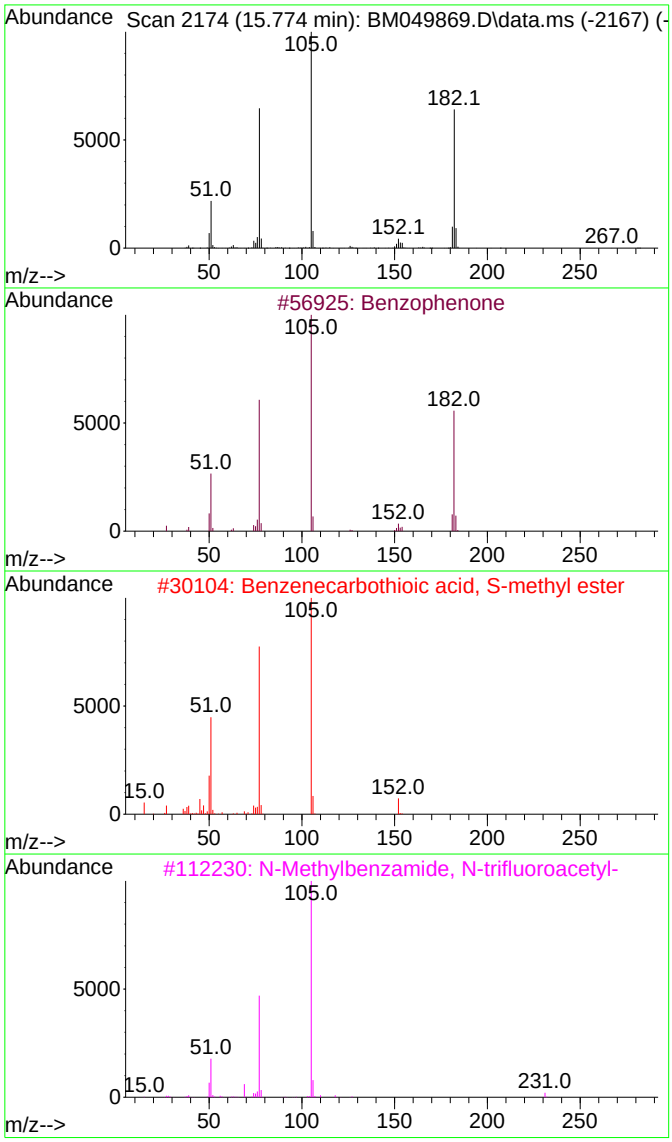
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

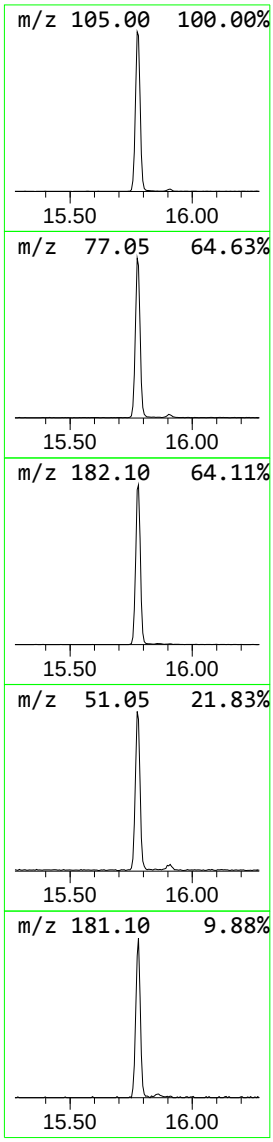
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.774	7.67 ng	1270600	Acenaphthene-d10	14.421

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	47
3	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	43
4	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	43
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

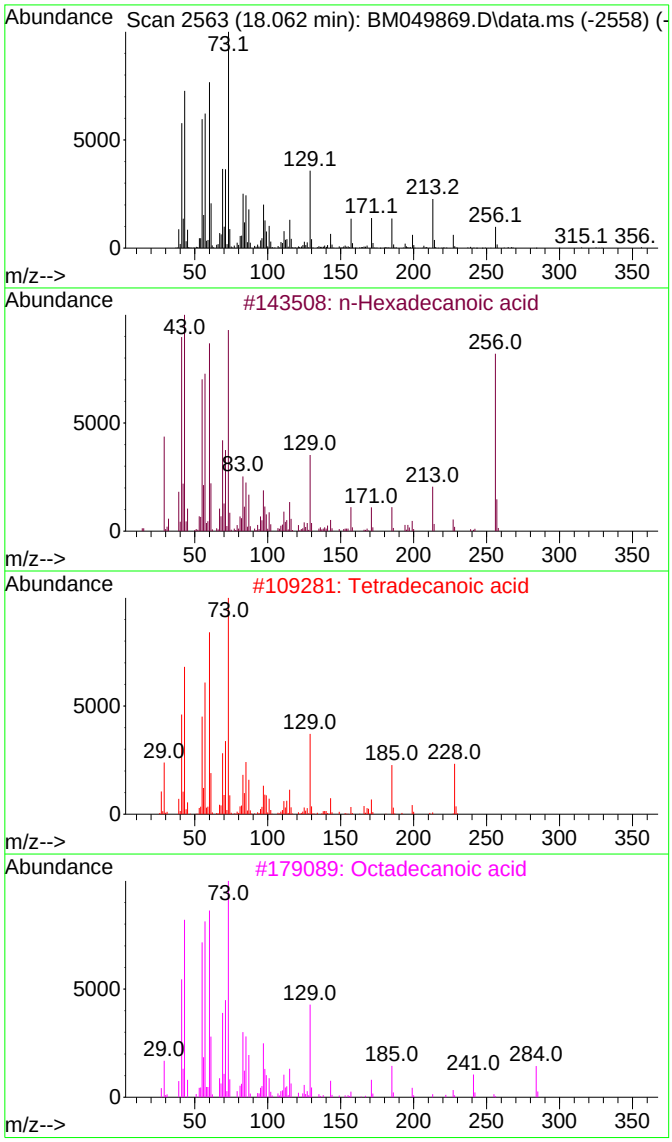
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

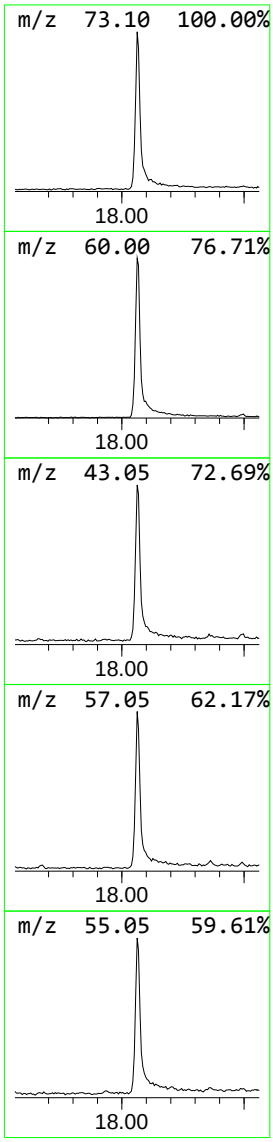
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.062	7.43 ng	1403690	Phenanthrene-d10	17.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Octadecanoic acid	284	C18H36O2	000057-11-4	91
4	Tridecanoic acid	214	C13H26O2	000638-53-9	90
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

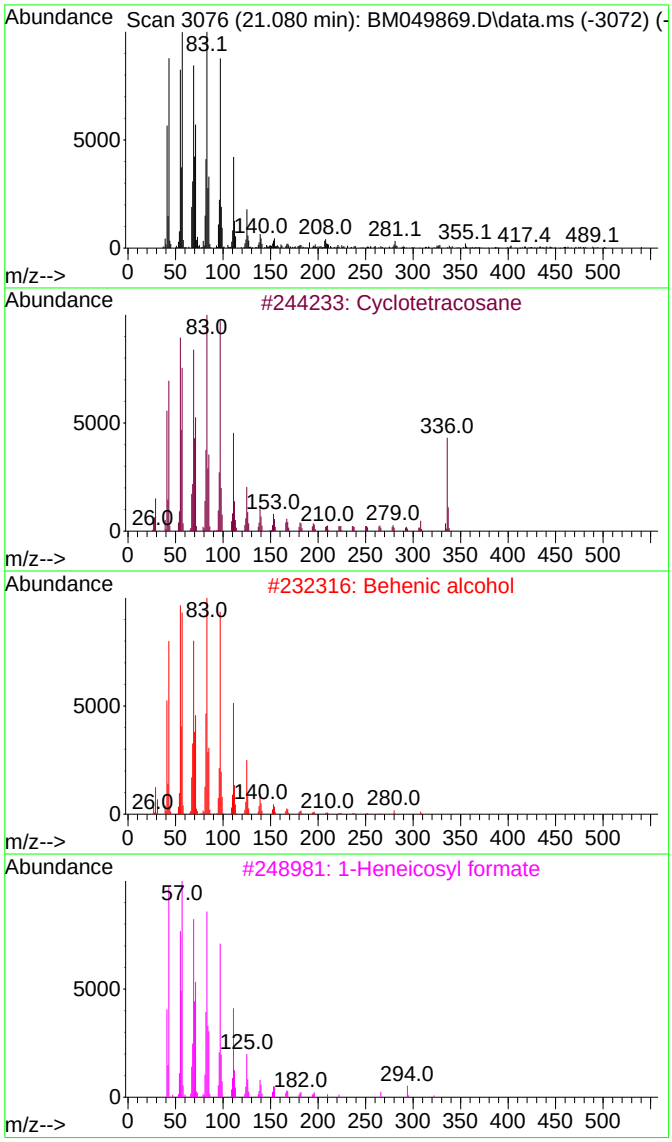
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

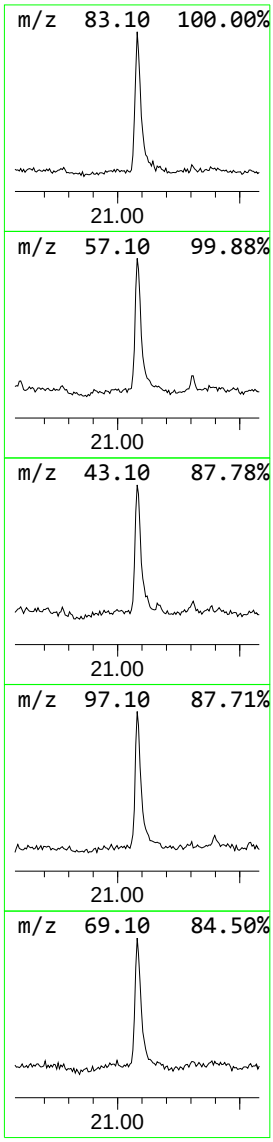
****

Peak Number 4 Cyclotetracosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.080	4.09 ng	785086	Chrysene-d12	21.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetracosane	336	C24H48	000297-03-0	97
2	Behenic alcohol	326	C22H46O	000661-19-8	94
3	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
4	1-Heptacosanol	396	C27H56O	002004-39-9	94
5	9-Eicosene, (E)-	280	C20H40	074685-29-3	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049869.D
Acq On : 09 Apr 2025 15:45
Operator : RC/JU
Sample : Q1744-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.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
2-Pentanone, 4-...	4.898	8.9	ng	821335	1	7.781	1847200	20.0
Benzophenone	15.774	7.7	ng	1270600	3	14.421	3312900	20.0
n-Hexadecanoic ...	18.062	7.4	ng	1403690	4	17.162	3779090	20.0
Cyclotetracosane	21.080	4.1	ng	785086	5	21.397	3842890	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Time: Apr 10 11:29:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

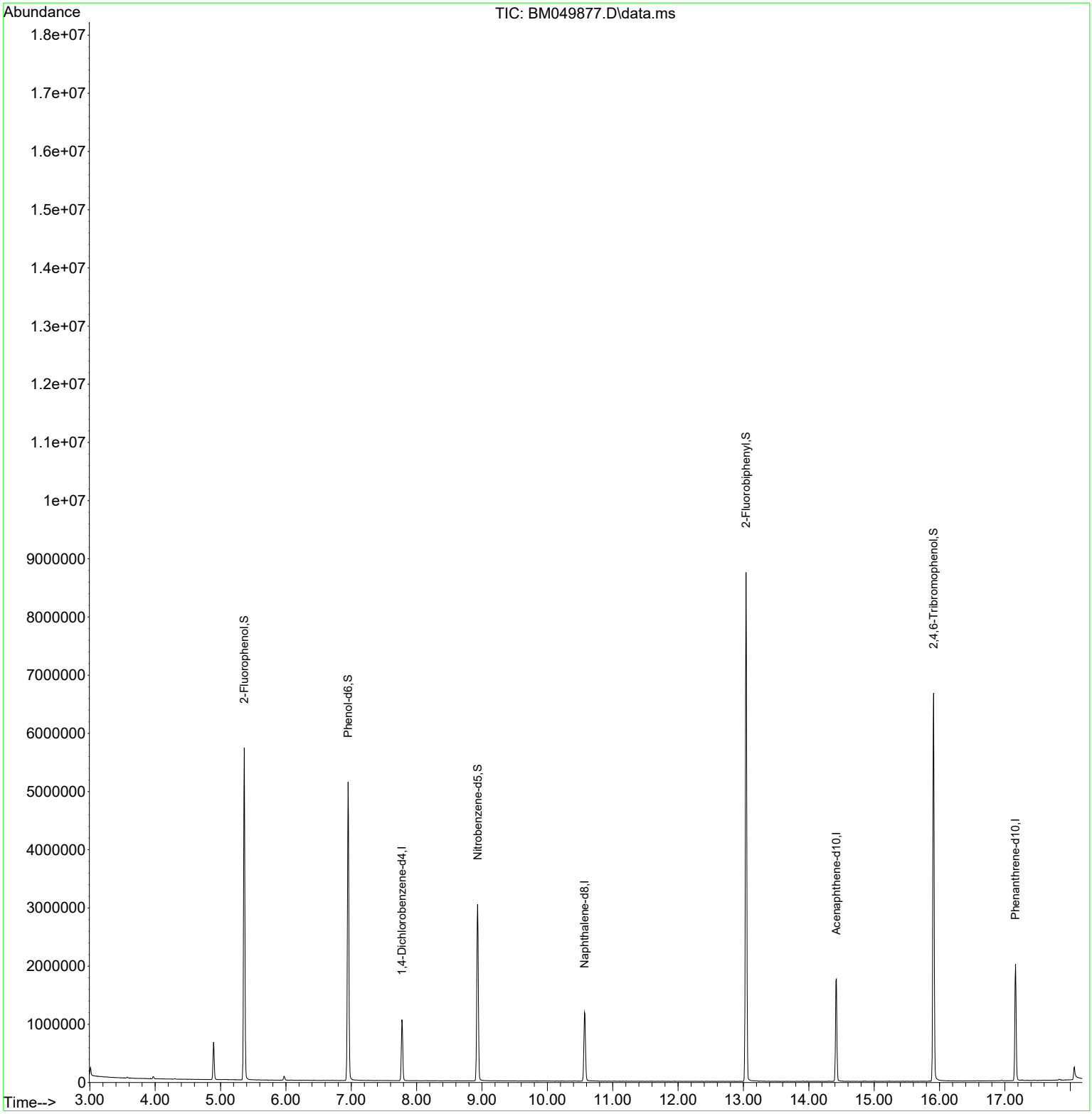
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	304918	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1031962	20.000	ng	0.00
39) Acenaphthene-d10	14.421	164	649646	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	1225291	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1173504	20.000	ng	0.00
86) Perylene-d12	24.397	264	1306478	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	2483463	138.303	ng	0.00
7) Phenol-d6	6.951	99	2987822	133.735	ng	0.00
23) Nitrobenzene-d5	8.933	82	1768989	95.456	ng	0.00
42) 2,4,6-Tribromophenol	15.909	330	1378609	145.895	ng	0.00
45) 2-Fluorobiphenyl	13.039	172	4613403	96.296	ng	0.00
79) Terphenyl-d14	19.786	244	7034521	112.339	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

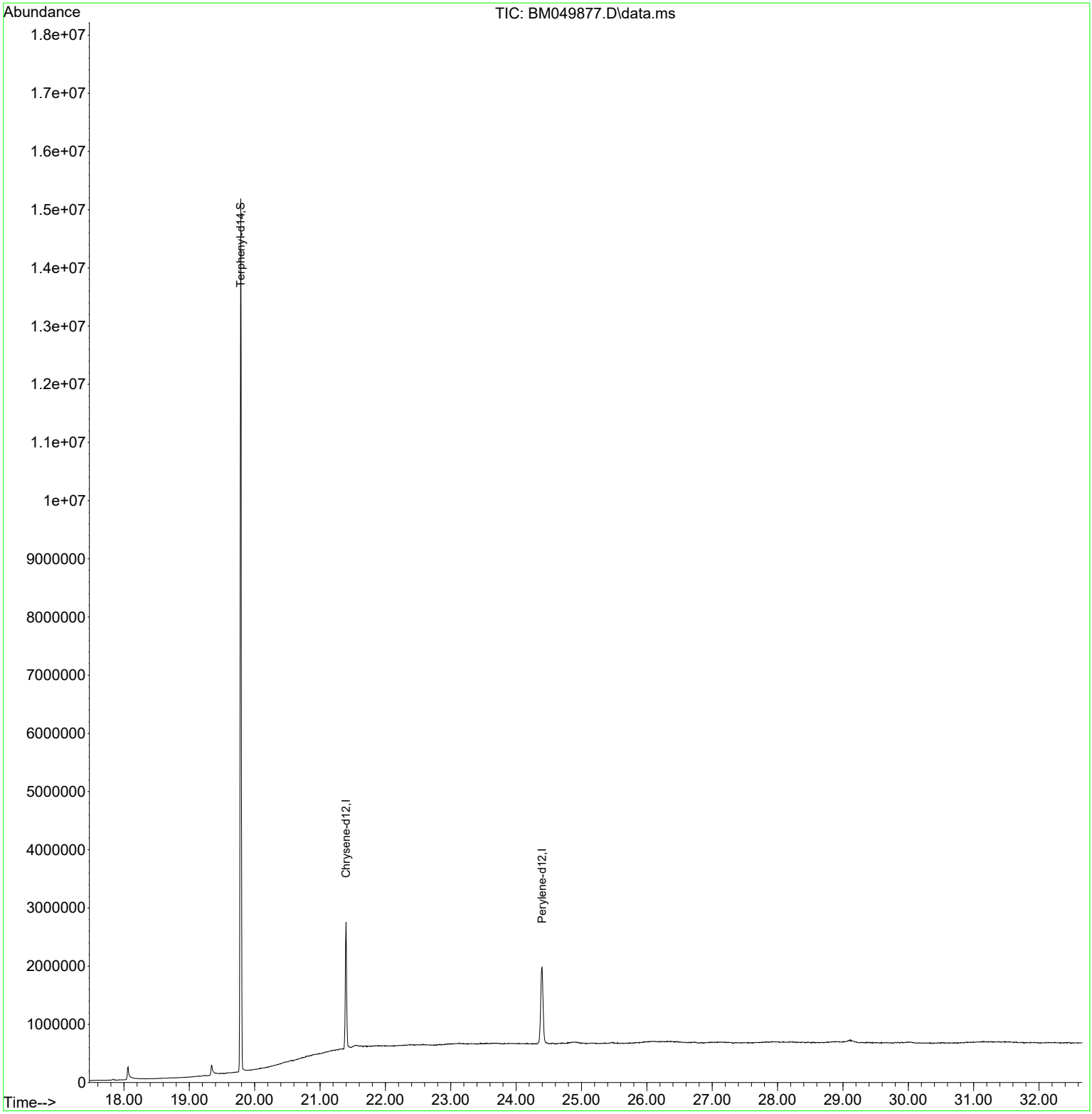
Quant Time: Apr 10 11:29:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

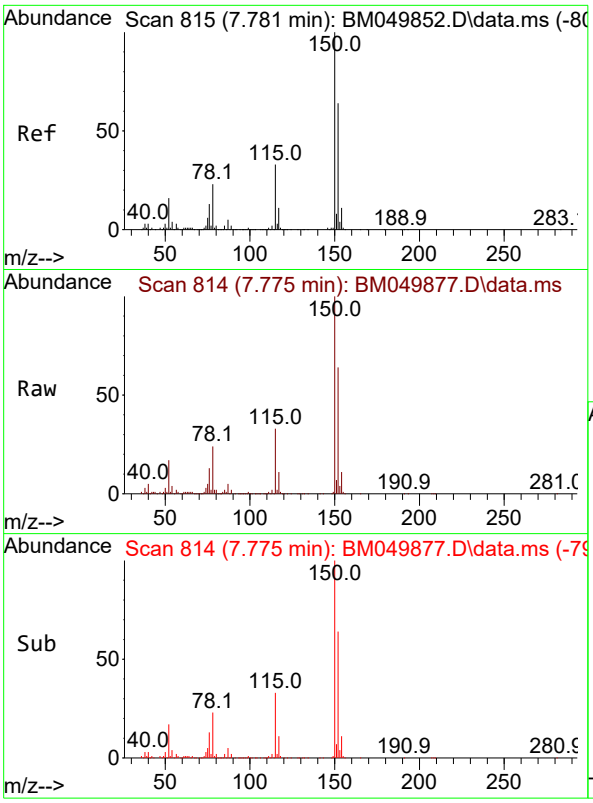


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Time: Apr 10 11:29:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



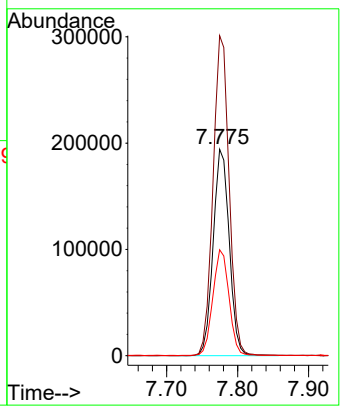


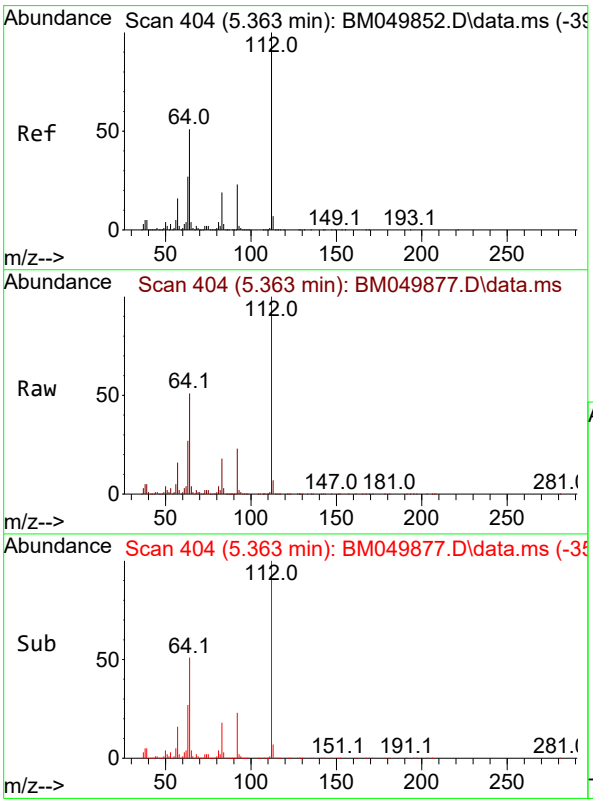
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:152 Resp: 304918

Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.3	186.5
115	51.3	41.1	61.7

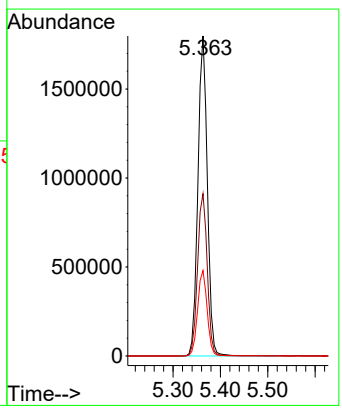


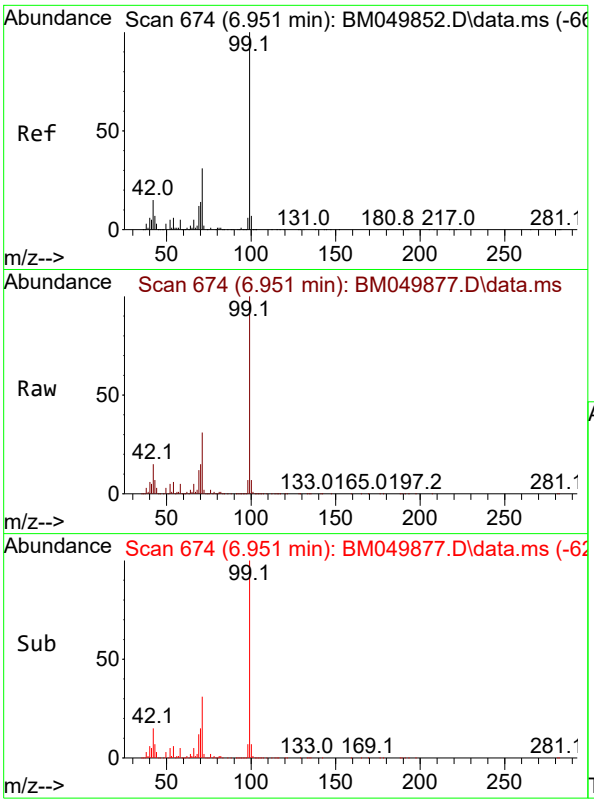


#5
2-Fluorophenol
Concen: 138.303 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:112 Resp: 2483463

Ion	Ratio	Lower	Upper
112	100		
64	50.7	41.0	61.6
63	26.7	21.5	32.3



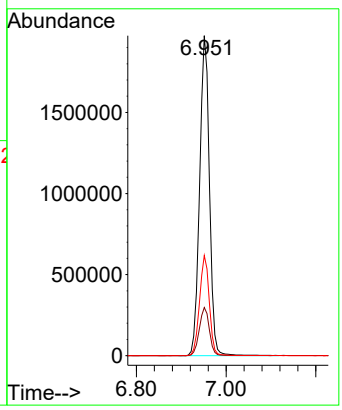


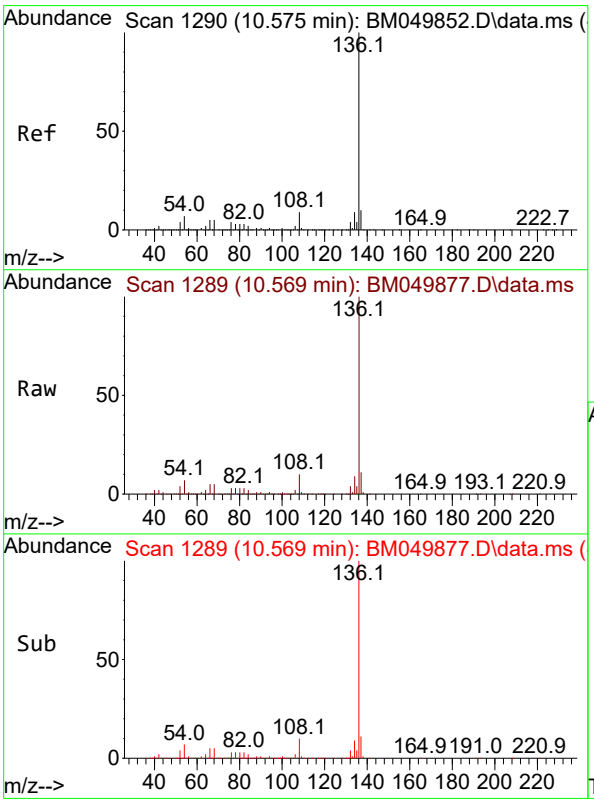
#7
Phenol-d6
Concen: 133.735 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion: 99 Resp: 2987822

Ion	Ratio	Lower	Upper
99	100		
42	15.0	12.1	18.1
71	31.3	24.9	37.3

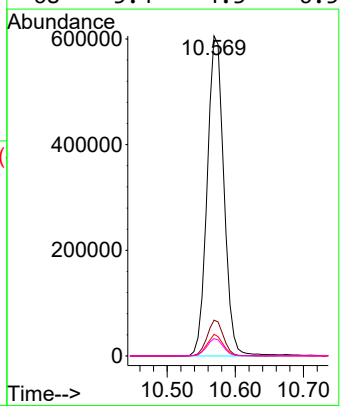


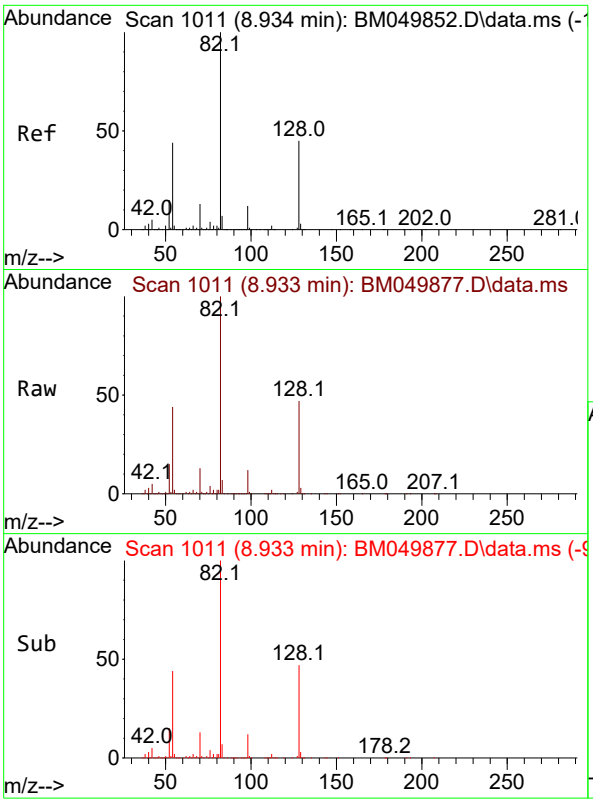


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:136 Resp: 1031962

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.4	12.6
54	6.8	5.3	7.9
68	5.4	4.3	6.5



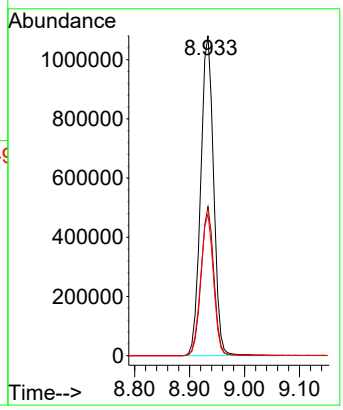


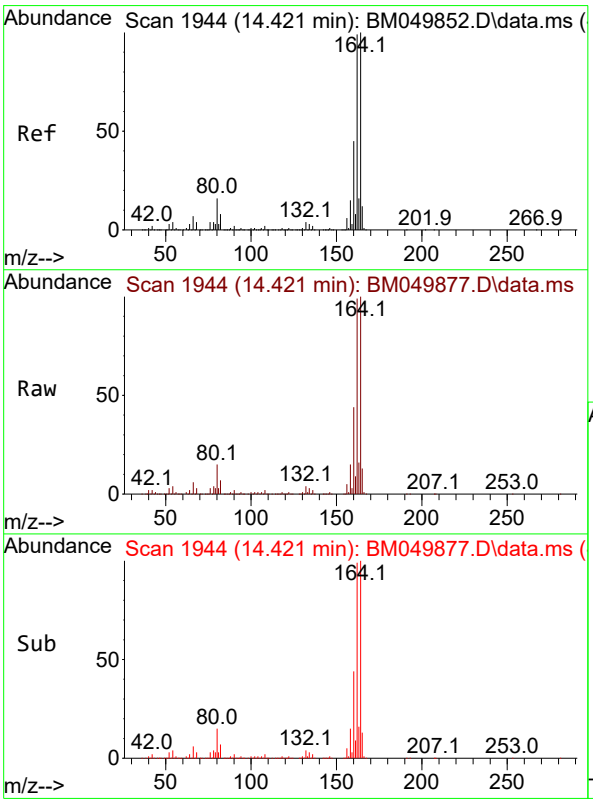
#23
Nitrobenzene-d5
Concen: 95.456 ng
RT: 8.933 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion: 82 Resp: 1768989

Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.2	54.2
54	44.1	35.0	52.6

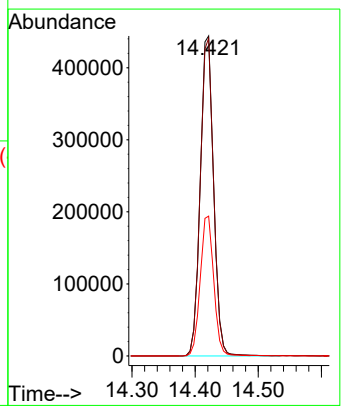


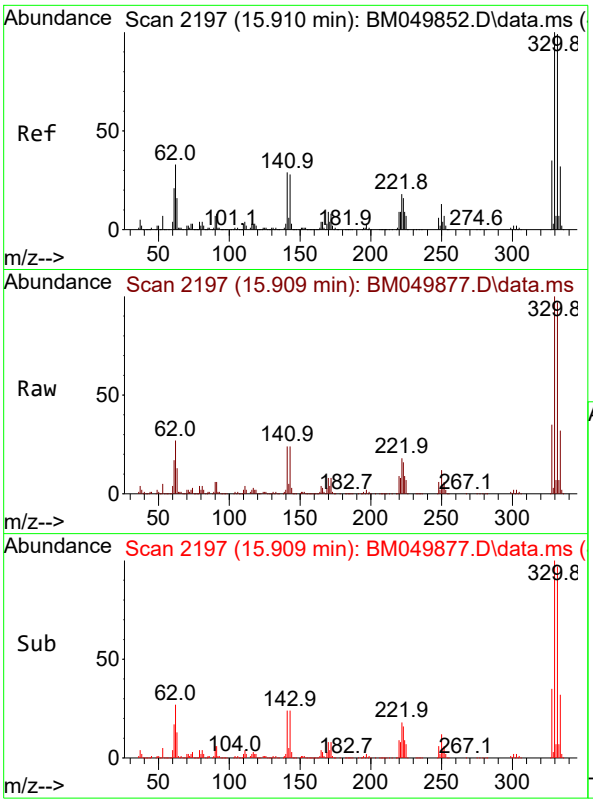


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.421 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:164 Resp: 649646

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.4	119.0
160	43.7	36.2	54.2



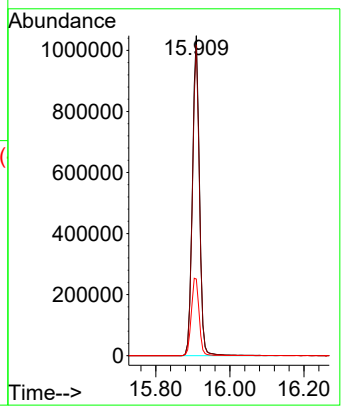


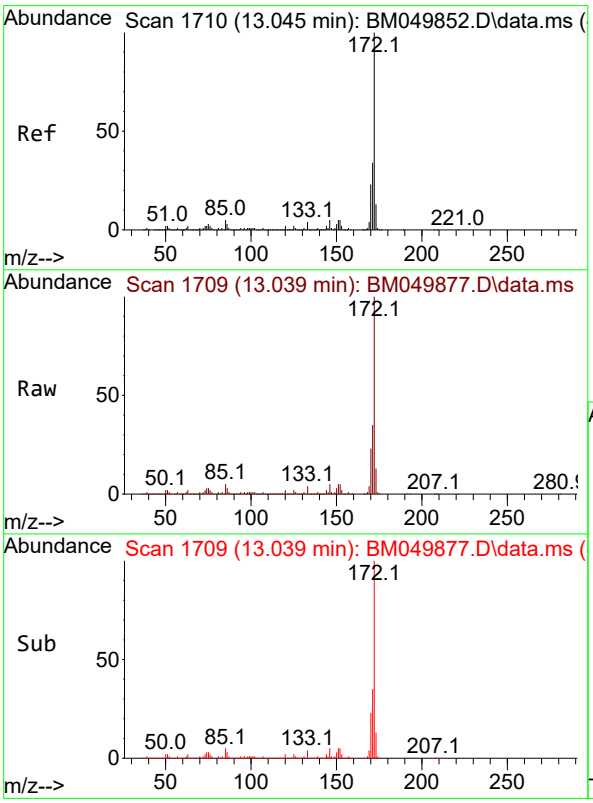
#42
2,4,6-Tribromophenol
Concen: 145.895 ng
RT: 15.909 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:330 Resp: 1378609

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.0	117.0
141	26.6	23.5	35.3

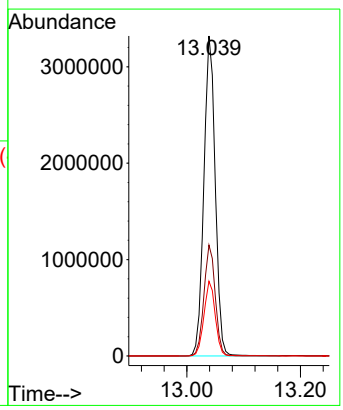


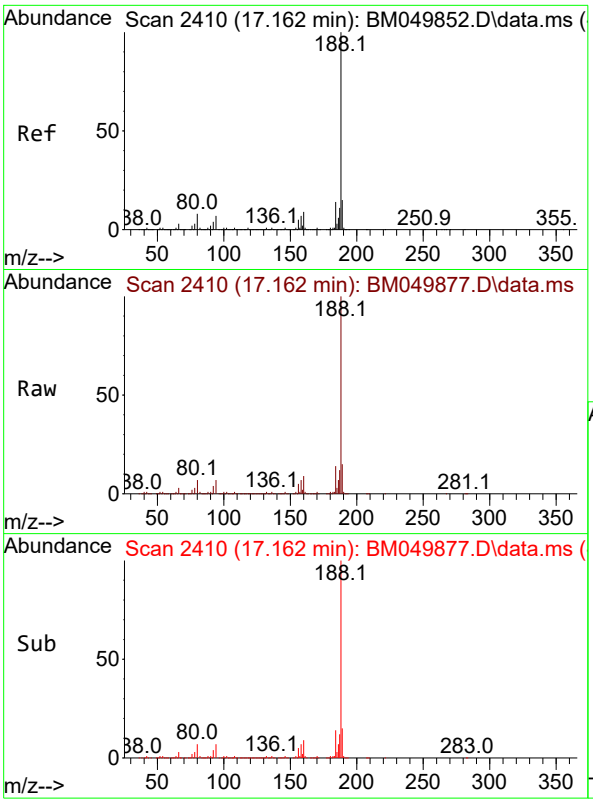


#45
2-Fluorobiphenyl
Concen: 96.296 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:172 Resp: 4613403

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.4	41.2
170	23.3	18.6	28.0



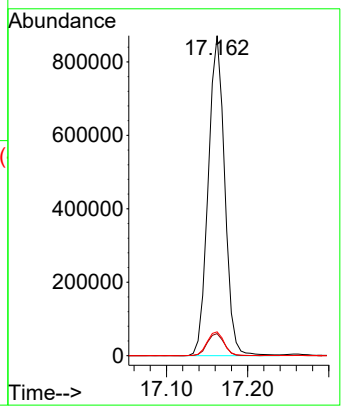


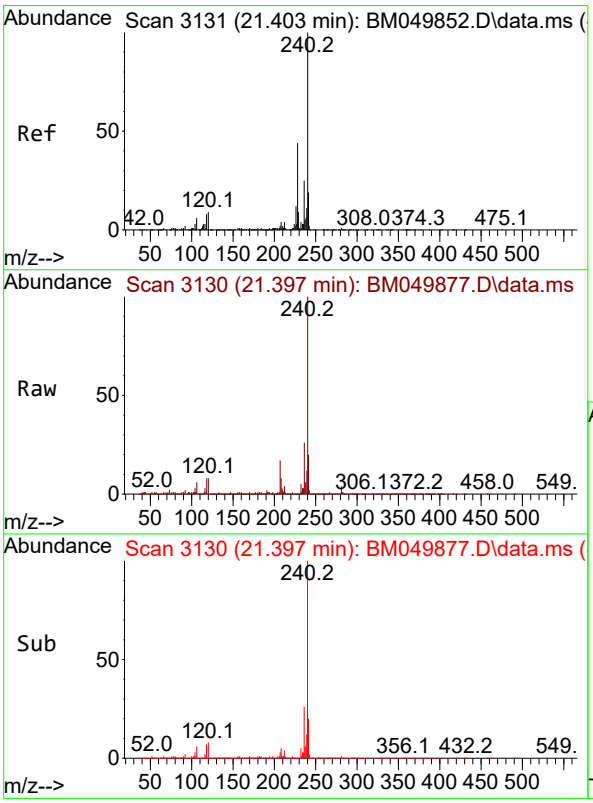
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.162 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:188 Resp: 1225291

Ion	Ratio	Lower	Upper
188	100		
94	6.9	5.8	8.6
80	7.5	6.4	9.6

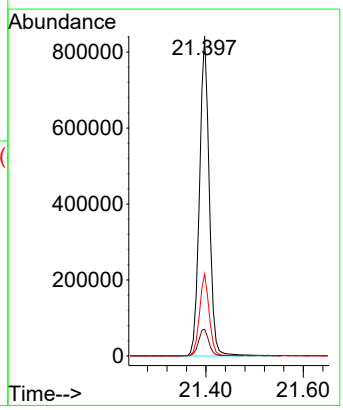


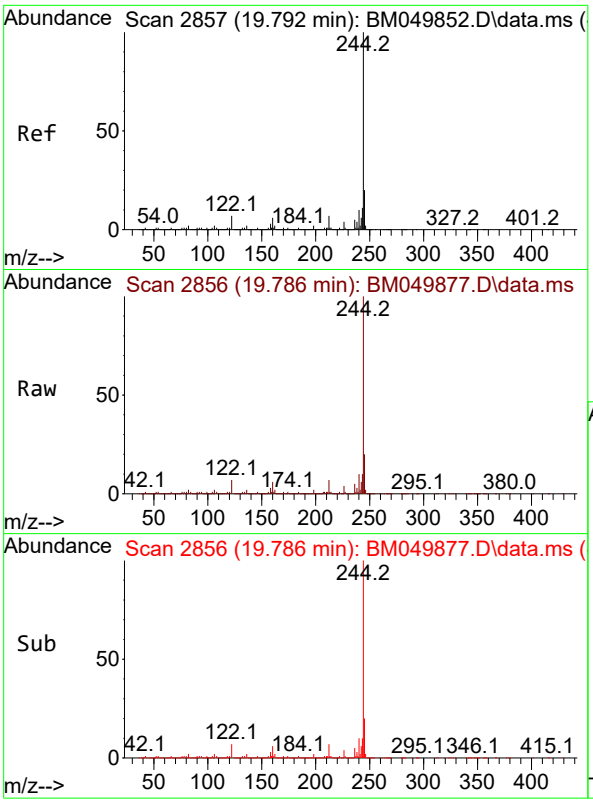


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:240 Resp: 1173504

Ion	Ratio	Lower	Upper
240	100		
120	8.4	6.9	10.3
236	25.6	20.4	30.6



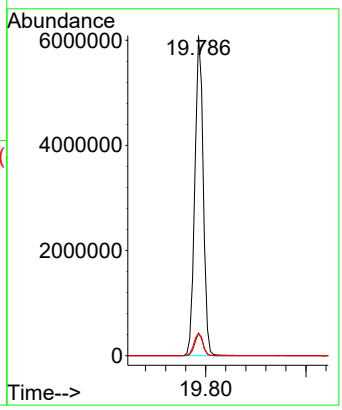


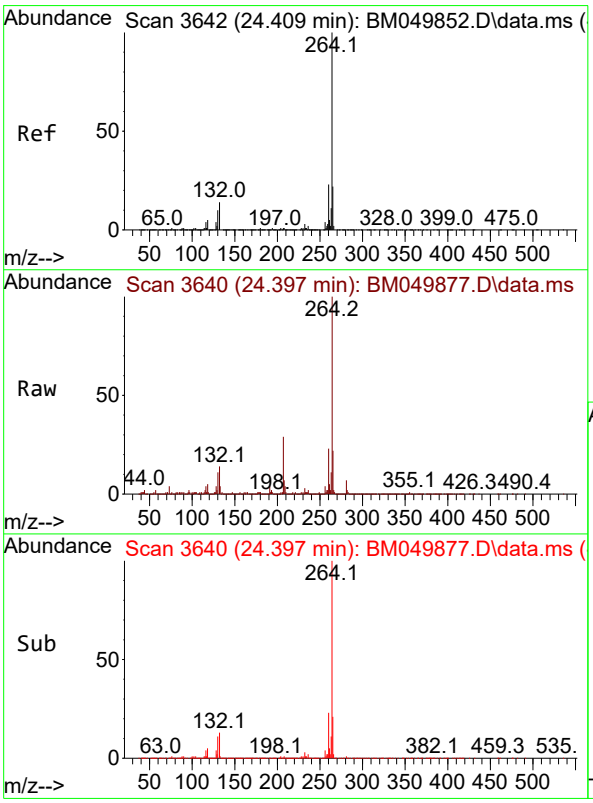
#79
Terphenyl-d14
Concen: 112.339 ng
RT: 19.786 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Tgt Ion:244 Resp: 7034521

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	7.0	5.4	8.0

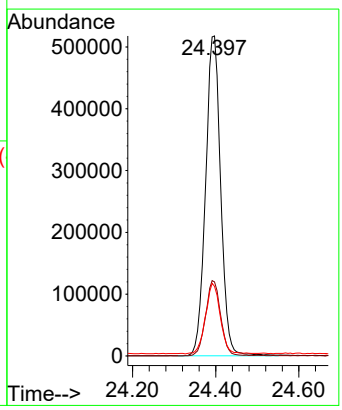




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.397 min Scan# 3640
Delta R.T. -0.012 min
Lab File: BM049877.D
Acq: 10 Apr 2025 10:11

Tgt Ion:264 Resp: 1306478

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.8	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

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_M\Methods\8270-BM040825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM049877.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.893	319	324	334	rVB	646700	865751	4.95%	1.128%
2	5.363	397	404	418	rBV	5708587	7953113	45.44%	10.360%
3	6.951	667	674	686	rBV	5127694	7849371	44.85%	10.225%
4	7.775	807	814	826	rVB	1049123	1640539	9.37%	2.137%
5	8.933	1003	1011	1022	rBV	3032859	4957314	28.33%	6.457%
6	10.569	1281	1289	1302	rBV	1182597	2019525	11.54%	2.631%
7	13.039	1700	1709	1724	rBV	8747013	12190336	69.66%	15.879%
8	14.421	1936	1944	1959	rBV	1754162	2616740	14.95%	3.409%
9	15.909	2190	2197	2216	rBV	6670855	9261965	52.92%	12.065%
10	17.162	2404	2410	2422	rBV	1998943	2845156	16.26%	3.706%
11	18.062	2558	2563	2578	rBV	216597	490971	2.81%	0.640%
12	19.339	2776	2780	2789	rBV2	174301	362861	2.07%	0.473%
13	19.786	2851	2856	2869	rBV	14999522	17500587	100.00%	22.796%
14	21.397	3125	3130	3142	rVB	2153994	2970766	16.98%	3.870%
15	24.397	3632	3640	3650	rVB	1302019	3244234	18.54%	4.226%

Sum of corrected areas: 76769229

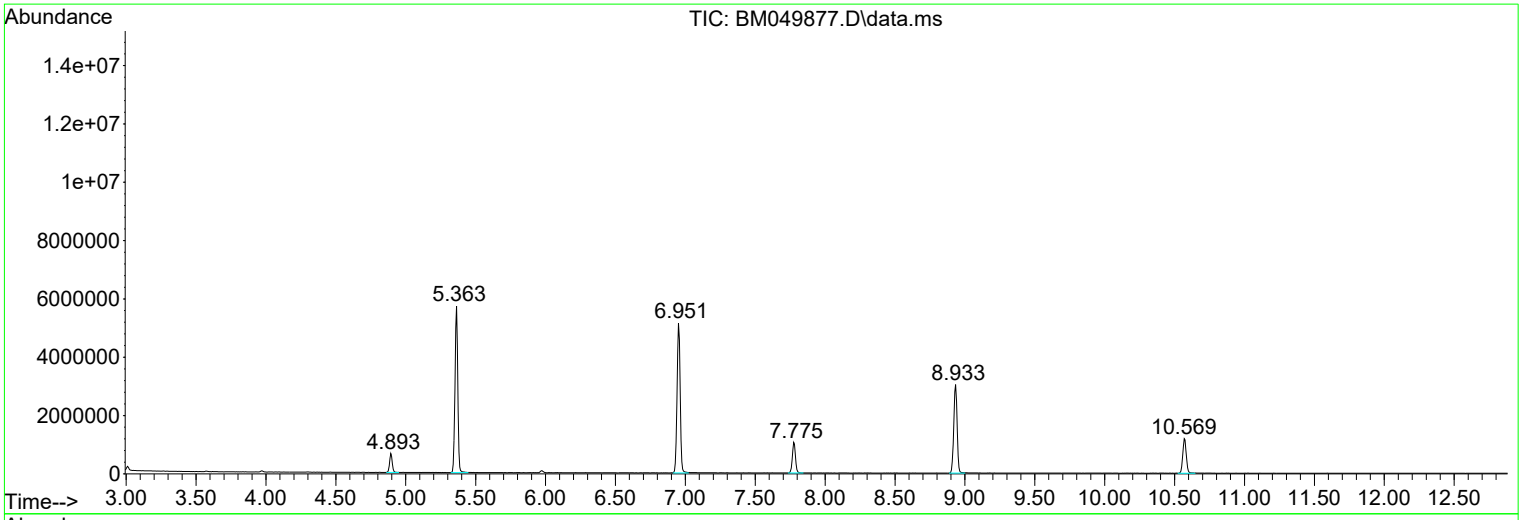
Sample Results: **BM049877.D**

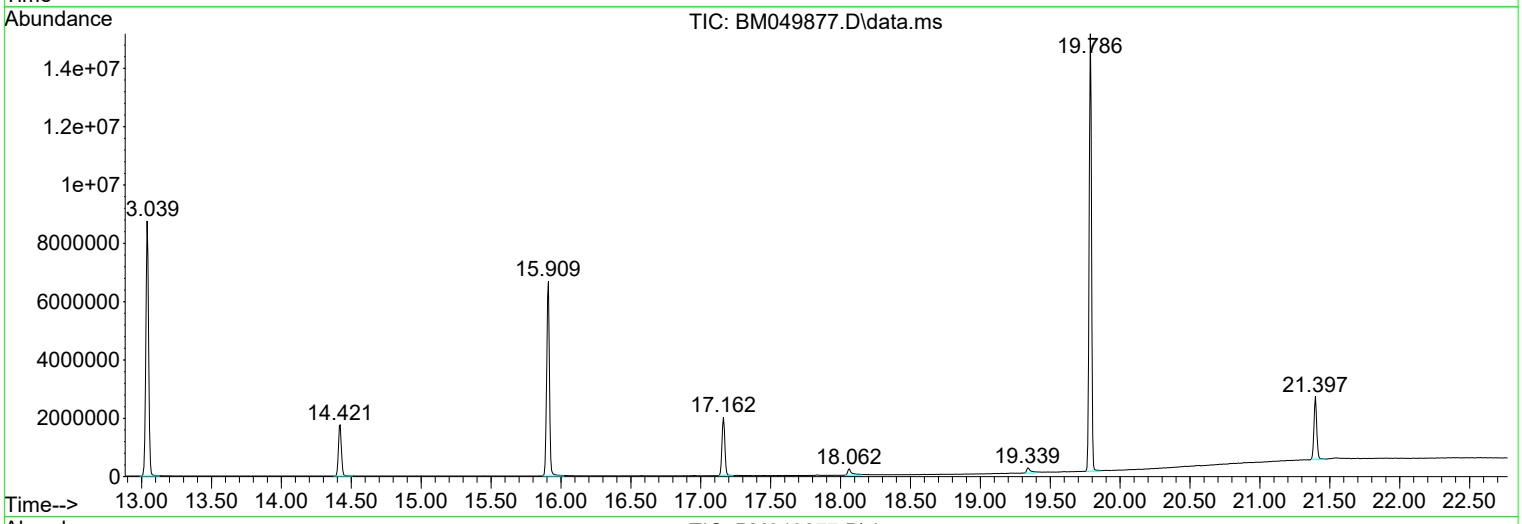
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

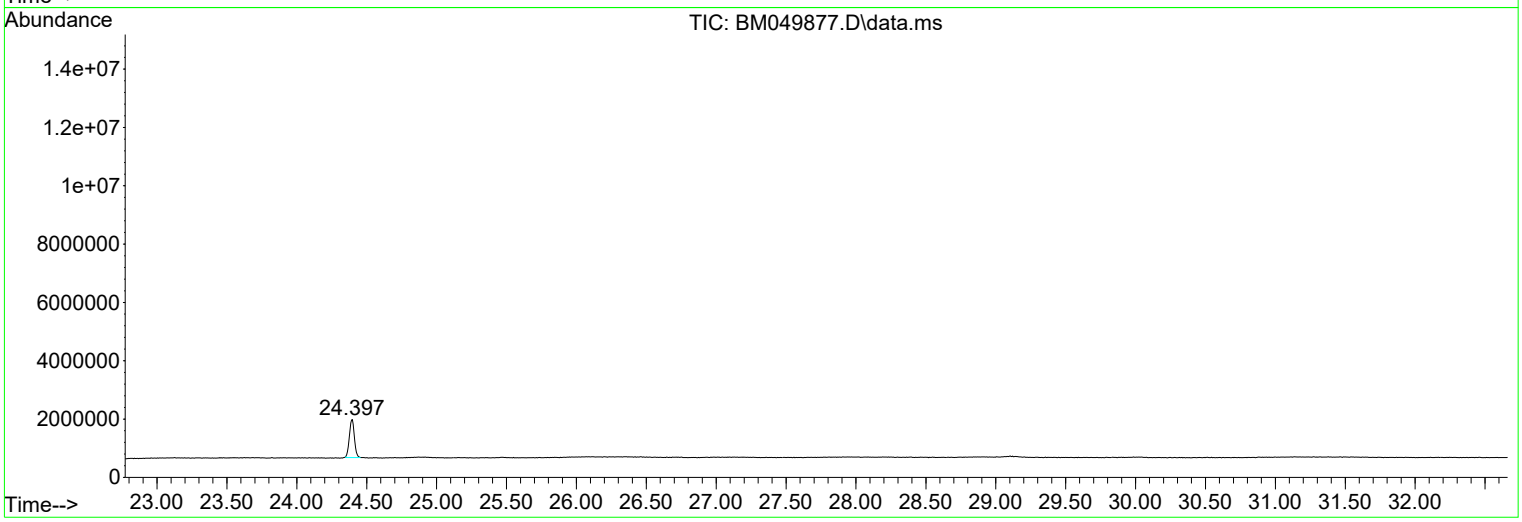
Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.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_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

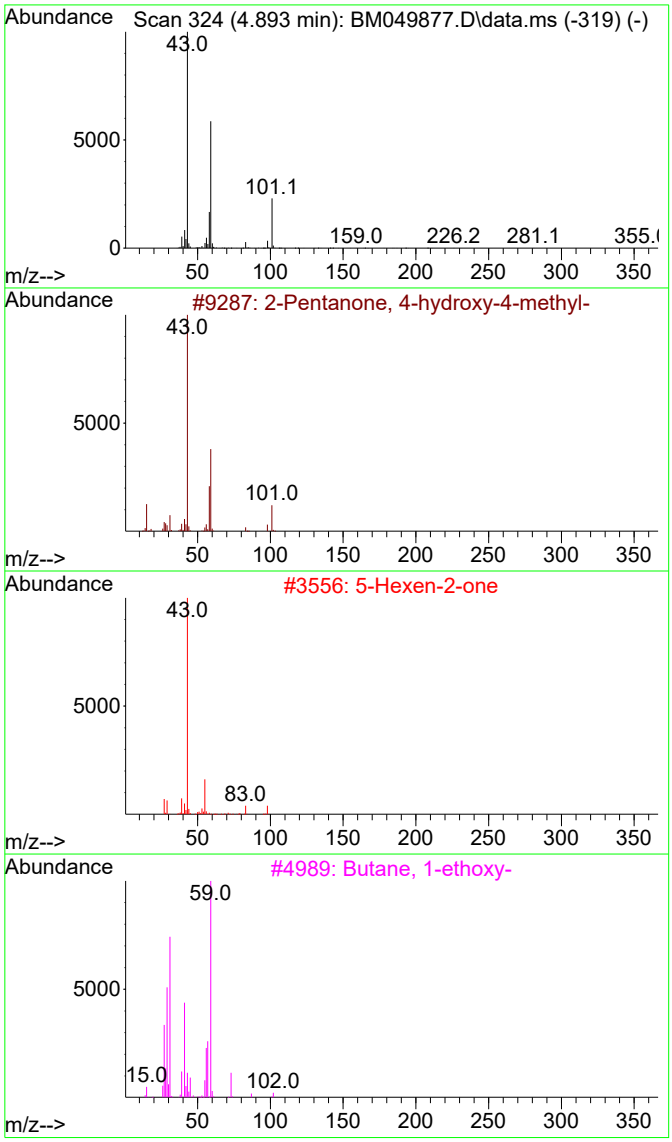
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

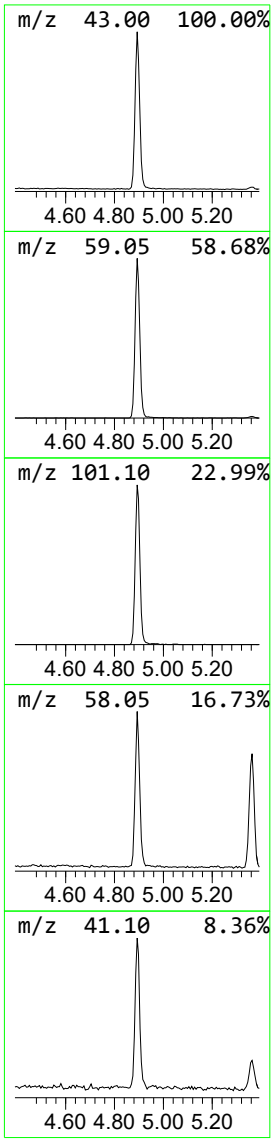
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.893	10.55 ng	865751	1,4-Dichlorobenzene-d4	7.775

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	5-Hexen-2-one	98	C6H10O	000109-49-9	9
3	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	Acetone	58	C3H6O	000067-64-1	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

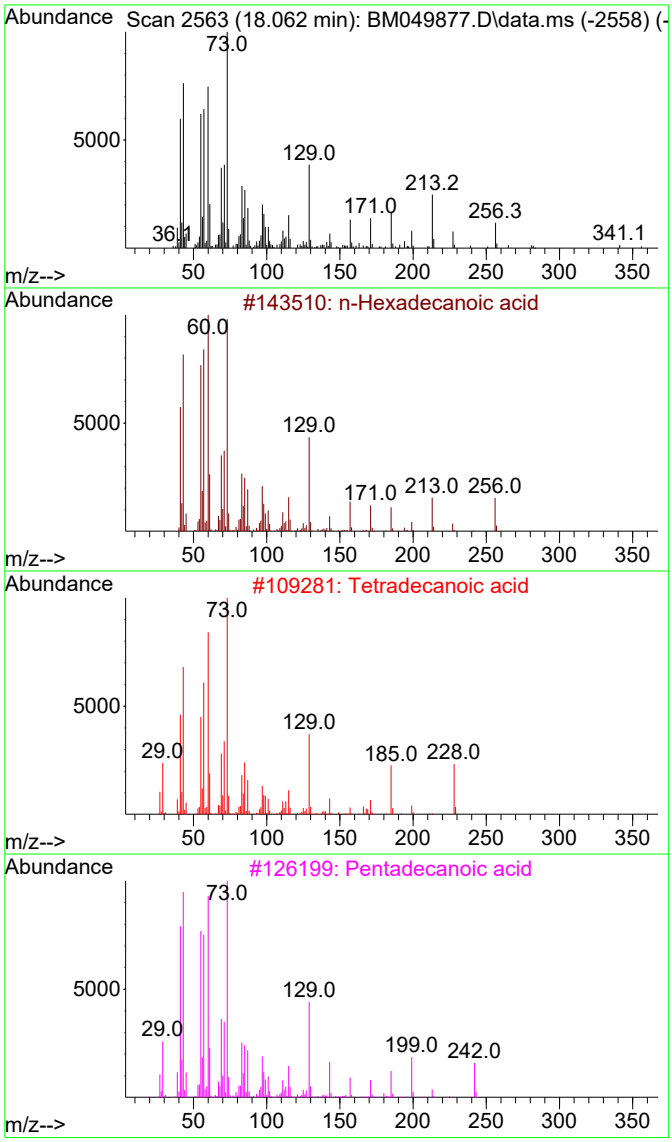
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

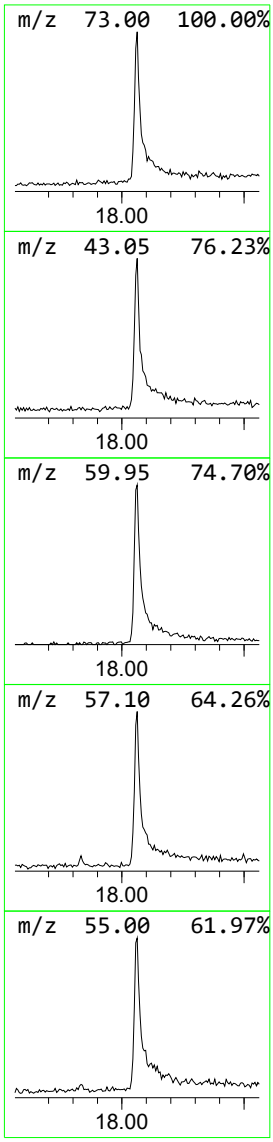
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.062	3.45 ng	490971	Phenanthrene-d10	17.162

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	Tridecanoic acid	214	C13H26O2	000638-53-9	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

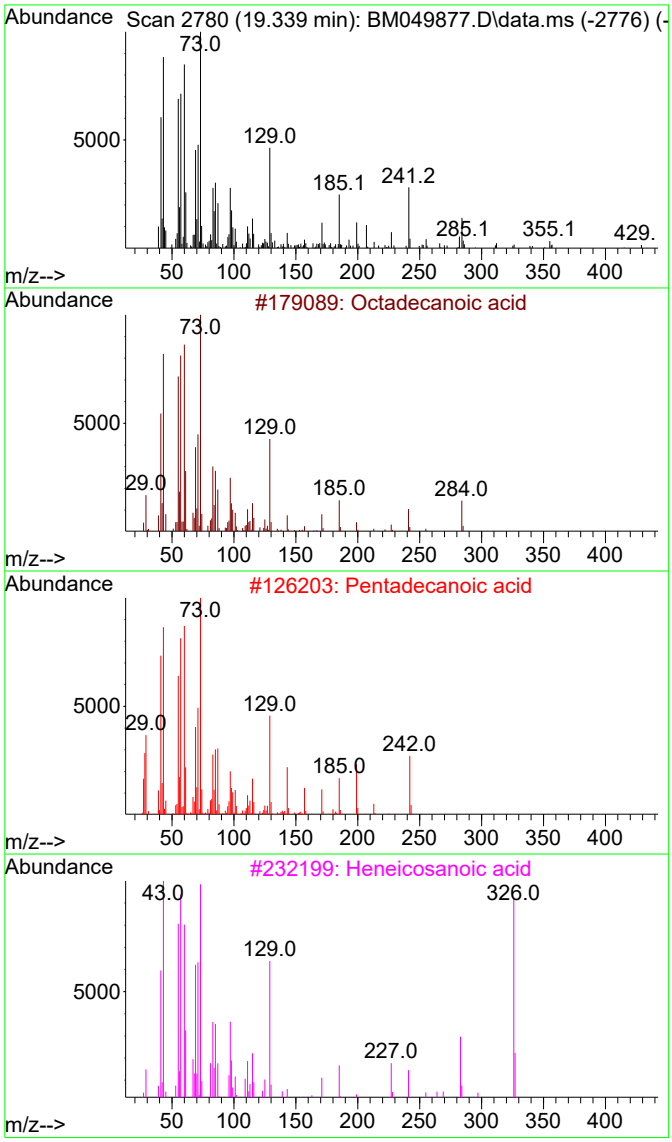
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

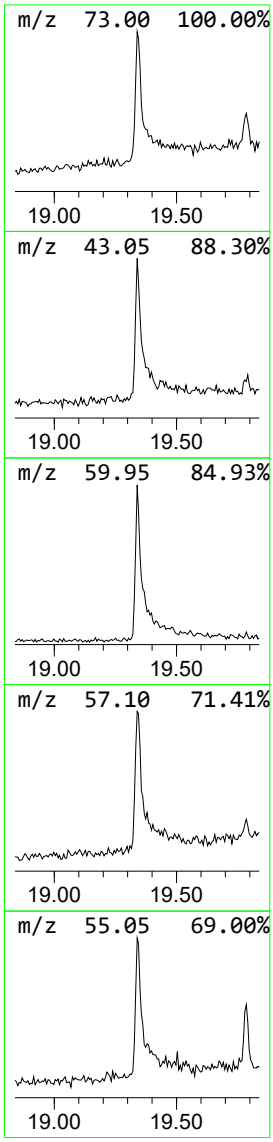
****

Peak Number 3 Octadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.339	2.44 ng	362861	Chrysene-d12	21.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Heneicosanoic acid	326	C21H42O2	002363-71-5	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041025\
Data File : BM049877.D
Acq On : 10 Apr 2025 10:11
Operator : RC/JU
Sample : PB167509BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167509BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.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
2-Pentanone, 4-...	4.893	10.6	ng	865751	1	7.775	1640540	20.0
n-Hexadecanoic ...	18.062	3.5	ng	490971	4	17.162	2845160	20.0
Octadecanoic acid	19.339	2.4	ng	362861	5	21.397	2970770	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.769	152	335569	20.000	ng		-0.01
21) Naphthalene-d8	10.563	136	1154159	20.000	ng		-0.01
39) Acenaphthene-d10	14.416	164	723173	20.000	ng		0.00
64) Phenanthrene-d10	17.157	188	1408528	20.000	ng		0.00
76) Chrysene-d12	21.404	240	1396785	20.000	ng		0.00
86) Perylene-d12	24.403	264	1468801	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.358	112	2517914	127.414	ng		0.00
7) Phenol-d6	6.952	99	3087375	125.568	ng		0.00
23) Nitrobenzene-d5	8.928	82	1807121	87.189	ng		0.00
42) 2,4,6-Tribromophenol	15.910	330	1524489	144.930	ng		0.00
45) 2-Fluorobiphenyl	13.034	172	4755133	89.163	ng		-0.01
79) Terphenyl-d14	19.786	244	7545930	101.243	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.252	88	285236	35.047	ng		99
3) Pyridine	3.652	79	801586	37.487	ng		99
4) n-Nitrosodimethylamine	3.564	42	348421	42.817	ng		100
6) Aniline	7.099	93	802210	38.077	ng		100
8) 2-Chlorophenol	7.340	128	926757	45.761	ng		99
9) Benzaldehyde	6.910	77	410086	32.502	ng		99
10) Phenol	6.981	94	1092338	45.526	ng		98
11) bis(2-Chloroethyl)ether	7.193	93	862929	45.862	ng		100
12) 1,3-Dichlorobenzene	7.657	146	1062242	44.365	ng		98
13) 1,4-Dichlorobenzene	7.805	146	1072356	44.511	ng		99
14) 1,2-Dichlorobenzene	8.122	146	1029815	45.382	ng		99
15) Benzyl Alcohol	8.016	79	709628	45.834	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.293	45	1007433	48.038	ng		98
17) 2-Methylphenol	8.222	107	711381	48.112	ng		99
18) Hexachloroethane	8.846	117	374982	44.738	ng		99
19) n-Nitroso-di-n-propyla...	8.581	70	626211	45.985	ng		99
20) 3+4-Methylphenols	8.552	107	954078	47.329	ng		99
22) Acetophenone	8.593	105	1241485	44.260	ng	#	99
24) Nitrobenzene	8.969	77	897029	44.947	ng		99
25) Isophorone	9.499	82	1683372	48.483	ng		99
26) 2-Nitrophenol	9.681	139	487144	46.053	ng		99
27) 2,4-Dimethylphenol	9.751	122	789352	65.846	ng		98
28) bis(2-Chloroethoxy)met...	9.975	93	1054935	45.383	ng		99
29) 2,4-Dichlorophenol	10.228	162	904031	45.368	ng		98
30) 1,2,4-Trichlorobenzene	10.428	180	1025903	44.503	ng		99
31) Naphthalene	10.616	128	2556936	43.115	ng		99
32) Benzoic acid	9.899	122	510676m	36.793	ng		
33) 4-Chloroaniline	10.728	127	517747	24.724	ng		98
34) Hexachlorobutadiene	10.904	225	658407	46.174	ng		98
35) Caprolactam	11.516	113	251400	43.988	ng		99
36) 4-Chloro-3-methylphenol	11.869	107	793616	45.467	ng		99
37) 2-Methylnaphthalene	12.228	142	1684399	40.312	ng		100
38) 1-Methylnaphthalene	12.451	142	1758489	43.198	ng		100
40) 1,2,4,5-Tetrachloroben...	12.604	216	1167474	46.145	ng		99
41) Hexachlorocyclopentadiene	12.581	237	1433013	161.644	ng		98
43) 2,4,6-Trichlorophenol	12.851	196	772469	47.982	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.928	196	833745	47.656	ng	99
46) 1,1'-Biphenyl	13.245	154	2422318	45.059	ng	100
47) 2-Chloronaphthalene	13.287	162	1925861	45.579	ng	98
48) 2-Nitroaniline	13.492	65	474869	48.580	ng	99
49) Acenaphthylene	14.139	152	3047254	49.510	ng	99
50) Dimethylphthalate	13.875	163	2358862	46.235	ng	100
51) 2,6-Dinitrotoluene	13.992	165	515213	48.200	ng	97
52) Acenaphthene	14.481	154	1764030	45.059	ng	99
53) 3-Nitroaniline	14.322	138	351369	34.011	ng	97
54) 2,4-Dinitrophenol	14.539	184	668125	85.742	ng	97
55) Dibenzofuran	14.816	168	2892823	44.201	ng	98
56) 4-Nitrophenol	14.651	139	879693	95.553	ng	99
57) 2,4-Dinitrotoluene	14.786	165	725380	50.868	ng	95
58) Fluorene	15.463	166	2409614	46.319	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	711309	46.388	ng	97
60) Diethylphthalate	15.239	149	2190399	44.769	ng	99
61) 4-Chlorophenyl-phenyle...	15.457	204	1302004	46.682	ng	99
62) 4-Nitroaniline	15.486	138	502922	47.073	ng	99
63) Azobenzene	15.751	77	1866693	44.564	ng	97
65) 4,6-Dinitro-2-methylph...	15.551	198	437036	49.238	ng	98
66) n-Nitrosodiphenylamine	15.675	169	2034520	48.266	ng	99
67) 4-Bromophenyl-phenylether	16.351	248	790083	48.319	ng	97
68) Hexachlorobenzene	16.475	284	919430	49.022	ng	99
69) Atrazine	16.627	200	731486	66.929	ng	98
70) Pentachlorophenol	16.816	266	1280079	92.705	ng	100
71) Phenanthrene	17.204	178	3723574	48.220	ng	100
72) Anthracene	17.292	178	3775775	49.616	ng	100
73) Carbazole	17.563	167	3426685	47.807	ng	99
74) Di-n-butylphthalate	18.127	149	3828697	46.376	ng	99
75) Fluoranthene	19.221	202	4496471	47.358	ng	99
77) Benzidine	19.404	184	1898133	102.434	ng	100
78) Pyrene	19.580	202	4650588	48.311	ng	100
80) Butylbenzylphthalate	20.480	149	1697848	46.939	ng	99
81) Benzo(a)anthracene	21.386	228	4535328	48.856	ng	100
82) 3,3'-Dichlorobenzidine	21.304	252	1250970	35.685	ng	99
83) Chrysene	21.445	228	4184241	47.411	ng	99
84) Bis(2-ethylhexyl)phtha...	21.304	149	2394124	45.429	ng	98
85) Di-n-octyl phthalate	22.439	149	4115837	44.642	ng	100
87) Indeno(1,2,3-cd)pyrene	27.809	276	5360089	48.957	ng	99
88) Benzo(b)fluoranthene	23.462	252	4436790	47.297	ng	99
89) Benzo(k)fluoranthene	23.521	252	4265178	46.919	ng	100
90) Benzo(a)pyrene	24.268	252	4193597	50.874	ng	99
91) Dibenzo(a,h)anthracene	27.856	278	4387155	48.647	ng	99
92) Benzo(g,h,i)perylene	28.862	276	4256093	46.184	ng	99

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

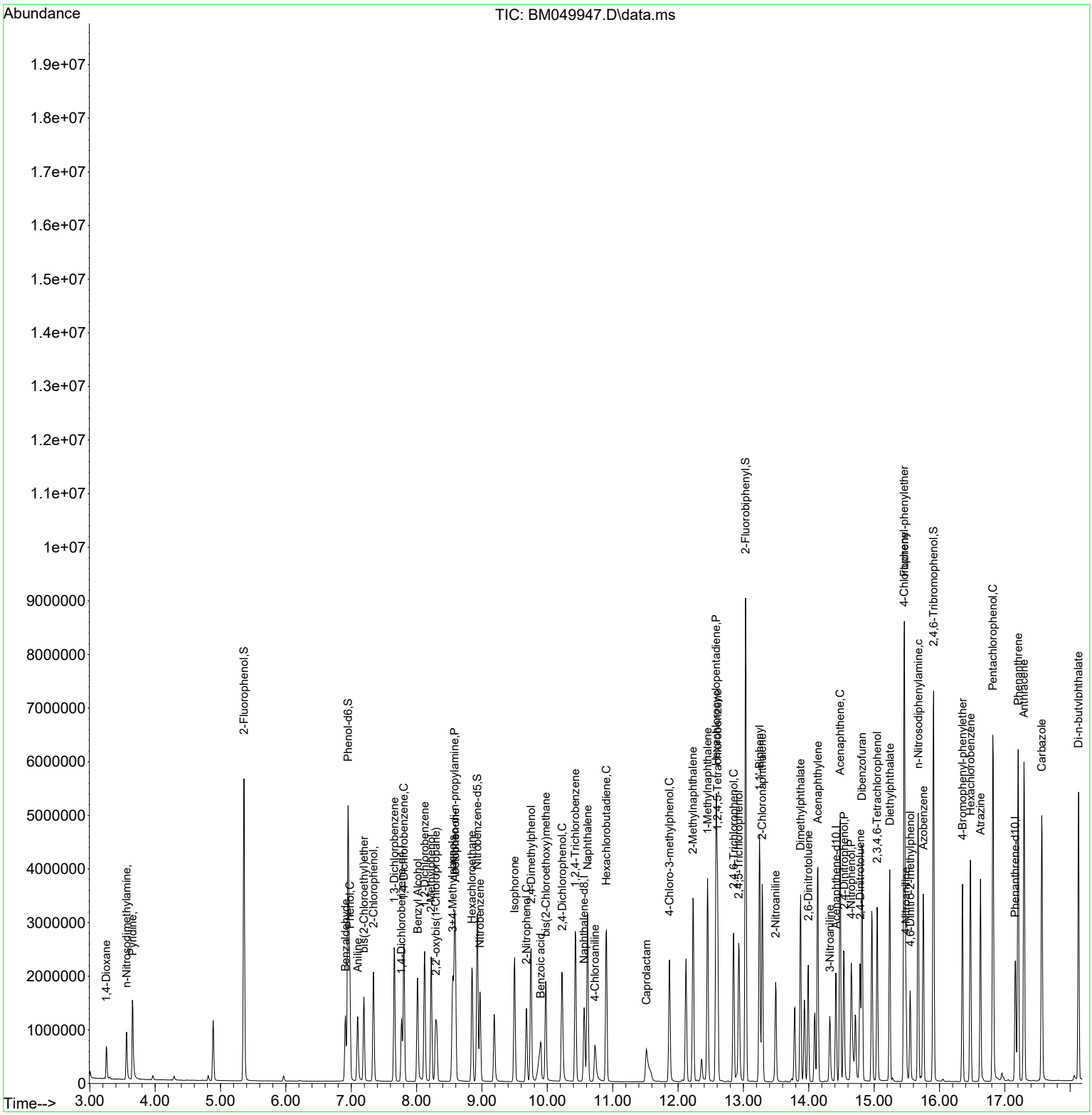
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Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025



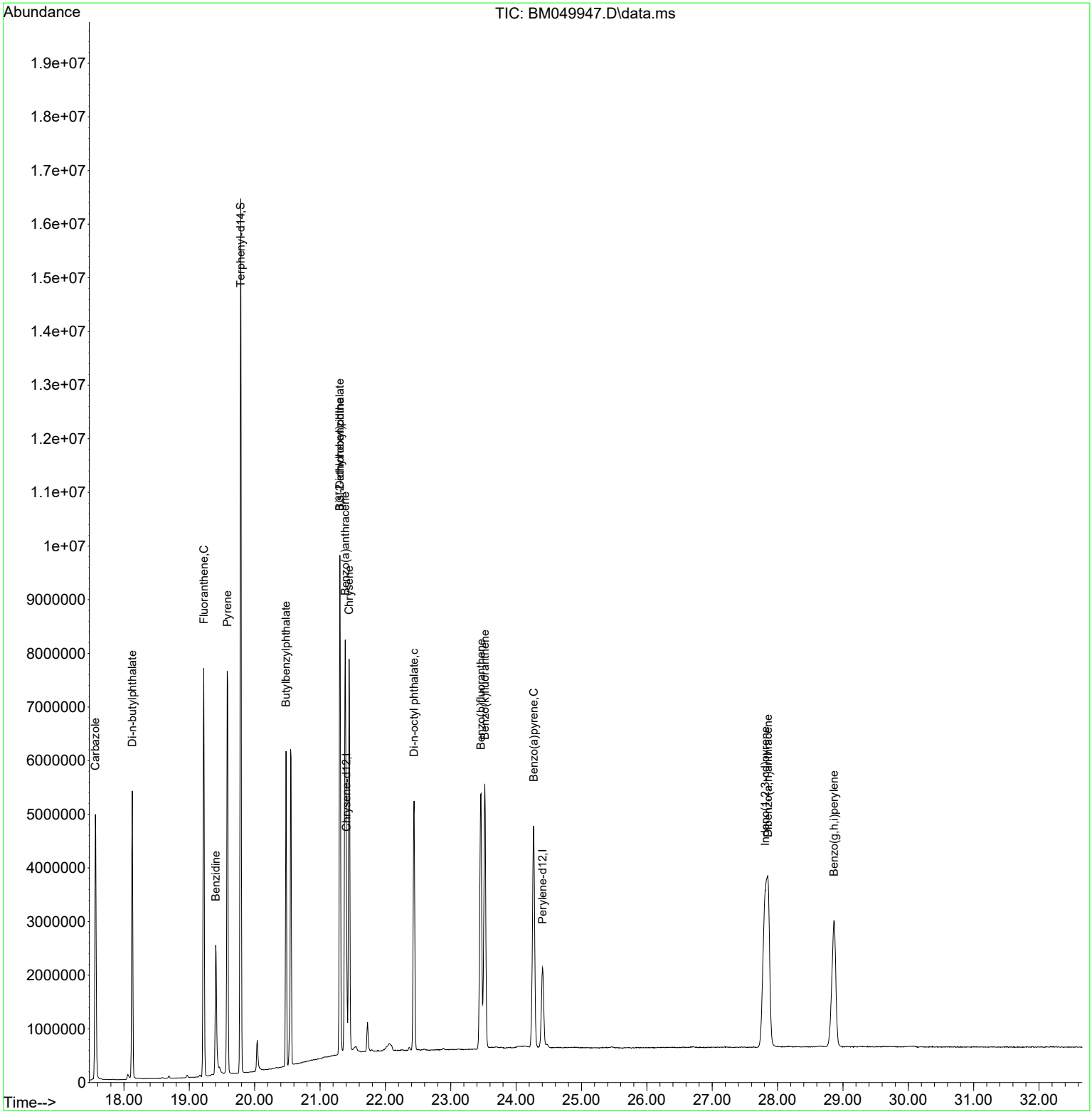
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049947.D
Acq On : 16 Apr 2025 11:26
Operator : RC/JU
Sample : PB167509BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 16 12:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB167509BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/17/2025
Supervised By :Jagrut Upadhyay 04/17/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	298114	20.000	ng		0.00
21) Naphthalene-d8	10.569	136	1050152	20.000	ng		0.00
39) Acenaphthene-d10	14.421	164	691142	20.000	ng		0.00
64) Phenanthrene-d10	17.162	188	1385053	20.000	ng		0.00
76) Chrysene-d12	21.398	240	1462184	20.000	ng		0.00
86) Perylene-d12	24.391	264	1514539	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2155451	122.776	ng		0.00
7) Phenol-d6	6.951	99	2724158	124.716	ng		0.00
23) Nitrobenzene-d5	8.934	82	1562799	82.869	ng		0.00
42) 2,4,6-Tribromophenol	15.910	330	1354417	134.729	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	4162286	81.663	ng		0.00
79) Terphenyl-d14	19.786	244	6978001	89.436	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.257	88	309728	42.838	ng		99
3) Pyridine	3.657	79	835012	43.957	ng		99
4) n-Nitrosodimethylamine	3.563	42	327410	45.290	ng		97
6) Aniline	7.104	93	421157	22.502	ng		99
8) 2-Chlorophenol	7.345	128	863377	47.988	ng		99
9) Benzaldehyde	6.916	77	478135	42.656	ng		98
10) Phenol	6.975	94	1072705	50.325	ng		99
11) bis(2-Chloroethyl)ether	7.198	93	779707	46.646	ng		98
12) 1,3-Dichlorobenzene	7.663	146	989476	46.518	ng		98
13) 1,4-Dichlorobenzene	7.810	146	994756	46.478	ng		100
14) 1,2-Dichlorobenzene	8.128	146	951142	47.181	ng		99
15) Benzyl Alcohol	8.016	79	687559	49.988	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.304	45	912146	48.959	ng		99
17) 2-Methylphenol	8.222	107	671680	51.134	ng		98
18) Hexachloroethane	8.857	117	347778	46.705	ng		99
19) n-Nitroso-di-n-propyla...	8.581	70	585438	48.392	ng		99
20) 3+4-Methylphenols	8.551	107	921924	51.480	ng		99
22) Acetophenone	8.598	105	1181375	46.289	ng	#	99
24) Nitrobenzene	8.975	77	842536	46.397	ng		98
25) Isophorone	9.504	82	1587310	50.244	ng		99
26) 2-Nitrophenol	9.686	139	447885	46.535	ng		99
27) 2,4-Dimethylphenol	9.751	122	756789	69.382	ng		99
28) bis(2-Chloroethoxy)met...	9.981	93	998019	47.187	ng		99
29) 2,4-Dichlorophenol	10.222	162	867930	47.870	ng		98
30) 1,2,4-Trichlorobenzene	10.434	180	953445	45.456	ng		99
31) Naphthalene	10.622	128	2418053	44.811	ng		99
32) Benzoic acid	9.886	122	566179	42.966	ng		98
33) 4-Chloroaniline	10.728	127	212114	11.132	ng		99
34) Hexachlorobutadiene	10.910	225	592511	45.668	ng		99
35) Caprolactam	11.510	113	244776	47.070	ng		95
36) 4-Chloro-3-methylphenol	11.863	107	780324	49.133	ng		99
37) 2-Methylnaphthalene	12.233	142	1605733	42.235	ng		100
38) 1-Methylnaphthalene	12.457	142	1688879	45.597	ng		100
40) 1,2,4,5-Tetrachloroben...	12.610	216	1105688	45.728	ng		99
41) Hexachlorocyclopentadiene	12.592	237	1498293	176.840	ng		100
43) 2,4,6-Trichlorophenol	12.851	196	737476	47.931	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

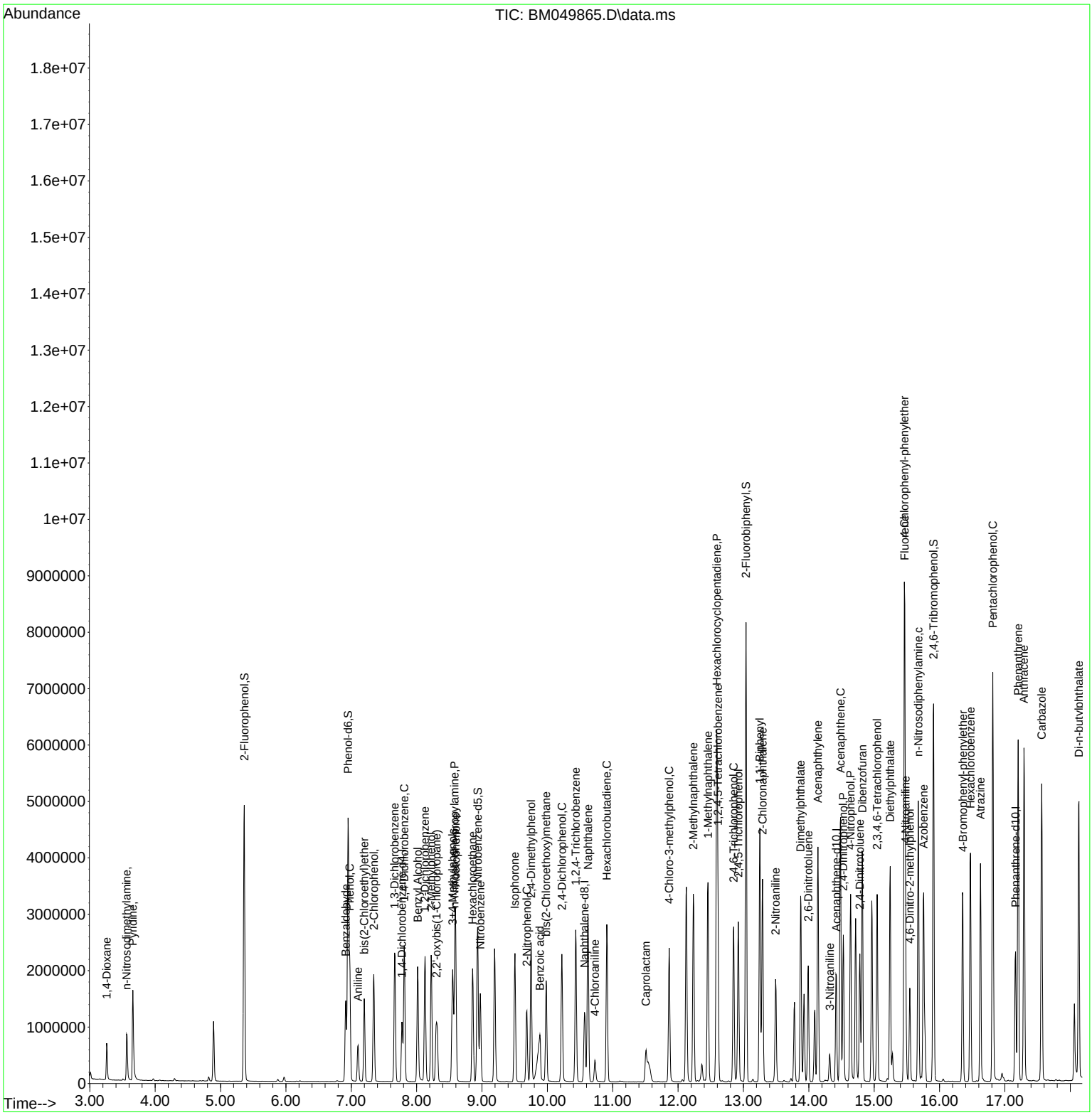
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.922	196	799432	47.812	ng	99
46) 1,1'-Biphenyl	13.251	154	2353870	45.815	ng	100
47) 2-Chloronaphthalene	13.292	162	1863914	46.157	ng	99
48) 2-Nitroaniline	13.492	65	458167	49.043	ng	98
49) Acenaphthylene	14.139	152	2960303	50.326	ng	99
50) Dimethylphthalate	13.874	163	2262384	46.399	ng	99
51) 2,6-Dinitrotoluene	13.992	165	490899	48.053	ng	98
52) Acenaphthene	14.486	154	1735053	46.372	ng	99
53) 3-Nitroaniline	14.321	138	132704	13.440	ng	100
54) 2,4-Dinitrophenol	14.527	184	621378	83.632	ng	98
55) Dibenzofuran	14.821	168	2807021	44.878	ng	98
56) 4-Nitrophenol	14.639	139	930802	105.790	ng	100
57) 2,4-Dinitrotoluene	14.780	165	697374	51.170	ng	97
58) Fluorene	15.468	166	2361809	47.504	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	689387	47.041	ng	99
60) Diethylphthalate	15.245	149	2130155	45.556	ng	99
61) 4-Chlorophenyl-phenyle...	15.463	204	1275390	47.847	ng	99
62) 4-Nitroaniline	15.480	138	451987	44.266	ng	99
63) Azobenzene	15.757	77	2042909	51.031	ng	98
65) 4,6-Dinitro-2-methylph...	15.545	198	401583	46.011	ng	99
66) n-Nitrosodiphenylamine	15.674	169	1992233	48.064	ng	100
67) 4-Bromophenyl-phenylether	16.357	248	755272	46.973	ng	96
68) Hexachlorobenzene	16.474	284	874487	47.416	ng	98
69) Atrazine	16.627	200	726702	67.619	ng	97
70) Pentachlorophenol	16.815	266	1316399	96.951	ng	99
71) Phenanthrene	17.204	178	3664770	48.263	ng	100
72) Anthracene	17.292	178	3737841	49.950	ng	100
73) Carbazole	17.562	167	3424599	48.588	ng	100
74) Di-n-butylphthalate	18.133	149	3797075	46.773	ng	99
75) Fluoranthene	19.221	202	4521849	48.432	ng	98
77) Benzidine	19.404	184	1817127	93.676	ng	100
78) Pyrene	19.580	202	4732548	46.963	ng	99
80) Butylbenzylphthalate	20.480	149	1682886	44.444	ng	99
81) Benzo(a)anthracene	21.380	228	4823789	49.640	ng	99
82) 3,3'-Dichlorobenzidine	21.303	252	545235	14.857	ng	100
83) Chrysene	21.445	228	4624441	50.056	ng	99
84) Bis(2-ethylhexyl)phtha...	21.309	149	2462859	44.643	ng	99
85) Di-n-octyl phthalate	22.439	149	4144598	42.944	ng	100
87) Indeno(1,2,3-cd)pyrene	27.779	276	5555016	49.205	ng	99
88) Benzo(b)fluoranthene	23.450	252	4850380	50.145	ng	99
89) Benzo(k)fluoranthene	23.515	252	4897679	52.250	ng	100
90) Benzo(a)pyrene	24.256	252	4441609	52.256	ng	99
91) Dibenzo(a,h)anthracene	27.832	278	4529739	48.712	ng	100
92) Benzo(g,h,i)perylene	28.832	276	4410499	46.414	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

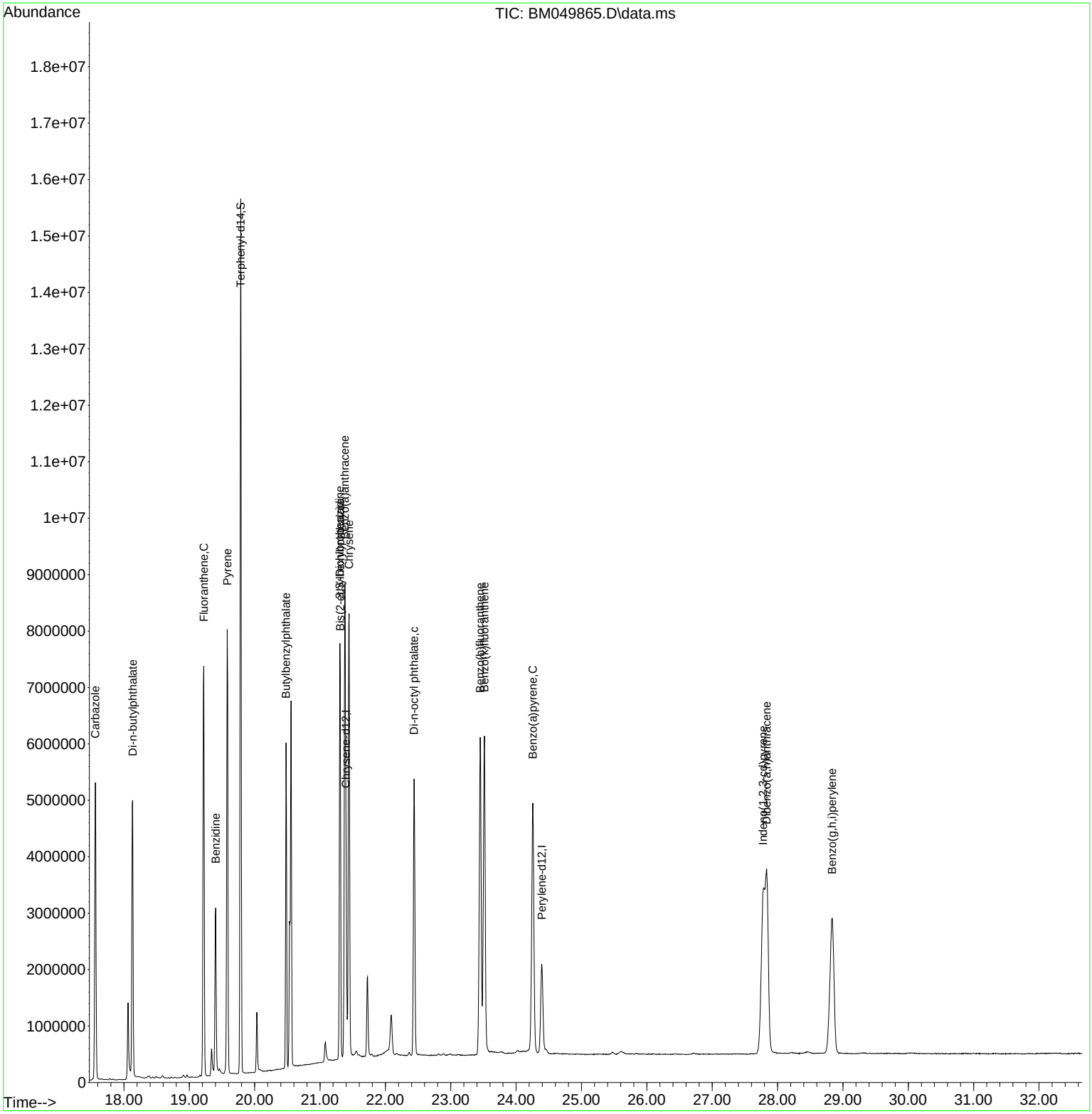
Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049865.D
Acq On : 09 Apr 2025 13:08
Operator : RC/JU
Sample : Q1744-01MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MS

Quant Time: Apr 10 01:41:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.775	152	285351	20.000	ng		0.00
21) Naphthalene-d8	10.569	136	1005761	20.000	ng		0.00
39) Acenaphthene-d10	14.421	164	663787	20.000	ng		0.00
64) Phenanthrene-d10	17.162	188	1342339	20.000	ng		0.00
76) Chrysene-d12	21.397	240	1401873	20.000	ng		0.00
86) Perylene-d12	24.391	264	1461448	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.363	112	2136954	127.167	ng		0.00
7) Phenol-d6	6.951	99	2724008	130.287	ng		0.00
23) Nitrobenzene-d5	8.933	82	1557737	86.246	ng		0.00
42) 2,4,6-Tribromophenol	15.909	330	1357374	140.587	ng		0.00
45) 2-Fluorobiphenyl	13.039	172	4170498	85.197	ng		0.00
79) Terphenyl-d14	19.786	244	6980310	93.314	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.257	88	306237	44.250	ng		99
3) Pyridine	3.657	79	824020	45.318	ng		100
4) n-Nitrosodimethylamine	3.563	42	324177	46.848	ng		97
6) Aniline	7.104	93	420957	23.497	ng		99
8) 2-Chlorophenol	7.345	128	864396	50.194	ng		98
9) Benzaldehyde	6.916	77	477912	44.543	ng		98
10) Phenol	6.975	94	1066445	52.269	ng		99
11) bis(2-Chloroethyl)ether	7.198	93	776399	48.525	ng		100
12) 1,3-Dichlorobenzene	7.663	146	980458	48.155	ng		99
13) 1,4-Dichlorobenzene	7.810	146	992255	48.434	ng		98
14) 1,2-Dichlorobenzene	8.128	146	950955	49.282	ng		99
15) Benzyl Alcohol	8.016	79	693613	52.683	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.298	45	901093	50.529	ng		99
17) 2-Methylphenol	8.222	107	672939	53.521	ng		99
18) Hexachloroethane	8.857	117	341526	47.917	ng		98
19) n-Nitroso-di-n-propyla...	8.581	70	582254	50.282	ng		99
20) 3+4-Methylphenols	8.551	107	917509	53.525	ng		99
22) Acetophenone	8.598	105	1167291	47.755	ng	#	99
24) Nitrobenzene	8.975	77	835602	48.046	ng		98
25) Isophorone	9.504	82	1576133	52.092	ng		99
26) 2-Nitrophenol	9.686	139	445919	48.376	ng		99
27) 2,4-Dimethylphenol	9.751	122	761170	72.864	ng		98
28) bis(2-Chloroethoxy)met...	9.980	93	996102	49.175	ng		99
29) 2,4-Dichlorophenol	10.222	162	874134	50.340	ng		99
30) 1,2,4-Trichlorobenzene	10.433	180	956323	47.606	ng		100
31) Naphthalene	10.622	128	2397631	46.394	ng		99
32) Benzoic acid	9.886	122	566036	44.477	ng		98
33) 4-Chloroaniline	10.727	127	220350	12.075	ng		99
34) Hexachlorobutadiene	10.910	225	588579	47.367	ng		98
35) Caprolactam	11.510	113	247722	49.739	ng		99
36) 4-Chloro-3-methylphenol	11.863	107	776696	51.063	ng		99
37) 2-Methylnaphthalene	12.233	142	1595016	43.805	ng		99
38) 1-Methylnaphthalene	12.457	142	1678627	47.320	ng		100
40) 1,2,4,5-Tetrachloroben...	12.610	216	1117353	48.115	ng		98
41) Hexachlorocyclopentadiene	12.592	237	1486422	182.669	ng		99
43) 2,4,6-Trichlorophenol	12.851	196	734045	49.674	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

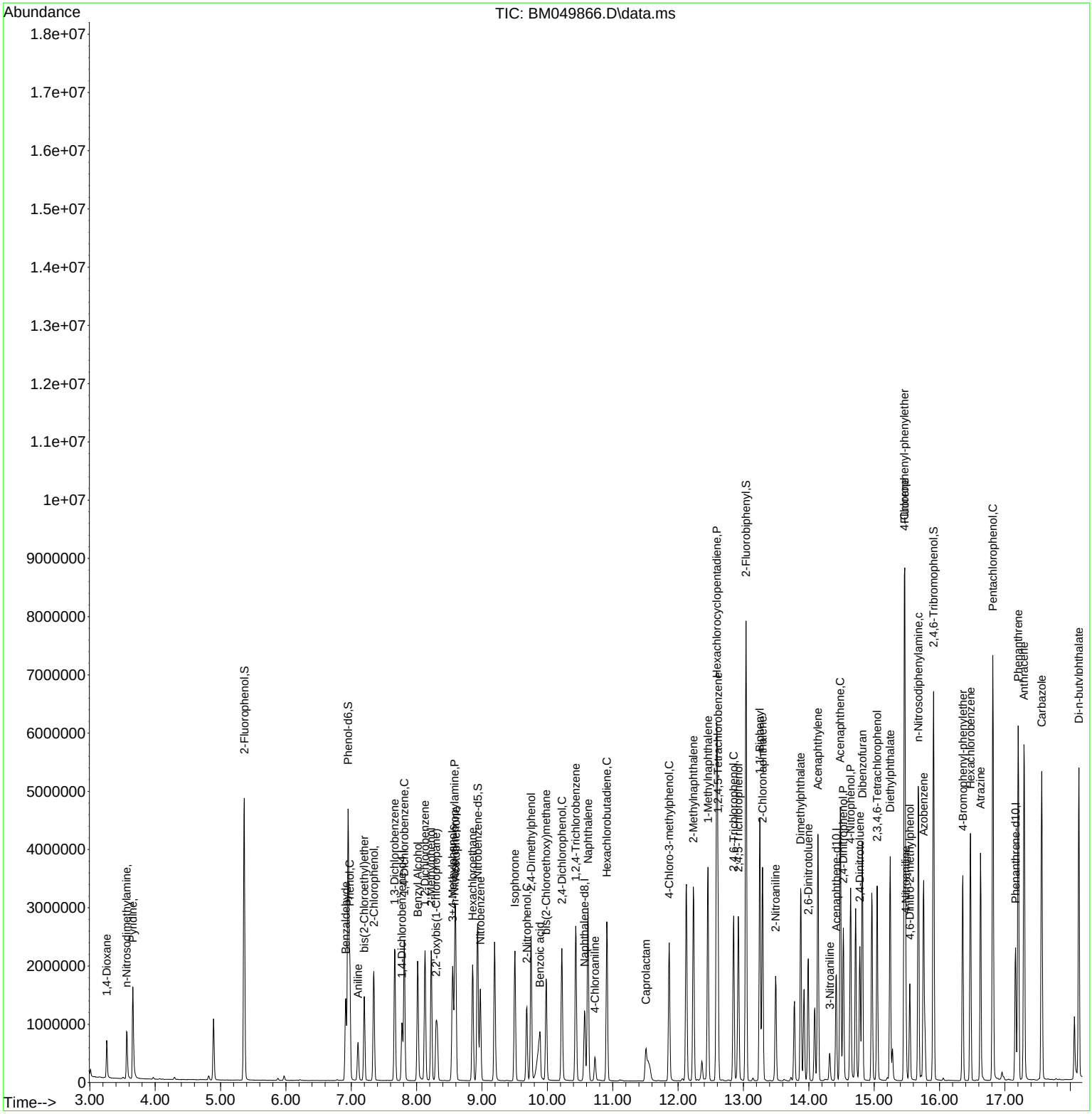
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.921	196	804889	50.122	ng	99
46) 1,1'-Biphenyl	13.251	154	2349677	47.618	ng	100
47) 2-Chloronaphthalene	13.292	162	1871890	48.265	ng	99
48) 2-Nitroaniline	13.492	65	456335	50.860	ng	98
49) Acenaphthylene	14.139	152	2972105	52.609	ng	100
50) Dimethylphthalate	13.874	163	2283140	48.754	ng	99
51) 2,6-Dinitrotoluene	13.992	165	492479	50.195	ng	99
52) Acenaphthene	14.480	154	1724643	47.994	ng	99
53) 3-Nitroaniline	14.321	138	130642	13.777	ng	98
54) 2,4-Dinitrophenol	14.527	184	629408	87.809	ng	98
55) Dibenzofuran	14.821	168	2836442	47.217	ng	98
56) 4-Nitrophenol	14.639	139	934371	110.572	ng	99
57) 2,4-Dinitrotoluene	14.780	165	698694	53.380	ng	98
58) Fluorene	15.468	166	2375933	49.757	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.045	232	692400	49.194	ng	99
60) Diethylphthalate	15.245	149	2148314	47.838	ng	99
61) 4-Chlorophenyl-phenyle...	15.462	204	1280962	50.036	ng	99
62) 4-Nitroaniline	15.486	138	455783	46.478	ng	99
63) Azobenzene	15.757	77	2029859	52.794	ng	97
65) 4,6-Dinitro-2-methylph...	15.545	198	406755	48.087	ng	99
66) n-Nitrosodiphenylamine	15.674	169	1993763	49.632	ng	99
67) 4-Bromophenyl-phenylether	16.356	248	758871	48.699	ng	96
68) Hexachlorobenzene	16.474	284	874754	48.940	ng	98
69) Atrazine	16.627	200	737371	70.795	ng	99
70) Pentachlorophenol	16.815	266	1321712	100.440	ng	99
71) Phenanthrene	17.203	178	3676782	49.961	ng	100
72) Anthracene	17.292	178	3760847	51.857	ng	100
73) Carbazole	17.562	167	3446827	50.460	ng	100
74) Di-n-butylphthalate	18.133	149	3801949	48.323	ng	100
75) Fluoranthene	19.221	202	4538028	50.152	ng	99
77) Benzidine	19.403	184	1757189	94.484	ng	99
78) Pyrene	19.580	202	4707504	48.725	ng	99
80) Butylbenzylphthalate	20.480	149	1704963	46.964	ng	100
81) Benzo(a)anthracene	21.380	228	4791802	51.432	ng	100
82) 3,3'-Dichlorobenzidine	21.303	252	548354	15.585	ng	99
83) Chrysene	21.444	228	4591192	51.834	ng	99
84) Bis(2-ethylhexyl)phtha...	21.309	149	2464666	46.598	ng	99
85) Di-n-octyl phthalate	22.438	149	4181805	45.193	ng	100
87) Indeno(1,2,3-cd)pyrene	27.779	276	5591757	51.330	ng	99
88) Benzo(b)fluoranthene	23.450	252	4901336	52.512	ng	99
89) Benzo(k)fluoranthene	23.515	252	4863511	53.770	ng	100
90) Benzo(a)pyrene	24.256	252	4421640	53.910	ng	99
91) Dibenzo(a,h)anthracene	27.832	278	4528137	50.463	ng	100
92) Benzo(g,h,i)perylene	28.838	276	4423237	48.240	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

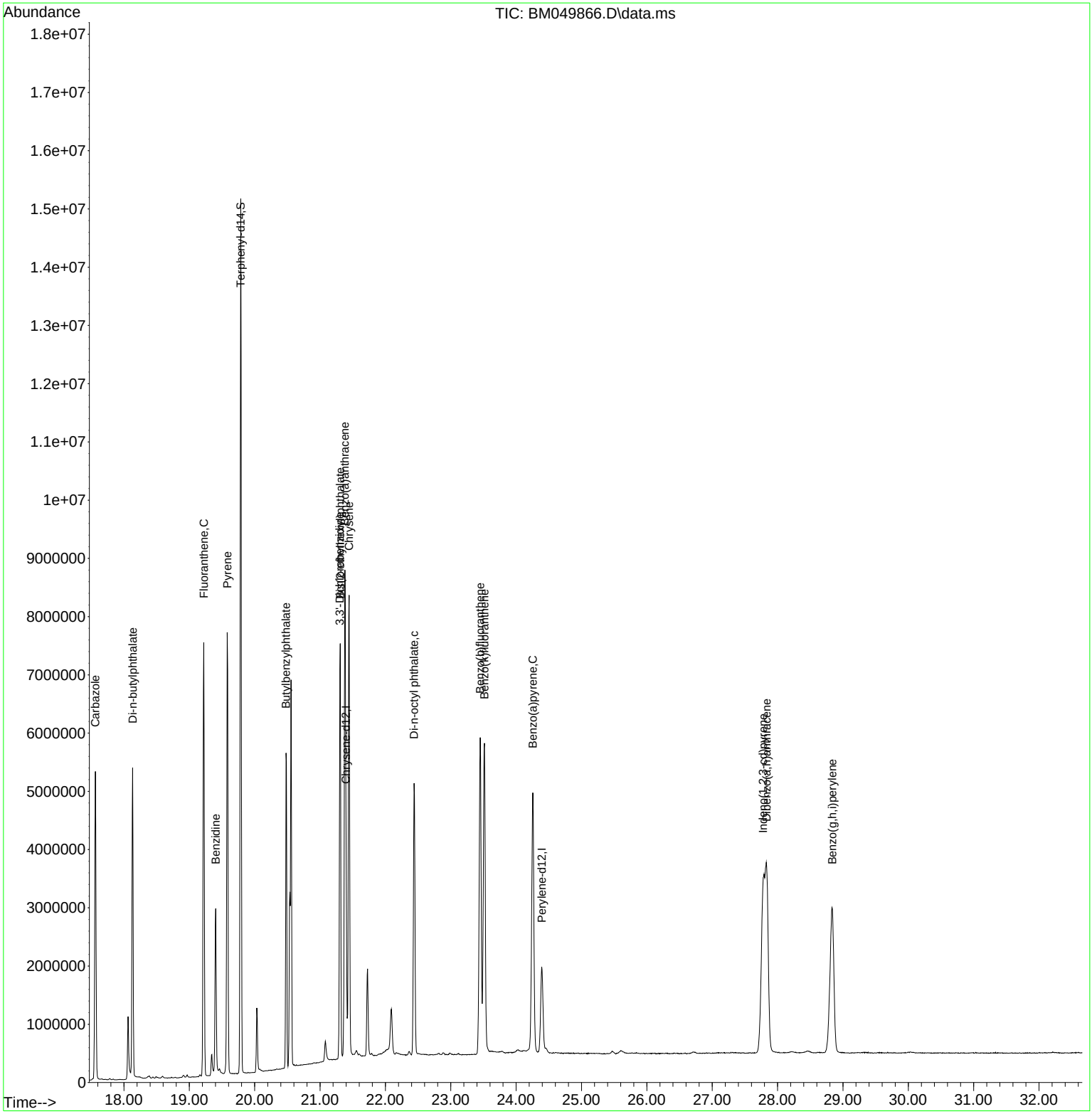
Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
Data File : BM049866.D
Acq On : 09 Apr 2025 13:47
Operator : RC/JU
Sample : Q1744-01MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-158-SB01MSD

Quant Time: Apr 10 01:42:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	BM040825	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM049849.D	Benzaldehyde	anahy	4/9/2025 10:32:06 AM	Jagrut	4/9/2025 4:46:22 PM	Peak Integrated by Software
SSTDICC010	BM049850.D	Benzoic acid	anahy	4/9/2025 10:32:44 AM	Jagrut	4/9/2025 4:46:25 PM	Peak Integrated by Software
SSTDICC060	BM049854.D	Pyridine	anahy	4/9/2025 10:33:20 AM	Jagrut	4/9/2025 4:46:27 PM	Peak Integrated by Software
SSTDICC080	BM049855.D	Pyridine	anahy	4/9/2025 10:34:03 AM	Jagrut	4/9/2025 4:46:30 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bm040925	Instrument	BNA_m

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:	bm041025	Instrument	BNA_m

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:	bm041625	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM049944.D	Benzoic acid	Rahul	4/17/2025 10:25:47 AM	Jagrut	4/17/2025 12:27:50 PM	Peak Integrated by Software
PB167509BS	BM049947.D	Benzoic acid	Rahul	4/17/2025 10:25:55 AM	Jagrut	4/17/2025 12:27:57 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040825

Review By	anahy	Review On	4/9/2025 10:38:14 AM		
Supervise By	Jagrut	Supervise On	4/9/2025 4:50:06 PM		
SubDirectory	BM040825	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049847.D	08 Apr 2025 12:55	RC/JU	Ok
2	SSTDICC2.5	BM049848.D	08 Apr 2025 13:35	RC/JU	Ok
3	SSTDICC005	BM049849.D	08 Apr 2025 14:14	RC/JU	Ok,M
4	SSTDICC010	BM049850.D	08 Apr 2025 14:53	RC/JU	Ok,M
5	SSTDICC020	BM049851.D	08 Apr 2025 15:32	RC/JU	Ok
6	SSTDICCC040	BM049852.D	08 Apr 2025 16:12	RC/JU	Ok
7	SSTDICC050	BM049853.D	08 Apr 2025 17:30	RC/JU	Ok
8	SSTDICC060	BM049854.D	08 Apr 2025 19:28	RC/JU	Ok,M
9	SSTDICC080	BM049855.D	08 Apr 2025 20:07	RC/JU	Ok,M
10	SSTDICV040	BM049856.D	08 Apr 2025 20:47	RC/JU	Ok
11	PB167474BL	BM049857.D	08 Apr 2025 21:26	RC/JU	Not Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040925

Review By	anahy	Review On	4/10/2025 10:38:09 AM		
Supervise By	Jagrut	Supervise On	4/10/2025 3:33:56 PM		
SubDirectory	BM040925	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049858.D	09 Apr 2025 08:30	RC/JU	Ok
2	SSTDCCC040	BM049859.D	09 Apr 2025 09:09	RC/JU	Ok
3	PB167521BL	BM049860.D	09 Apr 2025 09:48	RC/JU	Ok
4	PB167521BS	BM049861.D	09 Apr 2025 10:27	RC/JU	Ok
5	PB167521BSD	BM049862.D	09 Apr 2025 11:06	RC/JU	Ok
6	Q1740-01	BM049863.D	09 Apr 2025 11:50	RC/JU	Ok
7	Q1744-01	BM049864.D	09 Apr 2025 12:29	RC/JU	Ok
8	Q1744-01MS	BM049865.D	09 Apr 2025 13:08	RC/JU	Ok
9	Q1744-01MSD	BM049866.D	09 Apr 2025 13:47	RC/JU	Ok
10	Q1742-01	BM049867.D	09 Apr 2025 14:26	RC/JU	Ok,M
11	Q1746-03	BM049868.D	09 Apr 2025 15:05	RC/JU	Ok
12	Q1744-03	BM049869.D	09 Apr 2025 15:45	RC/JU	Ok
13	Q1712-01DL	BM049870.D	09 Apr 2025 16:24	RC/JU	Dilution
14	Q1712-01DL2	BM049871.D	09 Apr 2025 17:03	RC/JU	Ok,M
15	Q1743-01	BM049872.D	09 Apr 2025 17:42	RC/JU	Ok,M
16	Q1745-09	BM049873.D	09 Apr 2025 18:21	RC/JU	Ok,M
17	Q1739-01	BM049874.D	09 Apr 2025 19:01	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041025

Review By	anahy	Review On	4/11/2025 10:19:37 AM		
Supervise By	Jagrut	Supervise On	4/11/2025 10:44:07 AM		
SubDirectory	BM041025	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049875.D	10 Apr 2025 08:53	RC/JU	Ok
2	SSTDCCC040	BM049876.D	10 Apr 2025 09:32	RC/JU	Ok
3	PB167509BL	BM049877.D	10 Apr 2025 10:11	RC/JU	Ok
4	Q1753-01	BM049878.D	10 Apr 2025 10:54	RC/JU	Ok
5	Q1753-05	BM049879.D	10 Apr 2025 11:34	RC/JU	Ok
6	Q1753-05MS	BM049880.D	10 Apr 2025 12:13	RC/JU	Ok,M
7	Q1753-05MSD	BM049881.D	10 Apr 2025 12:52	RC/JU	Ok,M
8	Q1752-05	BM049882.D	10 Apr 2025 13:31	RC/JU	Ok
9	Q1752-07	BM049883.D	10 Apr 2025 14:10	RC/JU	Ok
10	Q1752-01	BM049884.D	10 Apr 2025 14:49	RC/JU	Ok
11	Q1752-03	BM049885.D	10 Apr 2025 15:28	RC/JU	Ok
12	Q1754-03	BM049886.D	10 Apr 2025 16:07	RC/JU	Ok,M
13	Q1739-02	BM049887.D	10 Apr 2025 16:46	RC/JU	Ok,M
14	Q1754-01	BM049888.D	10 Apr 2025 17:25	RC/JU	Ok,M
15	Q1749-01	BM049889.D	10 Apr 2025 18:04	RC/JU	Ok
16	Q1748-05	BM049890.D	10 Apr 2025 18:44	RC/JU	Ok
17	Q1748-01	BM049891.D	10 Apr 2025 19:23	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041625

Review By	Rahul	Review On	4/17/2025 10:26:53 AM				
Supervise By	Jagrut	Supervise On	4/17/2025 12:28:46 PM				
SubDirectory	BM041625	HP Acquire Method	BNA_M		HP Processing Method	bm040825	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12659,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM049943.D	16 Apr 2025 08:49	RC/JU	Ok
2	SSTDCCC040	BM049944.D	16 Apr 2025 09:28	RC/JU	Ok,M
3	PB167561BL	BM049945.D	16 Apr 2025 10:07	RC/JU	Ok
4	PB167561BS	BM049946.D	16 Apr 2025 10:47	RC/JU	Ok,M
5	PB167509BS	BM049947.D	16 Apr 2025 11:26	RC/JU	Ok,M
6	PB167587TB	BM049948.D	16 Apr 2025 12:05	RC/JU	Ok
7	PB167598BL	BM049949.D	16 Apr 2025 12:44	RC/JU	Ok
8	PB167598BS	BM049950.D	16 Apr 2025 13:24	RC/JU	Ok,M
9	Q1791-13	BM049951.D	16 Apr 2025 14:07	RC/JU	ReRun
10	Q1791-14	BM049952.D	16 Apr 2025 14:46	RC/JU	Ok
11	Q1810-02	BM049953.D	16 Apr 2025 15:26	RC/JU	Ok
12	Q1806-01DL	BM049954.D	16 Apr 2025 16:05	RC/JU	Ok,M
13	Q1788-01DL	BM049955.D	16 Apr 2025 16:44	RC/JU	Ok,M
14	Q1808-01MS	BM049956.D	16 Apr 2025 17:24	RC/JU	Ok,M
15	Q1808-01MSD	BM049957.D	16 Apr 2025 18:03	RC/JU	Ok,M
16	Q1808-03	BM049958.D	16 Apr 2025 18:42	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040825

Review By	anahy	Review On	4/9/2025 10:38:14 AM		
Supervise By	Jagrut	Supervise On	4/9/2025 4:50:06 PM		
SubDirectory	BM040825	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049847.D	08 Apr 2025 12:55		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM049848.D	08 Apr 2025 13:35		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM049849.D	08 Apr 2025 14:14	Compound #32,54,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM049850.D	08 Apr 2025 14:53	Compound #32,54 kept on LR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM049851.D	08 Apr 2025 15:32	This calibration is fail for Com#77	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BM049852.D	08 Apr 2025 16:12	This calibration is good for 8270E DOD except Com#77 and good for 625.1 method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BM049853.D	08 Apr 2025 17:30		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BM049854.D	08 Apr 2025 19:28	Compound #69 Removed from 60PPM	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BM049855.D	08 Apr 2025 20:07	Compound #69 Removed from 80PPM	RC/JU	Ok,M
10	SSTDICV040	ICVBM040825	BM049856.D	08 Apr 2025 20:47		RC/JU	Ok
11	PB167474BL	PB167474BL	BM049857.D	08 Apr 2025 21:26	Use for Q1730 only	RC/JU	Not Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM040925

Review By	anahy	Review On	4/10/2025 10:38:09 AM		
Supervise By	Jagrut	Supervise On	4/10/2025 3:33:56 PM		
SubDirectory	BM040925	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049858.D	09 Apr 2025 08:30		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM049859.D	09 Apr 2025 09:09		RC/JU	Ok
3	PB167521BL	PB167521BL	BM049860.D	09 Apr 2025 09:48		RC/JU	Ok
4	PB167521BS	PB167521BS	BM049861.D	09 Apr 2025 10:27		RC/JU	Ok
5	PB167521BSD	PB167521BSD	BM049862.D	09 Apr 2025 11:06		RC/JU	Ok
6	Q1740-01	TP-20	BM049863.D	09 Apr 2025 11:50		RC/JU	Ok
7	Q1744-01	B-158-SB01	BM049864.D	09 Apr 2025 12:29		RC/JU	Ok
8	Q1744-01MS	B-158-SB01MS	BM049865.D	09 Apr 2025 13:08		RC/JU	Ok
9	Q1744-01MSD	B-158-SB01MSD	BM049866.D	09 Apr 2025 13:47		RC/JU	Ok
10	Q1742-01	TR-06-040725	BM049867.D	09 Apr 2025 14:26		RC/JU	Ok,M
11	Q1746-03	B-149-SB02	BM049868.D	09 Apr 2025 15:05		RC/JU	Ok
12	Q1744-03	B-158-SB02	BM049869.D	09 Apr 2025 15:45		RC/JU	Ok
13	Q1712-01DL	Z-05ADL	BM049870.D	09 Apr 2025 16:24	Need 5X further Dilution	RC/JU	Dilution
14	Q1712-01DL2	Z-05ADL2	BM049871.D	09 Apr 2025 17:03		RC/JU	Ok,M
15	Q1743-01	TP-16	BM049872.D	09 Apr 2025 17:42		RC/JU	Ok,M
16	Q1745-09	IB-6.5-WC	BM049873.D	09 Apr 2025 18:21		RC/JU	Ok,M
17	Q1739-01	WC-LIQUID-20250404	BM049874.D	09 Apr 2025 19:01	Surrogate Fail	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041025

Review By	anahy	Review On	4/11/2025 10:19:37 AM		
Supervise By	Jagrut	Supervise On	4/11/2025 10:44:07 AM		
SubDirectory	BM041025	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049875.D	10 Apr 2025 08:53		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM049876.D	10 Apr 2025 09:32		RC/JU	Ok
3	PB167509BL	PB167509BL	BM049877.D	10 Apr 2025 10:11		RC/JU	Ok
4	Q1753-01	WC-1	BM049878.D	10 Apr 2025 10:54		RC/JU	Ok
5	Q1753-05	WC-2	BM049879.D	10 Apr 2025 11:34		RC/JU	Ok
6	Q1753-05MS	WC-2MS	BM049880.D	10 Apr 2025 12:13		RC/JU	Ok,M
7	Q1753-05MSD	WC-2MSD	BM049881.D	10 Apr 2025 12:52		RC/JU	Ok,M
8	Q1752-05	TP-4	BM049882.D	10 Apr 2025 13:31		RC/JU	Ok
9	Q1752-07	TP-3	BM049883.D	10 Apr 2025 14:10		RC/JU	Ok
10	Q1752-01	TP-1	BM049884.D	10 Apr 2025 14:49		RC/JU	Ok
11	Q1752-03	TP-2	BM049885.D	10 Apr 2025 15:28		RC/JU	Ok
12	Q1754-03	TP-1-CONCRETE	BM049886.D	10 Apr 2025 16:07		RC/JU	Ok,M
13	Q1739-02	WC-LIQUID-20250404	BM049887.D	10 Apr 2025 16:46		RC/JU	Ok,M
14	Q1754-01	TP-1	BM049888.D	10 Apr 2025 17:25		RC/JU	Ok,M
15	Q1749-01	TP-14	BM049889.D	10 Apr 2025 18:04		RC/JU	Ok
16	Q1748-05	IB-2A-WC	BM049890.D	10 Apr 2025 18:44		RC/JU	Ok
17	Q1748-01	IB-1.5-WC	BM049891.D	10 Apr 2025 19:23		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM041625

Review By	Rahul	Review On	4/17/2025 10:26:53 AM		
Supervise By	Jagrut	Supervise On	4/17/2025 12:28:46 PM		
SubDirectory	BM041625	HP Acquire Method	BNA_M	HP Processing Method	bm040825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12659,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM049943.D	16 Apr 2025 08:49		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM049944.D	16 Apr 2025 09:28		RC/JU	Ok,M
3	PB167561BL	PB167561BL	BM049945.D	16 Apr 2025 10:07		RC/JU	Ok
4	PB167561BS	PB167561BS	BM049946.D	16 Apr 2025 10:47		RC/JU	Ok,M
5	PB167509BS	PB167509BS	BM049947.D	16 Apr 2025 11:26		RC/JU	Ok,M
6	PB167587TB	PB167587TB	BM049948.D	16 Apr 2025 12:05		RC/JU	Ok
7	PB167598BL	PB167598BL	BM049949.D	16 Apr 2025 12:44		RC/JU	Ok
8	PB167598BS	PB167598BS	BM049950.D	16 Apr 2025 13:24		RC/JU	Ok,M
9	Q1791-13	279312	BM049951.D	16 Apr 2025 14:07	Internal Standards and surrogates Failed	RC/JU	ReRun
10	Q1791-14	VB16164	BM049952.D	16 Apr 2025 14:46		RC/JU	Ok
11	Q1810-02	MOO-25-0118	BM049953.D	16 Apr 2025 15:26		RC/JU	Ok
12	Q1806-01DL	OR-03-041425DL	BM049954.D	16 Apr 2025 16:05		RC/JU	Ok,M
13	Q1788-01DL	WC-1DL	BM049955.D	16 Apr 2025 16:44		RC/JU	Ok,M
14	Q1808-01MS	OILY-SOIL-PILEMS	BM049956.D	16 Apr 2025 17:24		RC/JU	Ok,M
15	Q1808-01MSD	OILY-SOIL-PILEMSD	BM049957.D	16 Apr 2025 18:03		RC/JU	Ok,M
16	Q1808-03	LAW-25-0060	BM049958.D	16 Apr 2025 18:42		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167509

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/08/2025
Matrix :	Solid			**Extraction Start Time :**	08:59
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/08/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
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	EP2591
Baked Na2SO4	N/A	EP2597
Sand	N/A	EP2865
Methylene Chloride	N/A	E3904
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/25	RJ (Ext. Lab)	RC/SVOC
12:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167509

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167509BL	SBLK509	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U3-1
PB167509BS	SLCS509	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
Q1740-01	TP-20	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
Q1742-01	TR-06-040725	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1743-01	TP-16	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		5
Q1744-01	B-158-SB01	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		6
Q1744-01MS	B-158-SB01MS	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U6-1
Q1744-01MSD	B-158-SB01MSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q1744-03	B-158-SB02	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
Q1745-01	IB-6A-WC	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		4
Q1745-09	IB-6.5-WC	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	D		5
Q1746-01	B-149-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		6
Q1746-03	B-149-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	F		U2-1
Q1747-01	ARS20-0008	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		2

* **Extracts relinquished on the same date as received.**

4/8/25

Q1742

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1742 **WorkList ID :** 188790 **Department :** Extraction **Date :** 04-08-2025 08:11:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L21	04/04/2025	8270E
Q1742-01	TR-06-040725	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05		04/04/2025	8270E
Q1743-01	TP-16	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L33	04/07/2025	8270E
Q1744-01	B-158-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/05/2025	8270E
Q1744-03	B-158-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/05/2025	8270E
Q1745-01	IB-6A-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/07/2025	8270E
Q1745-09	IB-6.5-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/07/2025	8270E
Q1746-01	B-149-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/05/2025	8270E
Q1746-03	B-149-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	04/06/2025	8270E
Q1747-01	ARS20-0008	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I41	04/07/2025	8270E

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Date/Time 04/08/25 8:55
Raw Sample Received by: RJ (Sat 2nd)
Raw Sample Relinquished by: CP

Date/Time 04/08/25 9:15
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Sat 2nd)

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LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			SVOC-TCL BNA -20	8270E		04/08/25	04/09/25	
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			SVOC-TCL BNA -20	8270E		04/08/25	04/09/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1744

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:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1744
Lab Sample ID:	PB167517TB	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
BP024262.D	1	04/09/25 13:25	04/11/25 11:45	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	163		15 (10) - 110 (139)	108%	SPK: 150
13127-88-3	Phenol-d6	154		15 (10) - 110 (134)	103%	SPK: 150
4165-60-0	Nitrobenzene-d5	106		30 (49) - 130 (133)	106%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167	*	15 (44) - 110 (137)	112%	SPK: 150
1718-51-0	Terphenyl-d14	111		30 (48) - 130 (125)	111%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	246000	7.758			
1146-65-2	Naphthalene-d8	989000	10.534			
15067-26-2	Acenaphthene-d10	609000	14.387			
1517-22-2	Phenanthrene-d10	1150000	17.192			
1719-03-5	Chrysene-d12	1140000	21.639			
1520-96-3	Perylene-d12	1240000	24.998			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1744
Lab Sample ID:	PB167517TB	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
BP024262.D	1	04/09/25 13:25	04/11/25 11:45	PB167537

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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	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
BP024269.D	1	04/09/25 13:25	04/11/25 17:02	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	134		15 (10) - 110 (139)	89%	SPK: 150
13127-88-3	Phenol-d6	116		15 (10) - 110 (134)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	100		30 (49) - 130 (133)	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.1		30 (52) - 130 (132)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	168	*	15 (44) - 110 (137)	112%	SPK: 150
1718-51-0	Terphenyl-d14	98.6		30 (48) - 130 (125)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	221000	7.74			
1146-65-2	Naphthalene-d8	854000	10.516			
15067-26-2	Acenaphthene-d10	517000	14.375			
1517-22-2	Phenanthrene-d10	1060000	17.175			
1719-03-5	Chrysene-d12	1290000	21.627			
1520-96-3	Perylene-d12	1410000	24.998			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	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
BP024269.D	1	04/09/25 13:25	04/11/25 17:02	PB167537

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	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
BP024270.D	1	04/09/25 13:25	04/11/25 17:42	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		15 (10) - 110 (139)	88%	SPK: 150
13127-88-3	Phenol-d6	113		15 (10) - 110 (134)	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (49) - 130 (133)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.4		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	158		15 (44) - 110 (137)	105%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (48) - 130 (125)	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	242000	7.74			
1146-65-2	Naphthalene-d8	925000	10.516			
15067-26-2	Acenaphthene-d10	525000	14.375			
1517-22-2	Phenanthrene-d10	1030000	17.175			
1719-03-5	Chrysene-d12	1150000	21.61			
1520-96-3	Perylene-d12	1310000	24.974			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	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
BP024270.D	1	04/09/25 13:25	04/11/25 17:42	PB167537

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.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167517TB	PB167517TB	2-Fluorophenol	150	163	108		15 (10)	110 (139)
		Phenol-d6	150	154	103		15 (10)	110 (134)
		Nitrobenzene-d5	100	106	106		30 (49)	130 (133)
		2-Fluorobiphenyl	100	100	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	167	112	*	15 (44)	110 (137)
		Terphenyl-d14	100	111	111		30 (48)	130 (125)
PB167537BL	PB167537BL	2-Fluorophenol	150	154	103		15 (10)	110 (139)
		Phenol-d6	150	142	95		15 (10)	110 (134)
		Nitrobenzene-d5	100	102	102		30 (49)	130 (133)
		2-Fluorobiphenyl	100	100	100		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	163	109		15 (44)	110 (137)
		Terphenyl-d14	100	107	107		30 (48)	130 (125)
PB167537BS	PB167537BS	2-Fluorophenol	150	155	104		15 (10)	110 (139)
		Phenol-d6	150	146	97		15 (10)	110 (134)
		Nitrobenzene-d5	100	102	102		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.7	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	167	111	*	15 (44)	110 (137)
		Terphenyl-d14	100	103	103		30 (48)	130 (125)
Q1744-02	B-158-SB01	2-Fluorophenol	150	134	89		15 (10)	110 (139)
		Phenol-d6	150	116	77		15 (10)	110 (134)
		Nitrobenzene-d5	100	100	100		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.1	93		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	168	112	*	15 (44)	110 (137)
		Terphenyl-d14	100	98.6	99		30 (48)	130 (125)
Q1744-04	B-158-SB02	2-Fluorophenol	150	132	88		15 (10)	110 (139)
		Phenol-d6	150	113	76		15 (10)	110 (134)
		Nitrobenzene-d5	100	101	101		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.4	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	158	105		15 (44)	110 (137)
		Terphenyl-d14	100	101	101		30 (48)	130 (125)
Q1748-04MS	IB-1.5-WCMS	2-Fluorophenol	150	160	106		15 (10)	110 (139)
		Phenol-d6	150	150	100		15 (10)	110 (134)
		Nitrobenzene-d5	100	108	108		30 (49)	130 (133)
		2-Fluorobiphenyl	100	95.4	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	199	133	*	15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
Q1748-04MSD	IB-1.5-WCMSD	2-Fluorophenol	150	144	96		15 (10)	110 (139)
		Phenol-d6	150	130	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	103	103		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.9	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	179	119	*	15 (44)	110 (137)
		Terphenyl-d14	100	107	107		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

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: Q1748-04MS		**Client Sample ID: IB-1.5-WCMS**						**DataFile:**	**BP024265.D**		
Pyridine	500	0	540	ug/L	108				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	430	ug/L	86				70 (55)	130 (125)	
2-Methylphenol	500	0	550	ug/L	110				70 (60)	130 (131)	
3+4-Methylphenols	500	0	560	ug/L	112				20 (54)	160 (136)	
Hexachloroethane	500	0	420	ug/L	84				20 (19)	160 (146)	
Nitrobenzene	500	0	490	ug/L	98				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	430	ug/L	86				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	530	ug/L	106				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	570	ug/L	114				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	660	ug/L	132	*			70 (74)	130 (137)	
Hexachlorobenzene	500	0	490	ug/L	98				70 (72)	130 (115)	
Pentachlorophenol	1000	0	1100	ug/L	110				20 (52)	160 (162)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

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: Q1748-04MSD		**Client Sample ID:** IB-1.5-WCMSD						**DataFile:**	BP024266.D		
Pyridine	500	0	430	ug/L	86		23	*	20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	400	ug/L	80		7		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	490	ug/L	98		12		70 (60)	130 (131)	20 (20)
3+4-Methylphenols	500	0	480	ug/L	96		15		20 (54)	160 (136)	20 (20)
Hexachloroethane	500	0	410	ug/L	82		2		20 (19)	160 (146)	20 (20)
Nitrobenzene	500	0	460	ug/L	92		6		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	430	ug/L	86		0		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	510	ug/L	102		4		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	530	ug/L	106		7		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	590	ug/L	118		11		70 (74)	130 (137)	20 (20)
Hexachlorobenzene	500	0	480	ug/L	96		2		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	1100	ug/L	110		0		20 (52)	160 (162)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BP024261.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167537BS	Pyridine	50	42.6	ug/L	85				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	49.4	ug/L	99				70 (76)	130 (103)	
	2-Methylphenol	50	54.4	ug/L	109				70 (69)	130 (109)	
	3+4-Methylphenols	50	53.8	ug/L	108				20 (67)	160 (106)	
	Hexachloroethane	50	50.3	ug/L	101				20 (76)	160 (118)	
	Nitrobenzene	50	51.1	ug/L	102				70 (58)	130 (106)	
	Hexachlorobutadiene	50	50.0	ug/L	100				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	53.7	ug/L	107				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	53.9	ug/L	108				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	59.4	ug/L	119				70 (60)	130 (115)	
	Hexachlorobenzene	50	50.4	ug/L	101				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.

PB167537BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BP024260.D Lab Sample ID: PB167537BL

Instrument ID: BNA_P Date Extracted: 04/09/2025

Matrix: (soil/water) water Date Analyzed: 04/11/2025

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167537BS	PB167537BS	BP024261.D	04/11/2025
IB-1.5-WCMS	Q1748-04MS	BP024265.D	04/11/2025
B-158-SB01	Q1744-02	BP024269.D	04/11/2025
B-158-SB02	Q1744-04	BP024270.D	04/11/2025
IB-1.5-WCMSD	Q1748-04MSD	BP024266.D	04/11/2025
PB167517TB	PB167517TB	BP024262.D	04/11/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BP024159.D DFTPP Injection Date: 03/12/2025

Instrument ID: BNA_P DFTPP Injection Time: 15:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.5
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	33.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.1
197	Less than 2.0% of mass 198	0.4
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	27.5
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	14.7
442	Greater than 50% of mass 198	94.8
443	15.0 - 24.0% of mass 442	18.4 (19.5) 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
SSTDICC2.5	SSTDICC2.5	BP024160.D	03/12/2025	16:17
SSTDICC005	SSTDICC005	BP024161.D	03/12/2025	16:57
SSTDICC010	SSTDICC010	BP024162.D	03/12/2025	17:38
SSTDICC020	SSTDICC020	BP024163.D	03/12/2025	18:19
SSTDICCC040	SSTDICCC040	BP024164.D	03/12/2025	19:00
SSTDICC050	SSTDICC050	BP024165.D	03/12/2025	19:41
SSTDICC060	SSTDICC060	BP024166.D	03/12/2025	20:21
SSTDICC080	SSTDICC080	BP024167.D	03/12/2025	21:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: BP024258.D DFTPP Injection Date: 04/11/2025

Instrument ID: BNA_P DFTPP Injection Time: 09:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.1
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	32.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.4
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	6.5
275	10.0 - 60.0% of mass 198	29.1
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024259.D	04/11/2025	09:43
PB167537BL	PB167537BL	BP024260.D	04/11/2025	10:23
PB167537BS	PB167537BS	BP024261.D	04/11/2025	11:04
PB167517TB	PB167517TB	BP024262.D	04/11/2025	11:45
IB-1.5-WCMS	Q1748-04MS	BP024265.D	04/11/2025	14:19
IB-1.5-WCMSD	Q1748-04MSD	BP024266.D	04/11/2025	15:00
B-158-SB01	Q1744-02	BP024269.D	04/11/2025	17:02
B-158-SB02	Q1744-04	BP024270.D	04/11/2025	17:42

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/11/2025

Lab File ID: BP024259.D Time Analyzed: 09:43

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	312531	7.757	1264670	10.53	754959	14.39
	UPPER LIMIT	625062	8.257	2529340	11.034	1509920	14.892
	LOWER LIMIT	156266	7.257	632335	10.034	377480	13.892
	EPA SAMPLE NO.						
01	PB167517TB	245941	7.76	988900	10.53	609073	14.39
02	PB167537BL	279458	7.76	1100930	10.54	638188	14.39
03	PB167537BS	252310	7.76	1001040	10.53	619477	14.39
04	B-158-SB01	220580	7.74	853855	10.52	516666	14.38
05	B-158-SB02	241596	7.74	924650	10.52	524708	14.38
06	IB-1.5-WCMS	198893	7.74	835760	10.51	566625	14.39
07	IB-1.5-WCMSD	263233	7.74	1024670	10.52	625891	14.38

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.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/11/2025

Lab File ID: BP024259.D Time Analyzed: 09:43

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1422440	17.204	1476880	21.639	1685520	25.009
	UPPER LIMIT	2844880	17.704	2953760	22.139	3371040	25.509
	LOWER LIMIT	711220	16.704	738440	21.139	842760	24.509
	EPA SAMPLE NO.						
01	PB167517TB	1154900	17.19	1137900	21.64	1235220	25.00
02	PB167537BL	1225650	17.19	1255530	21.64	1409210	25.00
03	PB167537BS	1216310	17.19	1332930	21.64	1494830	25.02
04	B-158-SB01	1056170	17.18	1289350	21.63	1408890	25.00
05	B-158-SB02	1030670	17.18	1146420	21.61	1313030	24.97
06	IB-1.5-WCMS	1260550	17.19	1426670	21.65	871094	25.00
07	IB-1.5-WCMSD	1269590	17.18	1347510	21.62	604991 *	24.98

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167537BL	SDG No.:	Q1744
Lab Sample ID:	PB167537BL	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
BP024260.D	1	04/09/25 13:25	04/11/25 10:23	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.53	U	0.53	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	103%	SPK: 150
13127-88-3	Phenol-d6	142		15 (10) - 110 (134)	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	102		30 (49) - 130 (133)	102%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		30 (52) - 130 (132)	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	163		15 (44) - 110 (137)	109%	SPK: 150
1718-51-0	Terphenyl-d14	107		30 (48) - 130 (125)	107%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	279000	7.757			
1146-65-2	Naphthalene-d8	1100000	10.54			
15067-26-2	Acenaphthene-d10	638000	14.386			
1517-22-2	Phenanthrene-d10	1230000	17.192			
1719-03-5	Chrysene-d12	1260000	21.639			
1520-96-3	Perylene-d12	1410000	25.003			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167537BL			SDG No.:	Q1744
Lab Sample ID:	PB167537BL			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
BP024260.D	1	04/09/25 13:25	04/11/25 10:23	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167537BS	SDG No.:	Q1744
Lab Sample ID:	PB167537BS	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
BP024261.D	1	04/09/25 13:25	04/11/25 11:04	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	42.6		1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	49.4		0.53	5.00	ug/L
95-48-7	2-Methylphenol	54.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	53.8		1.10	10.0	ug/L
67-72-1	Hexachloroethane	50.3		0.65	5.00	ug/L
98-95-3	Nitrobenzene	51.1		0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	50.0		0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	53.7		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	53.9		0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	59.4		1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	50.4		0.52	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	155		15 (10) - 110 (139)	104%	SPK: 150
13127-88-3	Phenol-d6	146		15 (10) - 110 (134)	97%	SPK: 150
4165-60-0	Nitrobenzene-d5	102		30 (49) - 130 (133)	102%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167	*	15 (44) - 110 (137)	111%	SPK: 150
1718-51-0	Terphenyl-d14	103		30 (48) - 130 (125)	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	252000	7.757			
1146-65-2	Naphthalene-d8	1000000	10.534			
15067-26-2	Acenaphthene-d10	619000	14.387			
1517-22-2	Phenanthrene-d10	1220000	17.192			
1719-03-5	Chrysene-d12	1330000	21.639			
1520-96-3	Perylene-d12	1490000	25.015			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167537BS			SDG No.:	Q1744
Lab Sample ID:	PB167537BS			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
BP024261.D	1	04/09/25 13:25	04/11/25 11:04	PB167537

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:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMS	SDG No.:	Q1744
Lab Sample ID:	Q1748-04MS	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
BP024265.D	1	04/09/25 13:25	04/11/25 14:19	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	540		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	430		5.30	50.0	ug/L
95-48-7	2-Methylphenol	550		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	560		11.0	100	ug/L
67-72-1	Hexachloroethane	420		6.50	50.0	ug/L
98-95-3	Nitrobenzene	490		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	430		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	530		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	570		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	660		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	490		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	160		15 (10) - 110 (139)	106%	SPK: 150
13127-88-3	Phenol-d6	150		15 (10) - 110 (134)	100%	SPK: 150
4165-60-0	Nitrobenzene-d5	108		30 (49) - 130 (133)	108%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.4		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	199	*	15 (44) - 110 (137)	133%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199000	7.74			
1146-65-2	Naphthalene-d8	836000	10.51			
15067-26-2	Acenaphthene-d10	567000	14.386			
1517-22-2	Phenanthrene-d10	1260000	17.186			
1719-03-5	Chrysene-d12	1430000	21.645			
1520-96-3	Perylene-d12	871000	25.004			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMS	SDG No.:	Q1744
Lab Sample ID:	Q1748-04MS	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
BP024265.D	1	04/09/25 13:25	04/11/25 14:19	PB167537

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
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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
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMSD	SDG No.:	Q1744
Lab Sample ID:	Q1748-04MSD	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
BP024266.D	1	04/09/25 13:25	04/11/25 15:00	PB167537

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	430		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	400		5.30	50.0	ug/L
95-48-7	2-Methylphenol	490		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	480		11.0	100	ug/L
67-72-1	Hexachloroethane	410		6.50	50.0	ug/L
98-95-3	Nitrobenzene	460		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	430		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	510		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	530		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	590		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	480		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	1100	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	144		15 (10) - 110 (139)	96%	SPK: 150
13127-88-3	Phenol-d6	130		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		30 (49) - 130 (133)	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	179	*	15 (44) - 110 (137)	119%	SPK: 150
1718-51-0	Terphenyl-d14	107		30 (48) - 130 (125)	107%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	263000	7.74			
1146-65-2	Naphthalene-d8	1020000	10.516			
15067-26-2	Acenaphthene-d10	626000	14.375			
1517-22-2	Phenanthrene-d10	1270000	17.175			
1719-03-5	Chrysene-d12	1350000	21.622			
1520-96-3	Perylene-d12	605000	24.98			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WCMSD	SDG No.:	Q1744
Lab Sample ID:	Q1748-04MSD	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
BP024266.D	1	04/09/25 13:25	04/11/25 15:00	PB167537

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

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Mar 13 05:55:58 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024160.D 5 =BP024161.D 10 =BP024162.D 20 =BP024163.D 40 =BP024164.D 50 =BP024165.D 60 =BP024166.D 80 =BP0241
67.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.503	0.499	0.518	0.469	0.496	0.498	0.493	0.497	2.93
3)		Pyridine		1.296	1.269	1.406	1.311	1.396	1.398	1.429	1.358	4.69
4)		n-Nitrosodimet...		0.444	0.436	0.476	0.431	0.461	0.466	0.461	0.454	3.66
5)	S	2-Fluorophenol		1.158	1.194	1.307	1.211	1.291	1.307	1.303	1.253	5.06
6)		Aniline		1.508	1.531	1.656	1.484	1.548	1.512	1.447	1.527	4.31
7)	S	Phenol-d6		1.518	1.581	1.747	1.631	1.749	1.754	1.748	1.675	5.86
8)		2-Chlorophenol		1.257	1.310	1.413	1.306	1.391	1.400	1.397	1.353	4.52
9)		Benzaldehyde		0.971	0.949	0.930	0.780	0.751	0.702	0.577	0.809	18.20
10)	C	Phenol		1.579	1.632	1.754	1.628	1.744	1.752	1.751	1.691	4.46
11)		bis(2-Chloroet...		1.286	1.317	1.407	1.273	1.341	1.358	1.356	1.334	3.45
12)		1,3-Dichlorobe...		1.466	1.448	1.522	1.387	1.477	1.471	1.445	1.459	2.79
13)	C	1,4-Dichlorobe...		1.507	1.474	1.562	1.413	1.493	1.503	1.479	1.490	3.01
14)		1,2-Dichlorobe...		1.446	1.426	1.494	1.358	1.435	1.440	1.411	1.430	2.85
15)		Benzyl Alcohol		0.934	0.966	1.096	1.042	1.122	1.126	1.139	1.061	7.77
16)		2,2'-oxybis(1-...		1.374	1.367	1.434	1.293	1.365	1.362	1.336	1.361	3.11
17)		2-Methylphenol		0.932	0.997	1.120	1.038	1.116	1.113	1.109	1.061	6.96
18)		Hexachloroethane		0.533	0.512	0.547	0.508	0.533	0.538	0.529	0.529	2.67
19)	P	n-Nitroso-di-n...	0.869	0.910	0.956	1.048	0.962	1.026	1.007	0.997	0.972	6.18
20)		3+4-Methylphenols		1.265	1.360	1.530	1.433	1.547	1.530	1.534	1.457	7.50
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.483	0.490	0.531	0.496	0.508	0.519	0.512	0.506	3.37
23)	S	Nitrobenzene-d5		0.330	0.338	0.366	0.351	0.362	0.368	0.367	0.354	4.34
24)		Nitrobenzene		0.330	0.336	0.362	0.341	0.355	0.363	0.361	0.350	3.88
25)		Isophorone		0.532	0.562	0.631	0.602	0.635	0.642	0.649	0.608	7.33
26)	C	2-Nitrophenol		0.126	0.141	0.167	0.171	0.182	0.189	0.192	0.167	14.92
27)		2,4-Dimethylph...		0.186	0.198	0.220	0.215	0.223	0.229	0.232	0.215	7.94
28)		bis(2-Chloroet...		0.414	0.418	0.438	0.418	0.429	0.437	0.439	0.427	2.55
29)	C	2,4-Dichloroph...		0.237	0.263	0.298	0.296	0.306	0.314	0.319	0.291	10.21
30)		1,2,4-Trichlor...		0.310	0.312	0.329	0.312	0.322	0.331	0.331	0.321	2.94
31)		Naphthalene		1.041	1.037	1.099	1.029	1.069	1.078	1.069	1.060	2.38
32)		Benzoic acid			0.148	0.190	0.218	0.239	0.252		0.209	19.82
33)		4-Chloroaniline		0.344	0.356	0.397	0.377	0.394	0.389	0.398	0.379	5.63
34)	C	Hexachlorobuta...		0.177	0.178	0.187	0.180	0.187	0.192	0.191	0.185	3.36
35)		Caprolactam		0.072	0.079	0.097	0.097	0.107	0.104	0.111	0.095	15.56
36)	C	4-Chloro-3-met...		0.261	0.283	0.324	0.314	0.333	0.332	0.348	0.313	9.83
37)		2-Methylnaphth...		0.689	0.684	0.737	0.704	0.731	0.734	0.735	0.716	3.27
38)		1-Methylnaphth...		0.674	0.673	0.728	0.673	0.704	0.705	0.720	0.697	3.32

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.548	0.560	0.596	0.558	0.580	0.608	0.596	0.578	3.98
41)	P	Hexachlorocycl...	0.169	0.189	0.214	0.212	0.220	0.234	0.222	0.208	10.65
42)	S	2,4,6-Tribromo...	0.203	0.222	0.256	0.252	0.270	0.275	0.285	0.252	11.69
43)	C	2,4,6-Trichlor...	0.291	0.324	0.379	0.372	0.391	0.409	0.406	0.367	11.98
44)		2,4,5-Trichlor...	0.331	0.362	0.414	0.409	0.422	0.439	0.443	0.403	10.23
45)	S	2-Fluorobiphenyl	1.364	1.358	1.420	1.319	1.335	1.367	1.332	1.356	2.44
46)		1,1'-Biphenyl	1.467	1.475	1.566	1.462	1.493	1.536	1.521	1.503	2.60
47)		2-Chloronaphth...	1.108	1.100	1.180	1.095	1.115	1.164	1.152	1.130	3.01
48)		2-Nitroaniline	0.228	0.252	0.300	0.292	0.311	0.317	0.324	0.289	12.34
49)		Acenaphthylene	1.586	1.628	1.776	1.661	1.749	1.789	1.784	1.710	4.91
50)		Dimethylphthalate	1.351	1.349	1.459	1.358	1.417	1.424	1.439	1.399	3.27
51)		2,6-Dinitrotol...	0.248	0.266	0.303	0.294	0.312	0.316	0.322	0.294	9.40
52)	C	Acenaphthene	1.057	1.056	1.136	1.061	1.096	1.123	1.121	1.093	3.18
53)		3-Nitroaniline	0.253	0.276	0.328	0.322	0.344	0.343	0.359	0.318	12.24
54)	P	2,4-Dinitrophenol		0.108	0.146	0.160	0.179	0.186		0.156	19.97
55)		Dibenzofuran	1.759	1.751	1.835	1.711	1.768	1.799	1.769	1.770	2.18
56)	P	4-Nitrophenol	0.187	0.218	0.271	0.277	0.299	0.296	0.312	0.266	17.41
57)		2,4-Dinitrotol...	0.295	0.334	0.400	0.394	0.423	0.431	0.446	0.389	14.19
58)		Fluorene	1.309	1.343	1.442	1.345	1.407	1.407	1.402	1.379	3.43
59)		2,3,4,6-Tetrac...	0.316	0.323	0.365	0.356	0.371	0.376	0.386	0.356	7.54
60)		Diethylphthalate	1.297	1.336	1.437	1.358	1.422	1.435	1.469	1.394	4.53
61)		4-Chlorophenyl...	0.658	0.660	0.696	0.658	0.685	0.689	0.690	0.676	2.53
62)		4-Nitroaniline	0.246	0.292	0.348	0.343	0.362	0.365	0.379	0.334	14.22
63)		Azobenzene	1.215	1.251	1.369	1.291	1.341	1.363	1.365	1.314	4.73
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.085	0.111	0.120	0.127	0.132	0.137	0.119	15.85
66)	c	n-Nitrosodiphe...	0.564	0.583	0.629	0.600	0.617	0.632	0.626	0.607	4.27
67)		4-Bromophenyl-...	0.206	0.207	0.222	0.217	0.224	0.229	0.231	0.220	4.60
68)		Hexachlorobenzene	0.248	0.249	0.263	0.254	0.263	0.270	0.272	0.260	3.76
69)		Atrazine	0.165	0.171	0.157	0.135	0.105			0.147	18.49
70)	C	Pentachlorophenol	0.121	0.140	0.166	0.177	0.184	0.190	0.197	0.168	16.61
71)		Phenanthrene	1.068	1.059	1.126	1.083	1.100	1.111	1.102	1.093	2.19
72)		Anthracene	0.993	1.012	1.101	1.063	1.092	1.090	1.098	1.064	4.16
73)		Carbazole	0.920	0.975	1.060	1.041	1.060	1.061	1.066	1.026	5.50
74)		Di-n-butylphth...	1.026	1.121	1.247	1.260	1.272	1.297	1.304	1.218	8.57
75)	C	Fluoranthene	1.173	1.220	1.287	1.264	1.305	1.298	1.312	1.265	4.07
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.222	0.199	0.178	0.258	0.173	0.278	0.222	0.219	17.88
78)		Pyrene	1.177	1.190	1.299	1.204	1.266	1.293	1.274	1.243	4.12
79)	S	Terphenyl-d14	0.967	0.973	1.033	0.948	0.966	0.971	0.924	0.969	3.45
80)		Butylbenzylpht...	0.399	0.441	0.513	0.524	0.554	0.581	0.576	0.513	13.49
81)		Benzo(a)anthra...	1.194	1.194	1.291	1.208	1.261	1.285	1.271	1.243	3.47
82)		3,3'-Dichlorob...	0.340	0.369	0.429	0.428	0.434	0.467	0.450	0.417	10.94
83)		Chrysene	1.185	1.159	1.224	1.158	1.212	1.220	1.209	1.195	2.36
84)		Bis(2-ethylhex...	0.613	0.678	0.784	0.792	0.819	0.878	0.851	0.774	12.30
85)	c	Di-n-octyl pht...	0.922	1.033	1.224	1.272	1.357	1.435	1.433	1.240	15.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP031225.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.274	1.289	1.421	1.366	1.442	1.479	1.499	1.396	6.38
88)		Benzo(b)fluora...	1.103	1.116	1.258	1.190	1.244	1.266	1.264	1.206	5.85
89)		Benzo(k)fluora...	1.092	1.136	1.213	1.130	1.203	1.251	1.232	1.180	5.07
90)	C	Benzo(a)pyrene	0.953	0.959	1.065	1.029	1.094	1.119	1.122	1.049	6.77
91)		Dibenzo(a,h)an...	1.063	1.083	1.184	1.137	1.191	1.226	1.244	1.161	5.97
92)		Benzo(g,h,i)pe...	1.097	1.107	1.199	1.154	1.202	1.246	1.259	1.180	5.39

(#) = 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.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Instrument ID: BNA_P Calibration Date/Time: 04/11/2025 09:43

Lab File ID: BP024259.D Init. Calib. Date(s): 03/12/2025 03/12/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:17 21:02

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.358	1.377		1.4	
2-Fluorophenol	1.253	1.286		2.6	
Phenol-d6	1.675	1.720		2.7	
1,4-Dichlorobenzene	1.490	1.489		-0.1	20.0
2-Methylphenol	1.061	1.100		3.7	
3+4-Methylphenols	1.457	1.511		3.7	
Nitrobenzene-d5	0.354	0.371		4.8	
Hexachloroethane	0.529	0.543		2.6	
Nitrobenzene	0.350	0.364		4.0	
Hexachlorobutadiene	0.185	0.187		1.1	20.0
2,4,6-Trichlorophenol	0.367	0.397		8.2	20.0
2-Fluorobiphenyl	1.356	1.348		-0.6	
2,4,5-Trichlorophenol	0.403	0.436		8.2	
2,4-Dinitrotoluene	0.389	0.431		10.8	
2,4,6-Tribromophenol	0.252	0.279		10.7	
Hexachlorobenzene	0.260	0.268		3.1	
Pentachlorophenol	0.168	0.192		14.3	20.0
Terphenyl-d14	0.969	1.021		5.4	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024262.D
Acq On : 11 Apr 2025 11:45
Operator : RC/JU
Sample : PB167517TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Quant Time: Apr 11 12:15:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

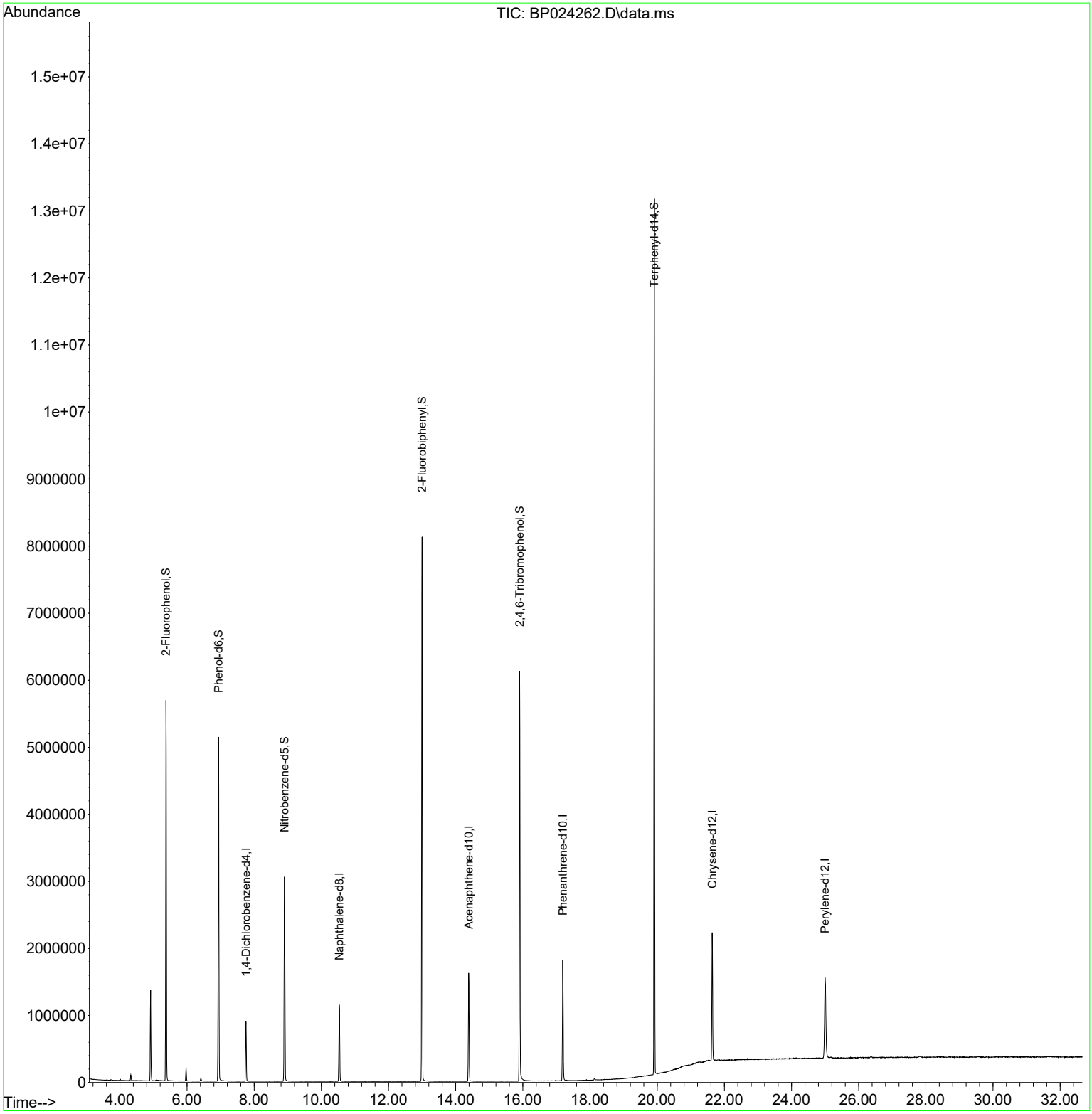
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.758	152	245941	20.000	ng	0.01
21) Naphthalene-d8	10.534	136	988900	20.000	ng	0.00
39) Acenaphthene-d10	14.387	164	609073	20.000	ng	0.00
64) Phenanthrene-d10	17.192	188	1154897	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1137897	20.000	ng	0.00
86) Perylene-d12	24.998	264	1235221	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2505867	162.644	ng	0.02
7) Phenol-d6	6.940	99	3176704	154.184	ng	0.01
23) Nitrobenzene-d5	8.905	82	1859413	106.088	ng	0.01
42) 2,4,6-Tribromophenol	15.904	330	1284993	167.490	ng	0.00
45) 2-Fluorobiphenyl	12.998	172	4144556	100.337	ng	0.00
79) Terphenyl-d14	19.916	244	6111210	110.862	ng	0.00
Target Compounds						Qvalue

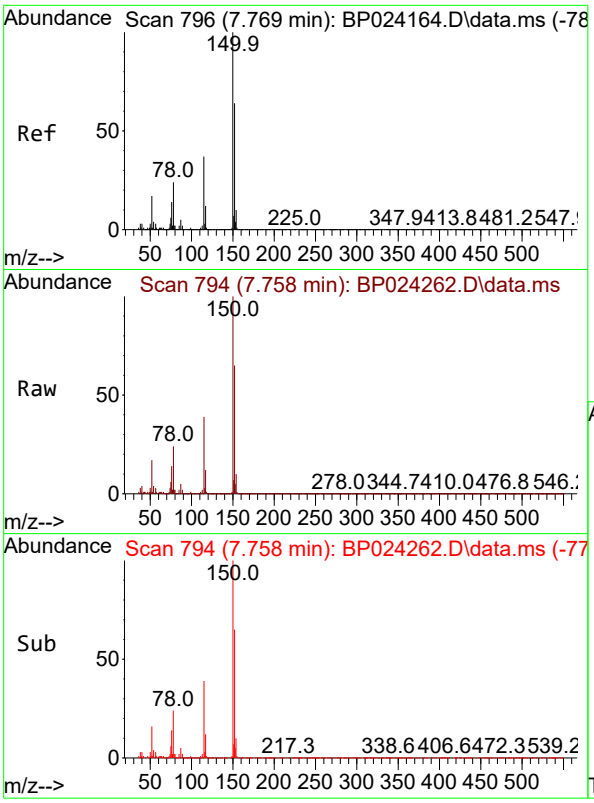
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024262.D
Acq On : 11 Apr 2025 11:45
Operator : RC/JU
Sample : PB167517TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Quant Time: Apr 11 12:15:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



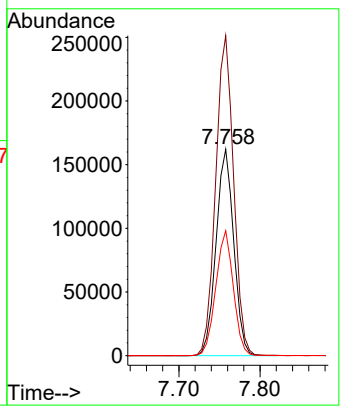


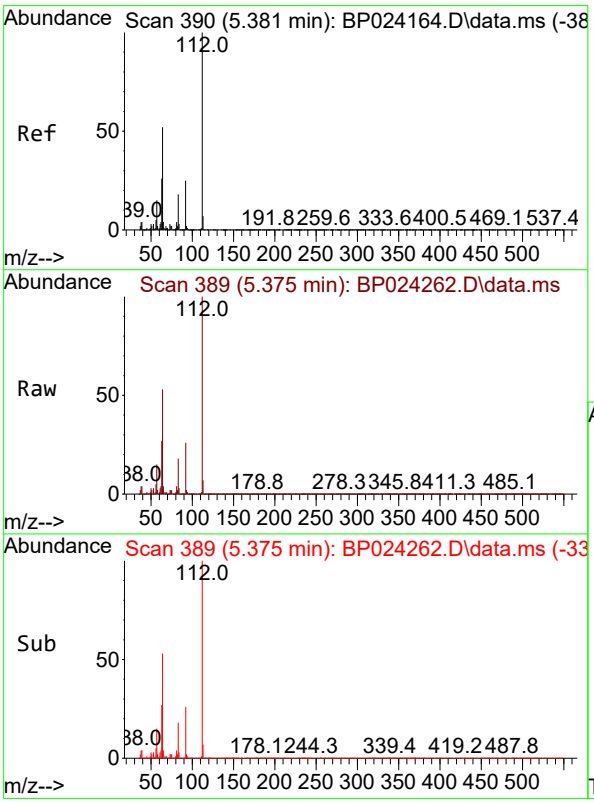
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 7
Delta R.T. 0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:152 Resp: 245941

Ion	Ratio	Lower	Upper
152	100		
150	155.0	125.5	188.3
115	60.5	46.3	69.5

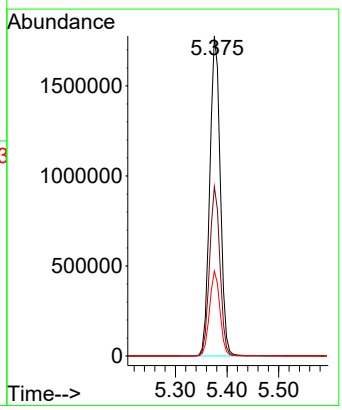


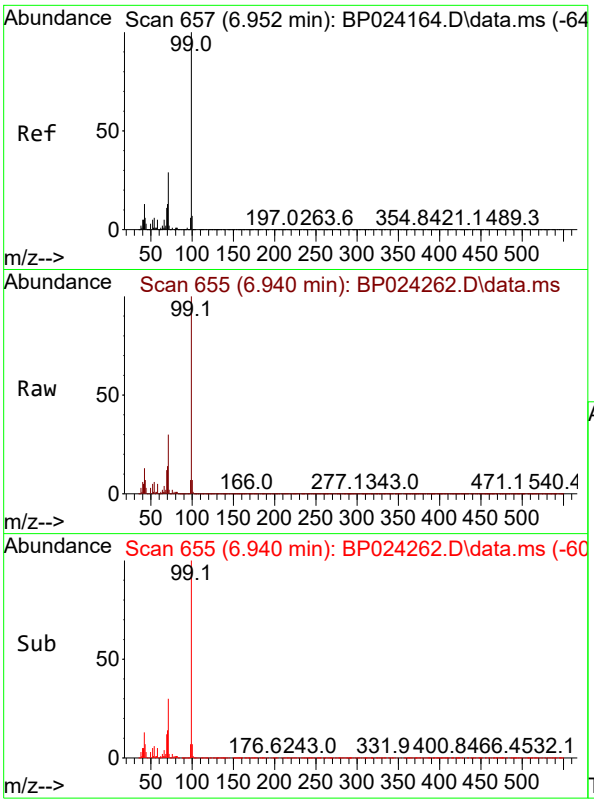


#5
2-Fluorophenol
Concen: 162.644 ng
RT: 5.375 min Scan# 389
Delta R.T. 0.018 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:112 Resp: 2505867

Ion	Ratio	Lower	Upper
112	100		
64	52.9	41.3	61.9
63	26.6	20.6	31.0



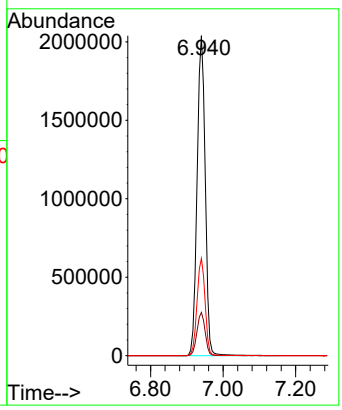


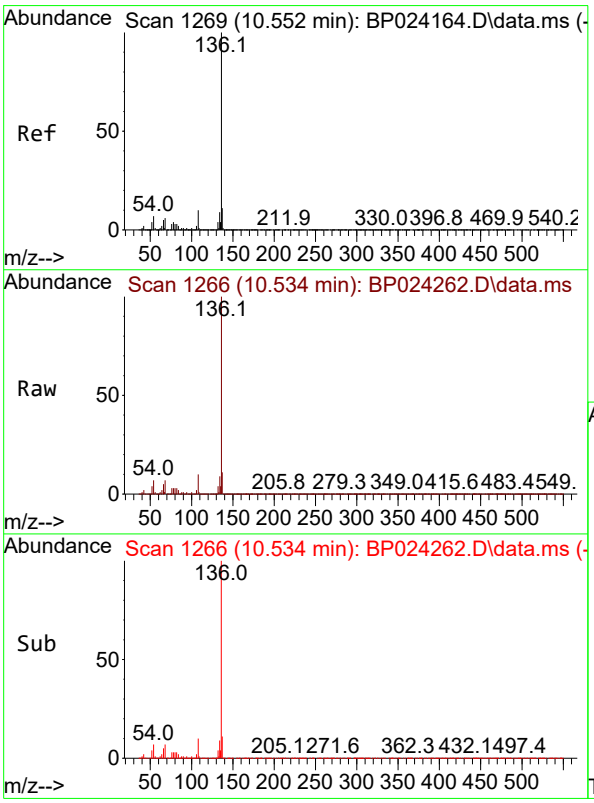
#7
Phenol-d6
Concen: 154.184 ng
RT: 6.940 min Scan# 6
Delta R.T. 0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion: 99 Resp: 3176704

Ion	Ratio	Lower	Upper
99	100		
42	13.5	10.6	16.0
71	30.4	23.3	34.9

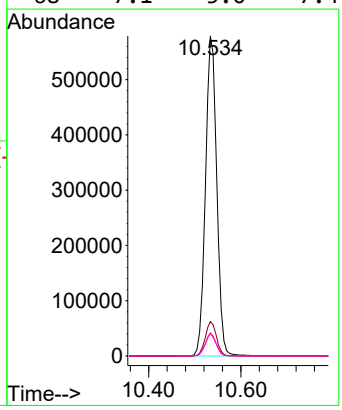


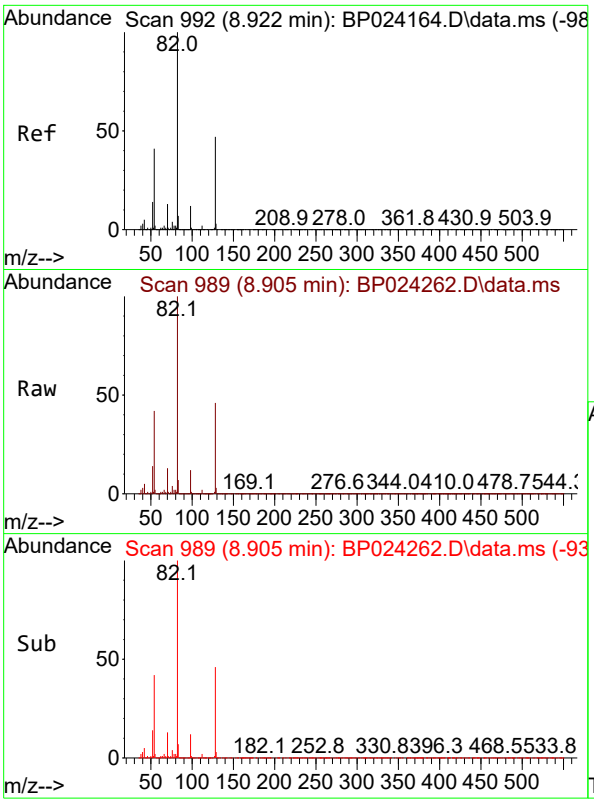


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:136 Resp: 988900

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	7.2	5.3	7.9
68	7.1	5.0	7.4



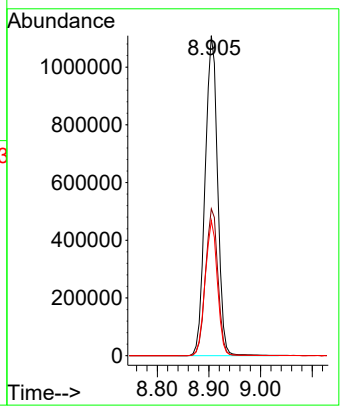


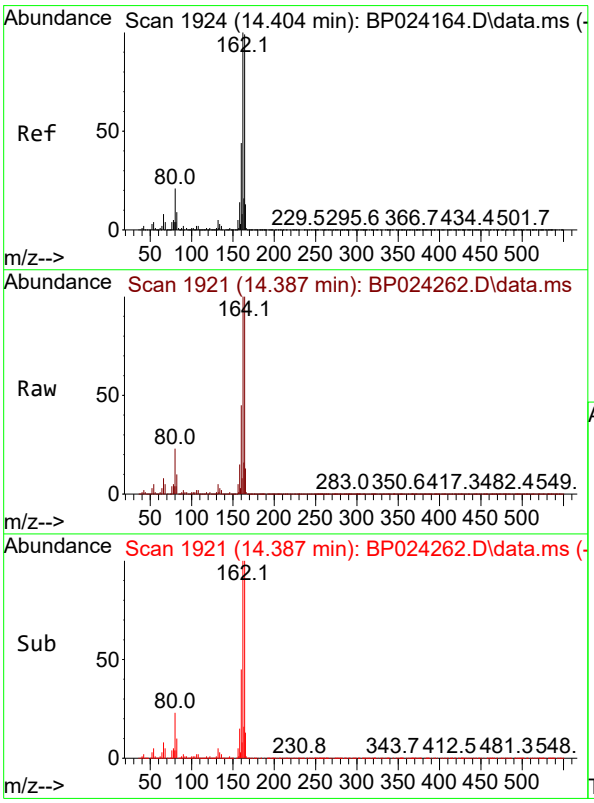
#23
Nitrobenzene-d5
Concen: 106.088 ng
RT: 8.905 min Scan# 9
Delta R.T. 0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion: 82 Resp: 1859413

Ion	Ratio	Lower	Upper
82	100		
128	45.9	37.4	56.0
54	42.2	32.5	48.7

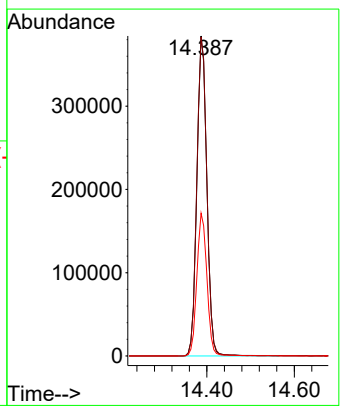


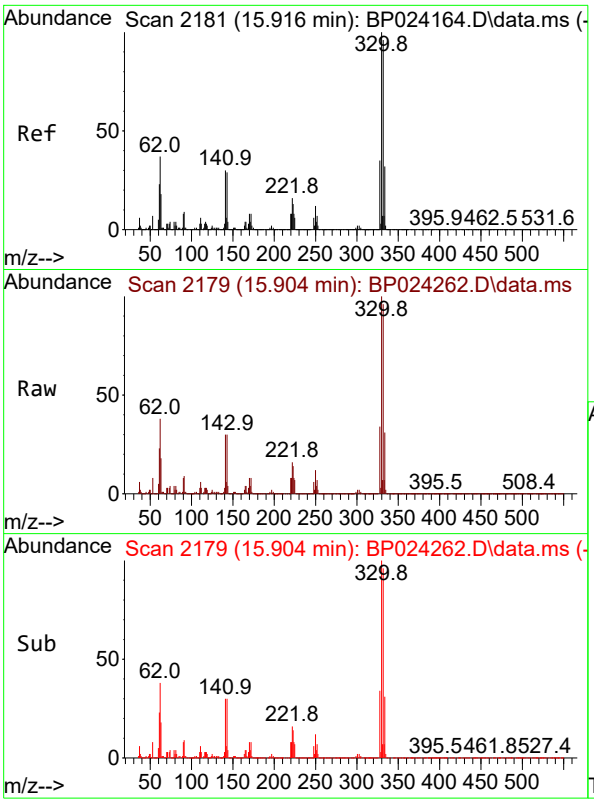


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.387 min Scan# 1921
Delta R.T. -0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:164 Resp: 609073

Ion	Ratio	Lower	Upper
164	100		
162	99.7	80.6	121.0
160	44.6	35.4	53.2



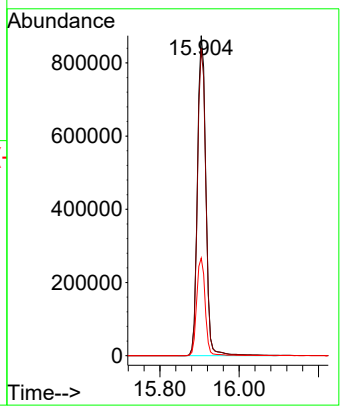


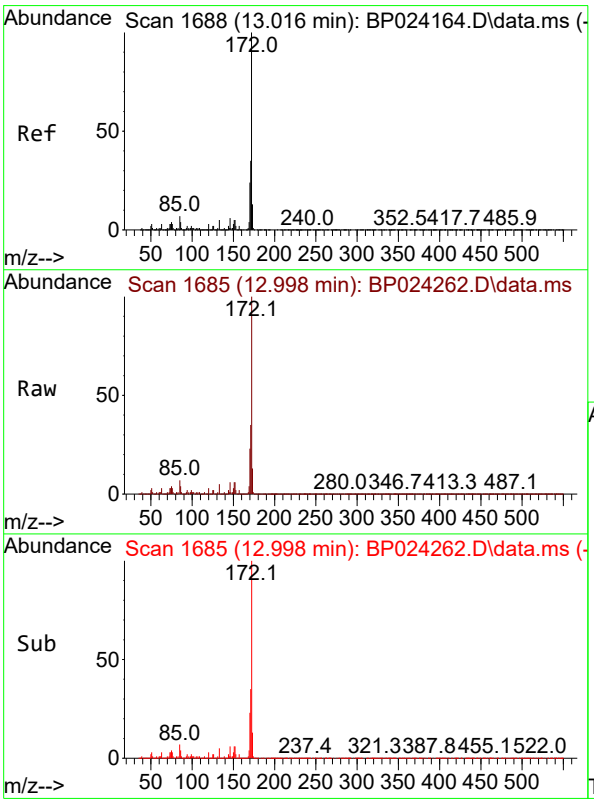
#42
2,4,6-Tribromophenol
Concen: 167.490 ng
RT: 15.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:330 Resp: 1284993

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	30.8	25.0	37.6

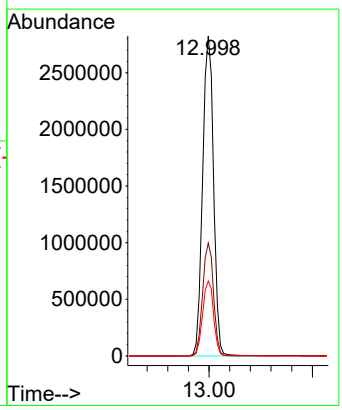


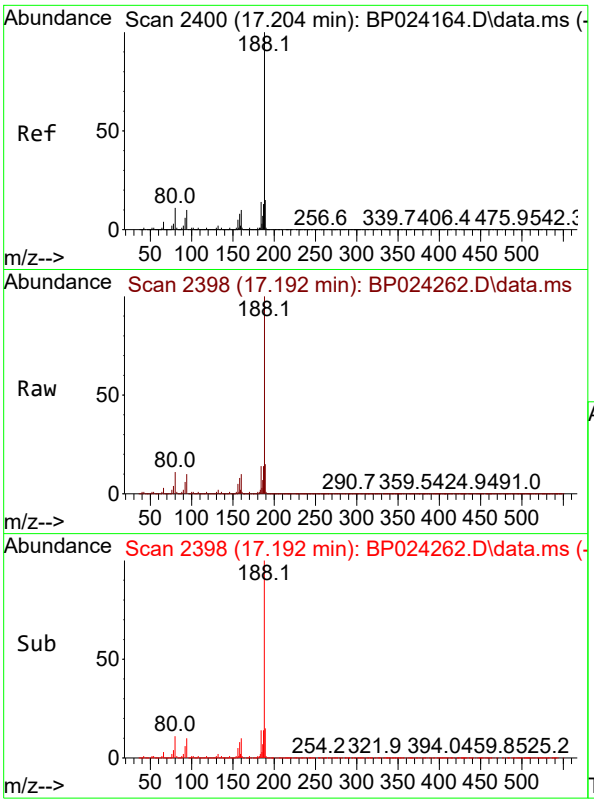


#45
2-Fluorobiphenyl
Concen: 100.337 ng
RT: 12.998 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:172 Resp: 4144556

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.5	19.0	28.4



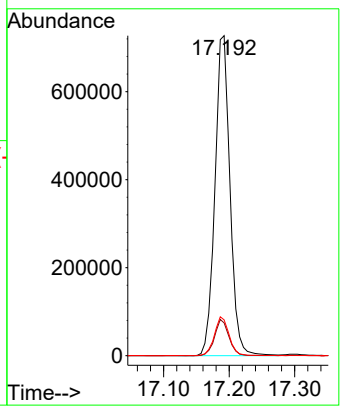


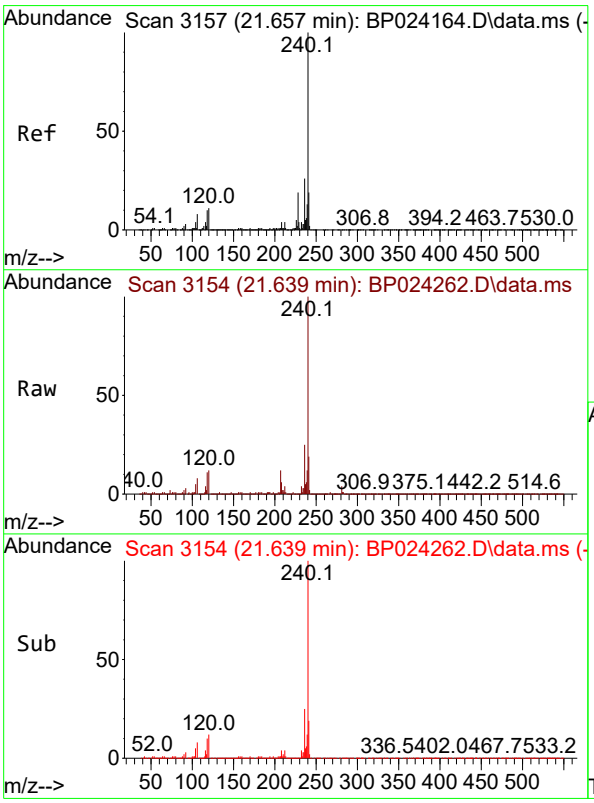
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:188 Resp: 1154897

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.1	12.1
80	11.2	8.9	13.3

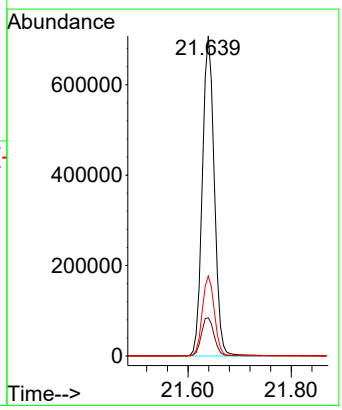


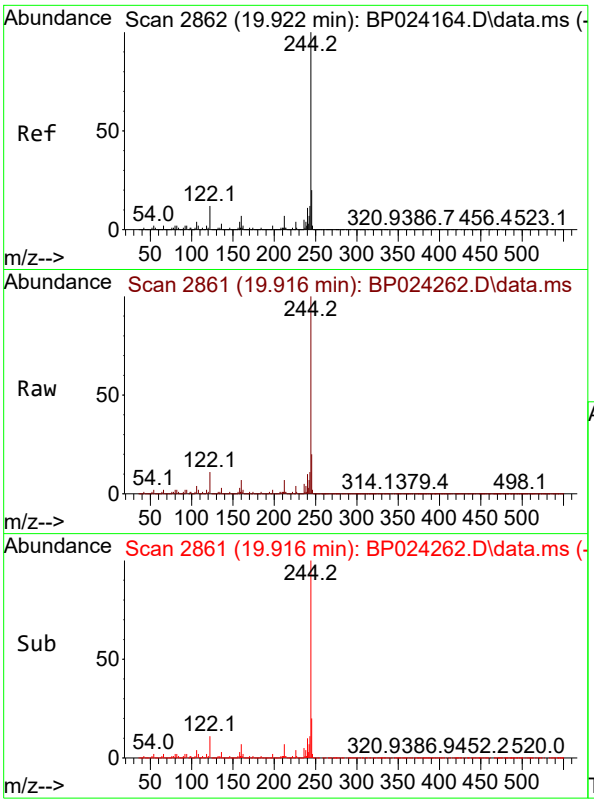


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:240 Resp: 1137897

Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.2	13.8
236	25.0	20.4	30.6



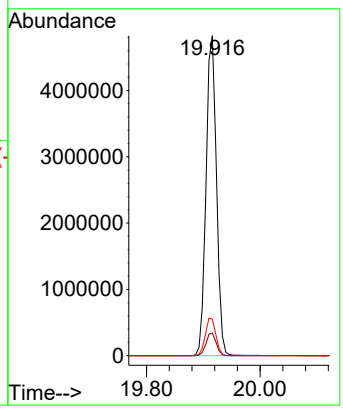


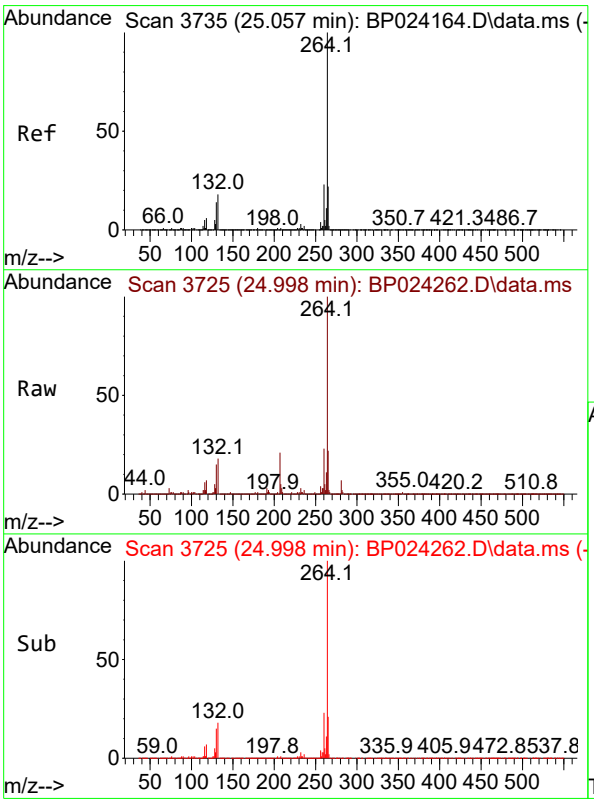
#79
Terphenyl-d14
Concen: 110.862 ng
RT: 19.916 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Instrument :
BNA_P
ClientSampleId :
PB167517TB

Tgt Ion:244 Resp: 6111210

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	11.4	9.6	14.4

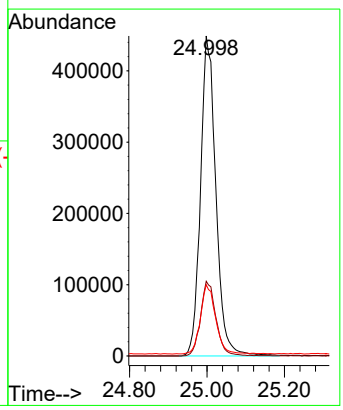




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.998 min Scan# 3725
Delta R.T. -0.012 min
Lab File: BP024262.D
Acq: 11 Apr 2025 11:45

Tgt Ion:264 Resp: 1235221

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.5	27.7
265	22.2	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024269.D
Acq On : 11 Apr 2025 17:02
Operator : RC/JU
Sample : Q1744-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Quant Time: Apr 11 17:41:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

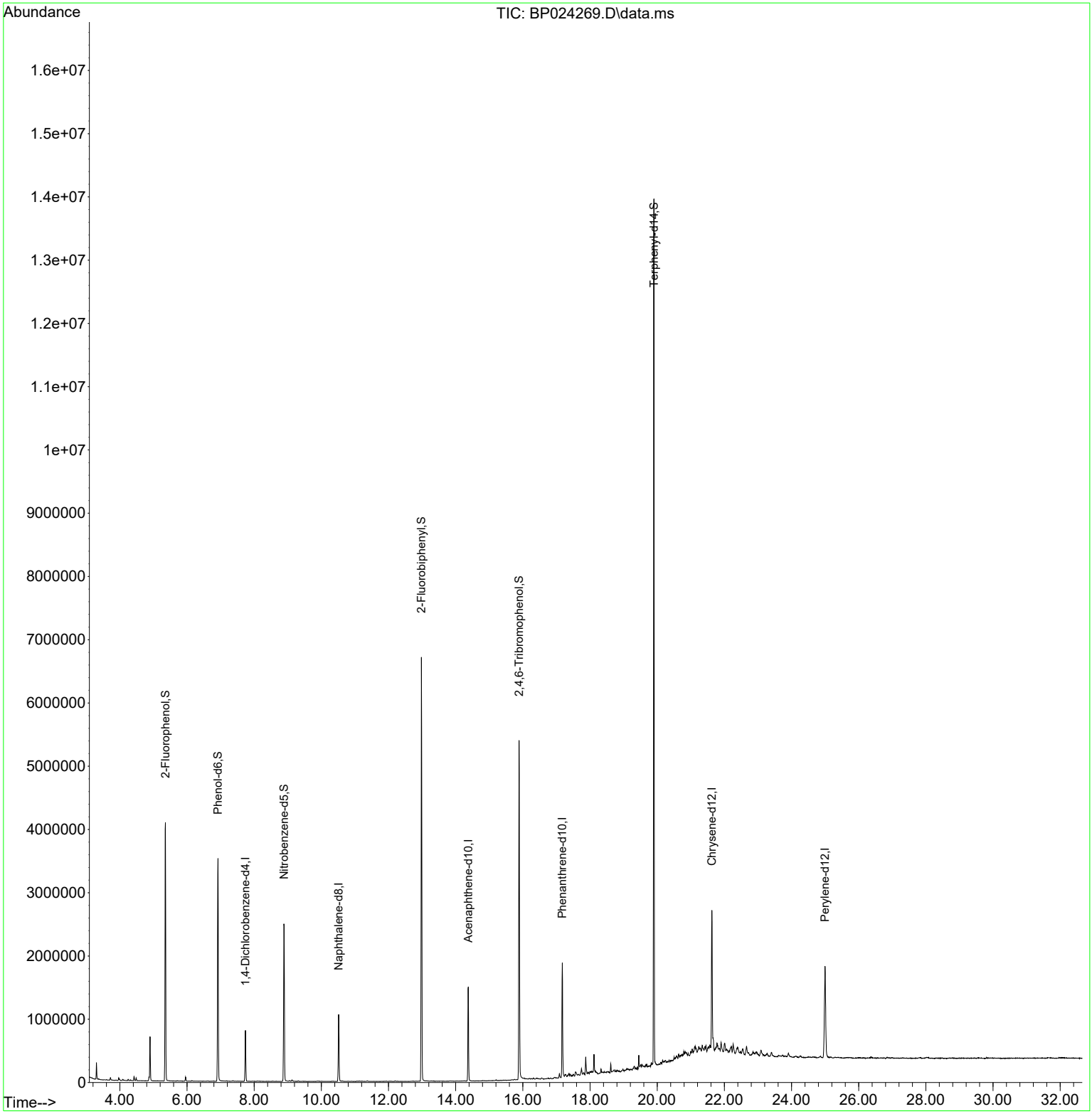
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	220580	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	853855	20.000	ng	-0.01
39) Acenaphthene-d10	14.375	164	516666	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1056169	20.000	ng	-0.02
76) Chrysene-d12	21.627	240	1289354	20.000	ng	-0.02
86) Perylene-d12	24.998	264	1408891	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	1854544	134.209	ng	0.00
7) Phenol-d6	6.922	99	2140587	115.841	ng	0.00
23) Nitrobenzene-d5	8.887	82	1513727	100.024	ng	0.00
42) 2,4,6-Tribromophenol	15.886	330	1095723	168.364	ng	-0.01
45) 2-Fluorobiphenyl	12.981	172	3262264	93.103	ng	-0.02
79) Terphenyl-d14	19.904	244	6161568	98.645	ng	-0.01
Target Compounds						Qvalue

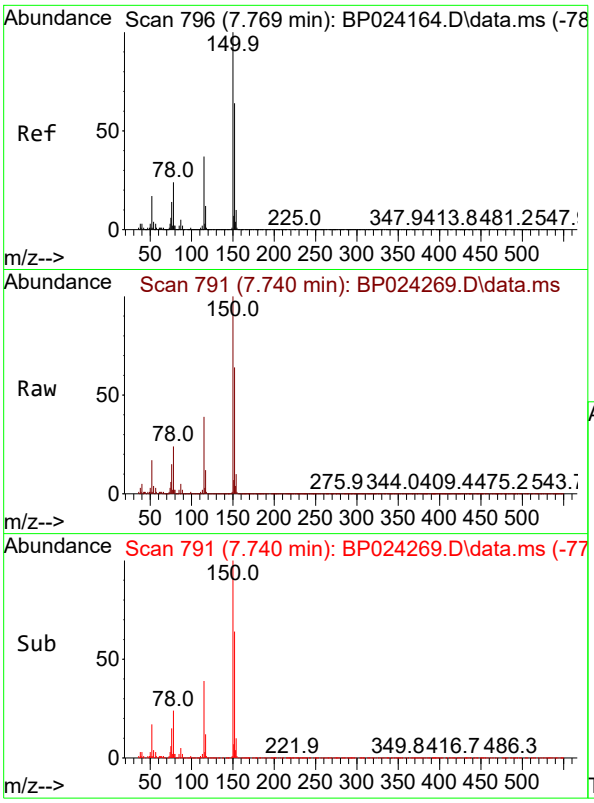
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024269.D
Acq On : 11 Apr 2025 17:02
Operator : RC/JU
Sample : Q1744-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Quant Time: Apr 11 17:41:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



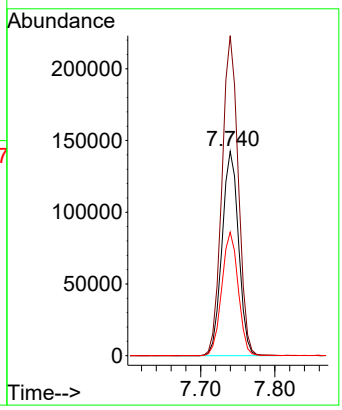


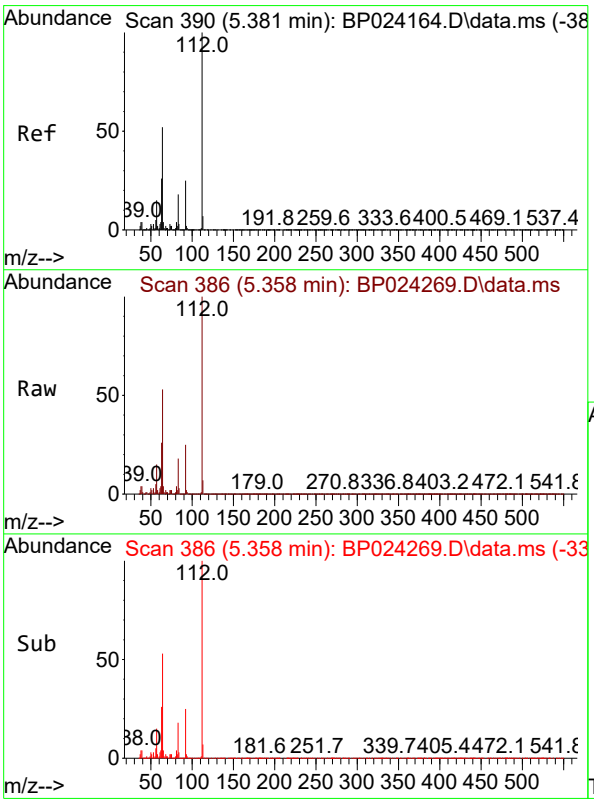
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Tgt Ion:152 Resp: 220580

Ion	Ratio	Lower	Upper
152	100		
150	156.6	125.5	188.3
115	60.5	46.3	69.5

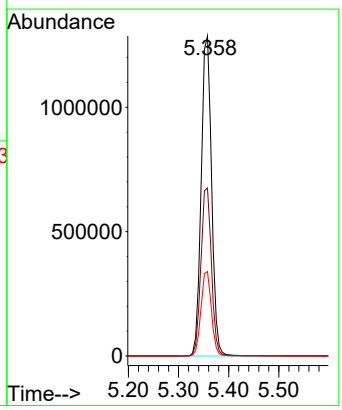


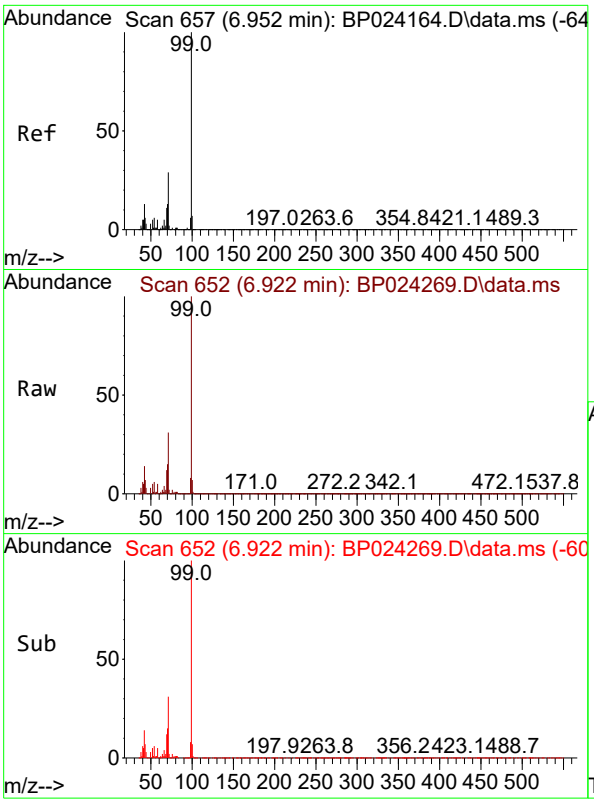


#5
2-Fluorophenol
Concen: 134.209 ng
RT: 5.358 min Scan# 386
Delta R.T. 0.000 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Tgt Ion:112 Resp: 1854544

Ion	Ratio	Lower	Upper
112	100		
64	52.5	41.3	61.9
63	26.4	20.6	31.0



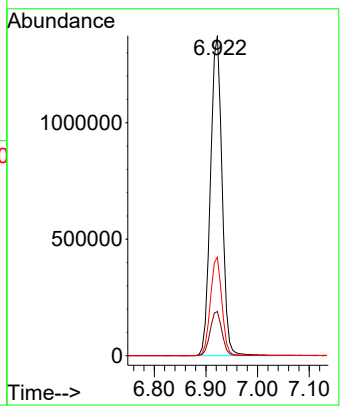


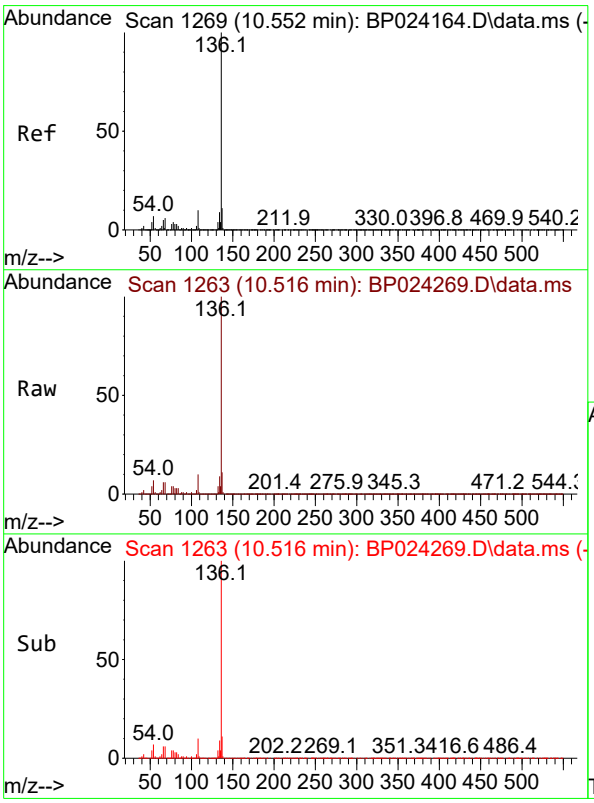
#7
Phenol-d6
Concen: 115.841 ng
RT: 6.922 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Tgt Ion: 99 Resp: 2140587

Ion	Ratio	Lower	Upper
99	100		
42	13.8	10.6	16.0
71	30.8	23.3	34.9

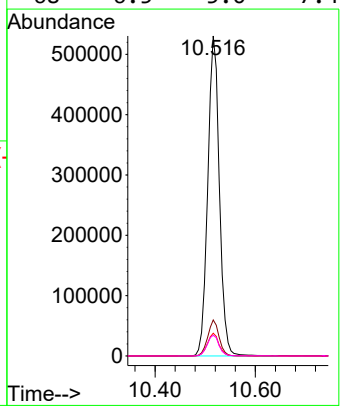


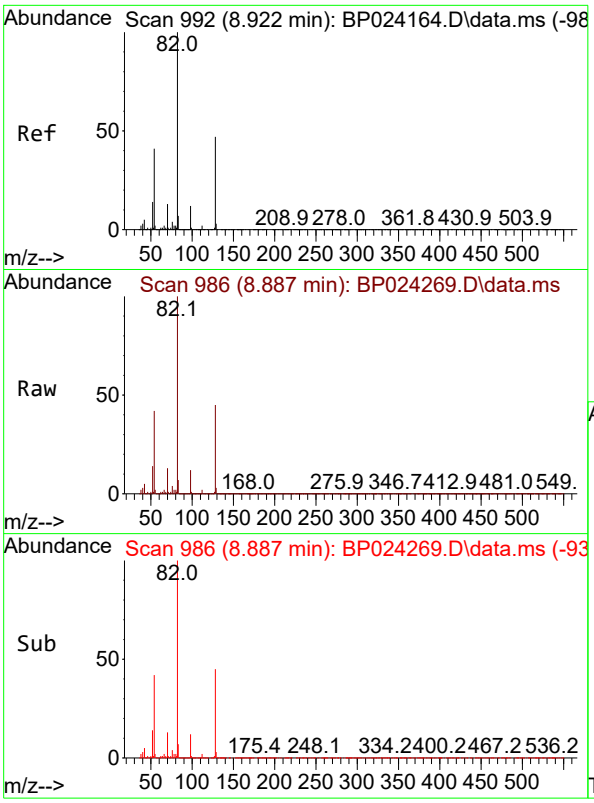


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.012 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Tgt Ion:136 Resp: 853855

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.1	5.3	7.9
68	6.5	5.0	7.4



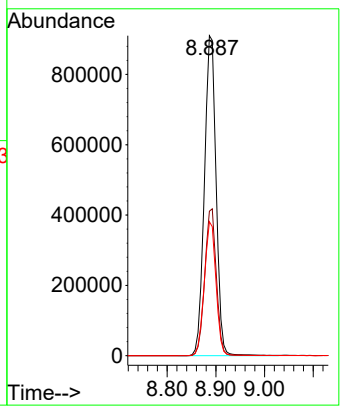


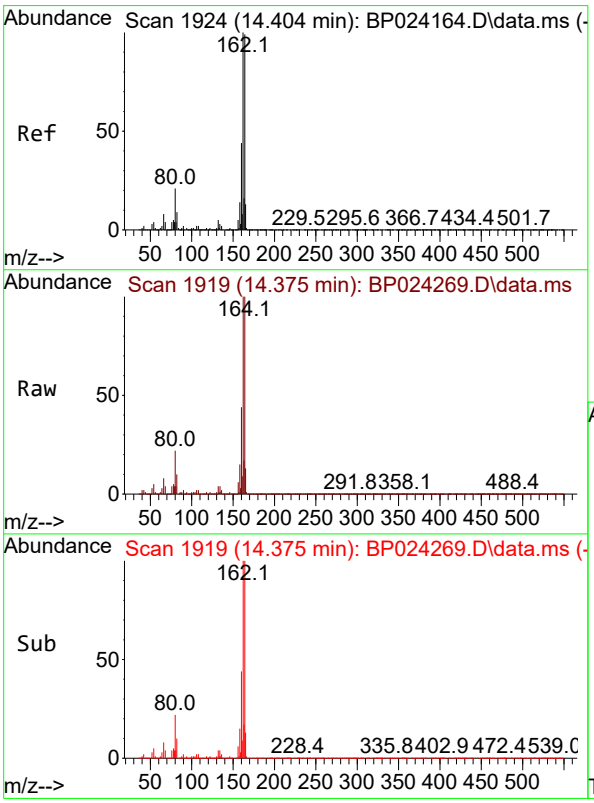
#23
Nitrobenzene-d5
Concen: 100.024 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Tgt Ion: 82 Resp: 1513727

Ion	Ratio	Lower	Upper
82	100		
128	45.1	37.4	56.0
54	41.9	32.5	48.7

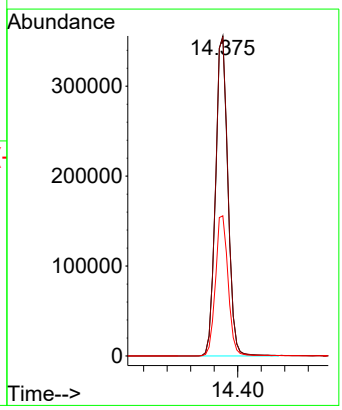


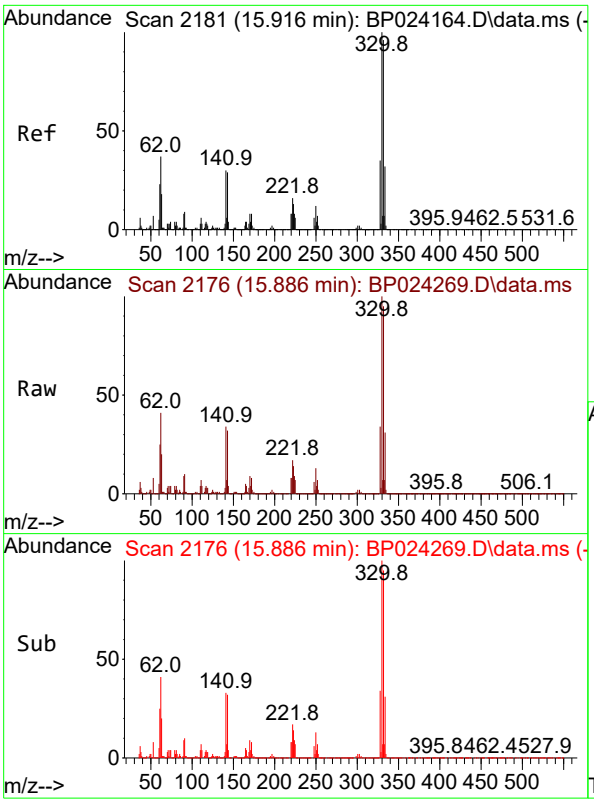


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.375 min Scan# 1919
Delta R.T. -0.018 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Tgt Ion:164 Resp: 516666

Ion	Ratio	Lower	Upper
164	100		
162	99.6	80.6	121.0
160	43.8	35.4	53.2



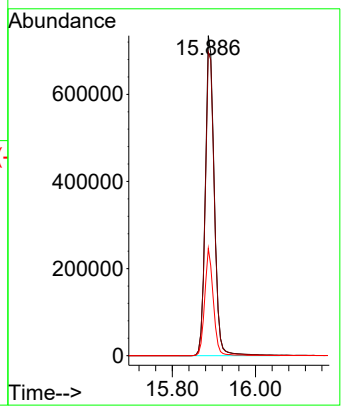


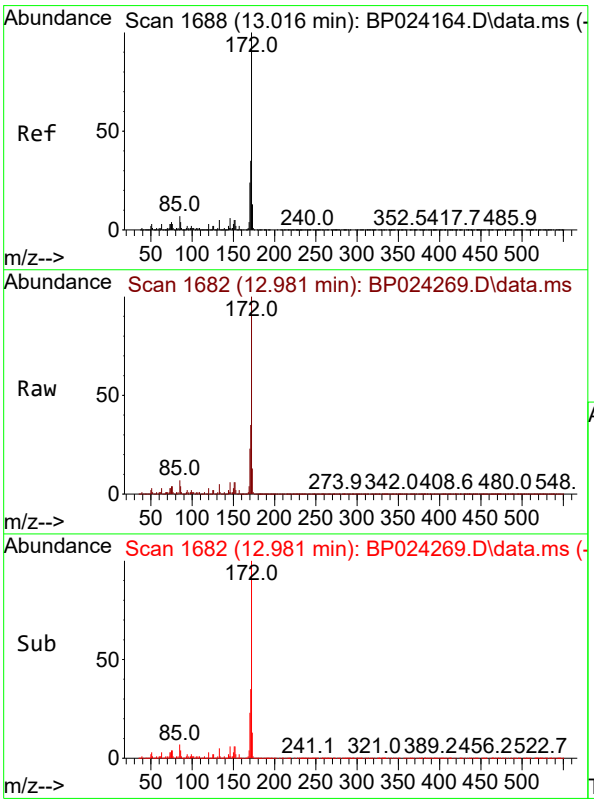
#42
2,4,6-Tribromophenol
Concen: 168.364 ng
RT: 15.886 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Tgt Ion:330 Resp: 1095723

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.6	116.4
141	32.2	25.0	37.6

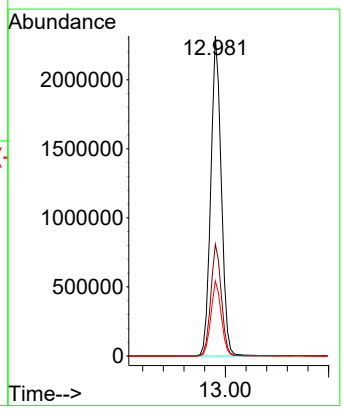


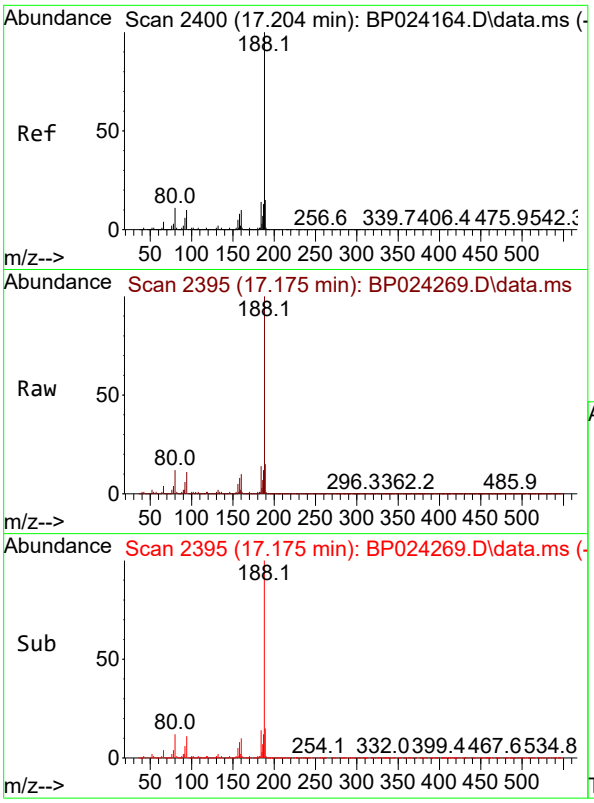


#45
2-Fluorobiphenyl
Concen: 93.103 ng
RT: 12.981 min Scan# 1682
Delta R.T. -0.018 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Tgt Ion:172 Resp: 3262264

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.3	42.5
170	23.5	19.0	28.4



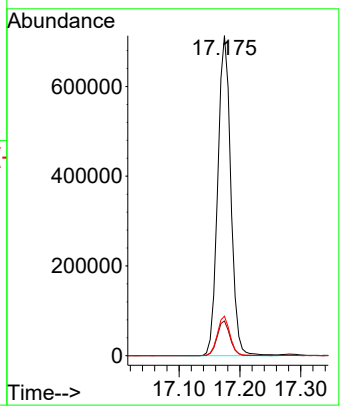


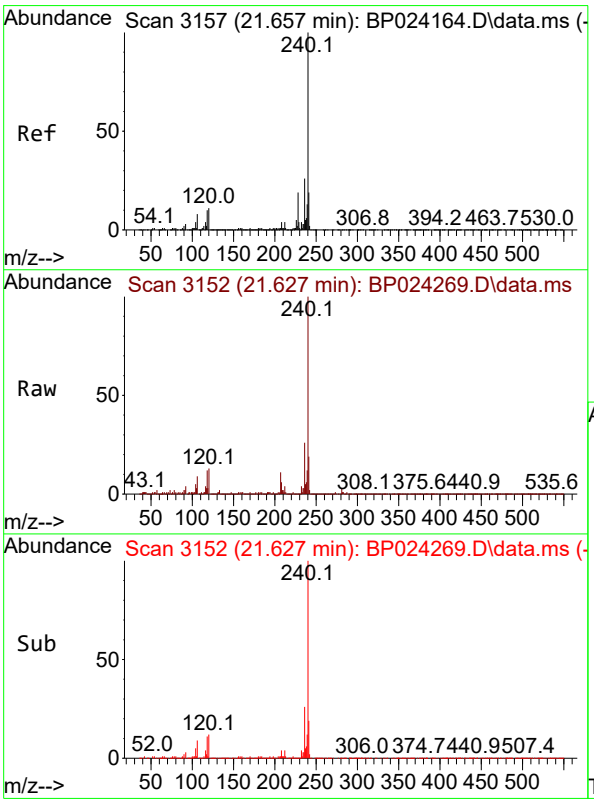
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.175 min Scan# 2
Delta R.T. -0.018 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Tgt Ion:188 Resp: 1056169

Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.1	12.1
80	12.3	8.9	13.3

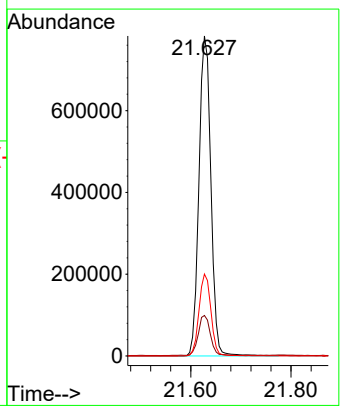


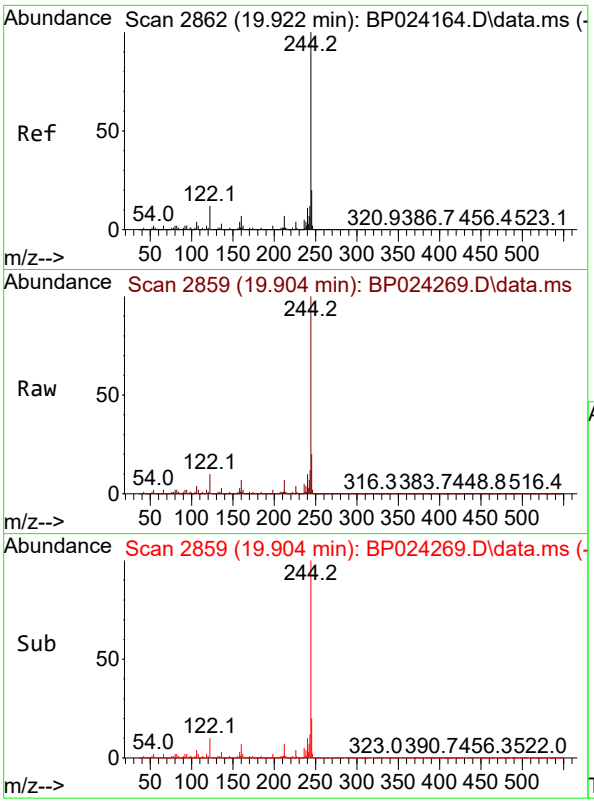


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.627 min Scan# 3152
Delta R.T. -0.018 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Tgt Ion:240 Resp: 1289354

Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.2	13.8
236	25.6	20.4	30.6



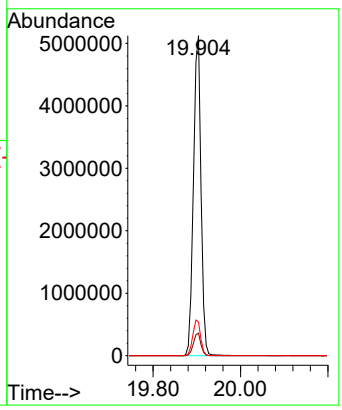


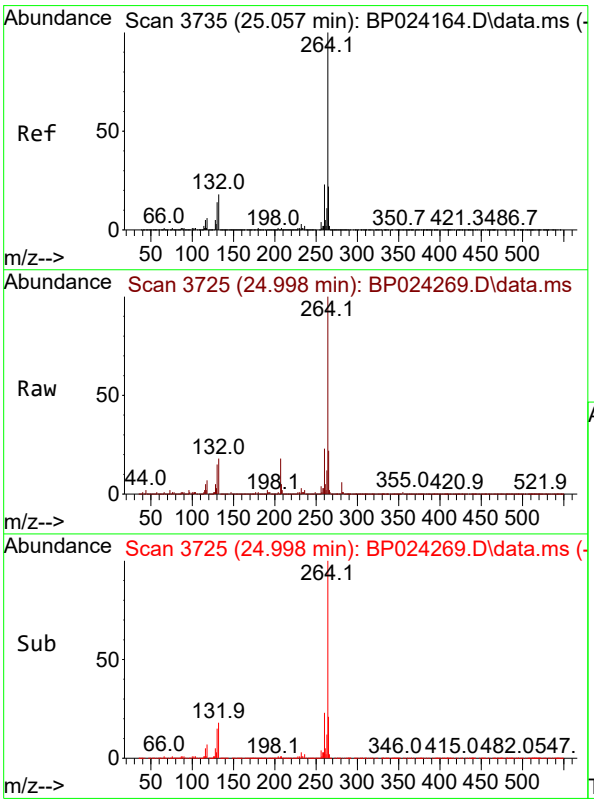
#79
Terphenyl-d14
Concen: 98.645 ng
RT: 19.904 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Instrument :
BNA_P
ClientSampleId :
B-158-SB01

Tgt Ion:244 Resp: 6161568

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	10.5	9.6	14.4

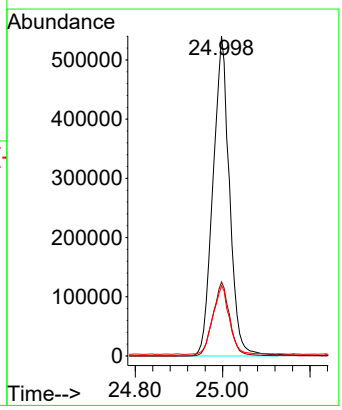




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.998 min Scan# 3725
Delta R.T. -0.012 min
Lab File: BP024269.D
Acq: 11 Apr 2025 17:02

Tgt Ion:264 Resp: 1408891

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.5	27.7
265	21.9	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024270.D
Acq On : 11 Apr 2025 17:42
Operator : RC/JU
Sample : Q1744-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Quant Time: Apr 11 18:25:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

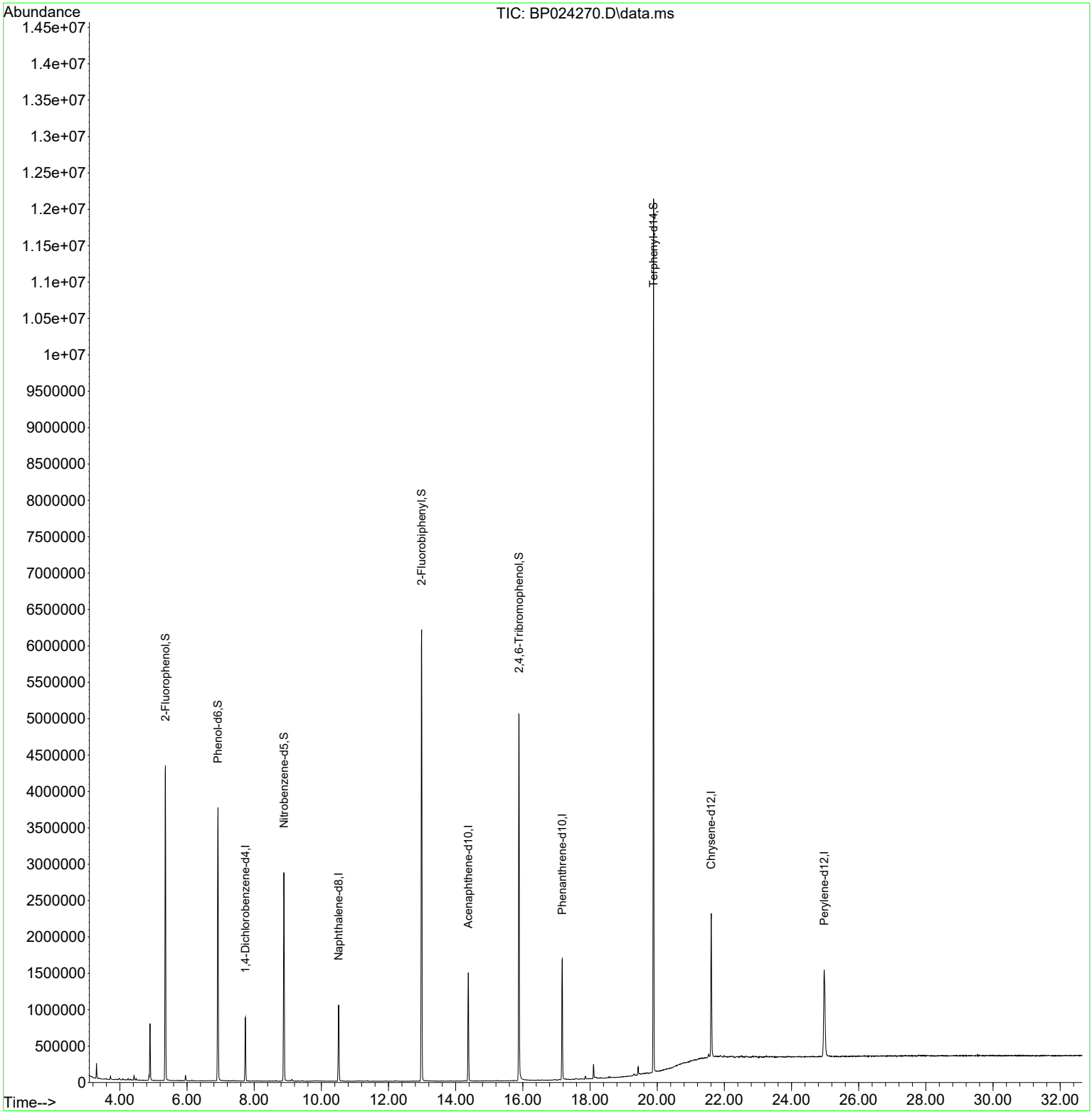
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	241596	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	924650	20.000	ng	-0.01
39) Acenaphthene-d10	14.375	164	524708	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1030674	20.000	ng	-0.02
76) Chrysene-d12	21.610	240	1146421	20.000	ng	-0.04
86) Perylene-d12	24.974	264	1313027	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	1998621	132.054	ng	0.00
7) Phenol-d6	6.922	99	2292170	113.253	ng	0.00
23) Nitrobenzene-d5	8.887	82	1656466	101.076	ng	0.00
42) 2,4,6-Tribromophenol	15.887	330	1043223	157.840	ng	-0.01
45) 2-Fluorobiphenyl	12.987	172	3429390	96.372	ng	-0.01
79) Terphenyl-d14	19.892	244	5592269	100.693	ng	-0.02
Target Compounds						Qvalue

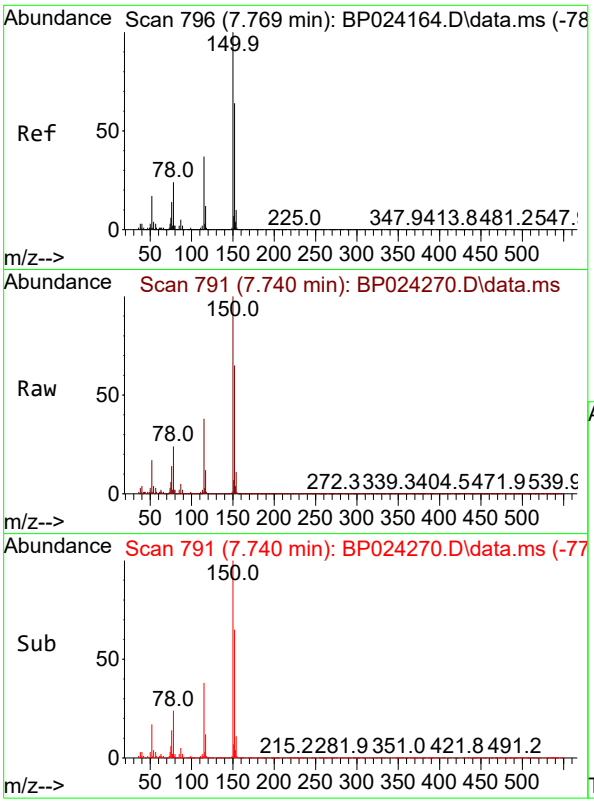
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024270.D
Acq On : 11 Apr 2025 17:42
Operator : RC/JU
Sample : Q1744-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Quant Time: Apr 11 18:25:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



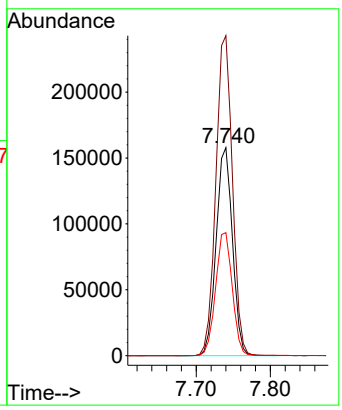


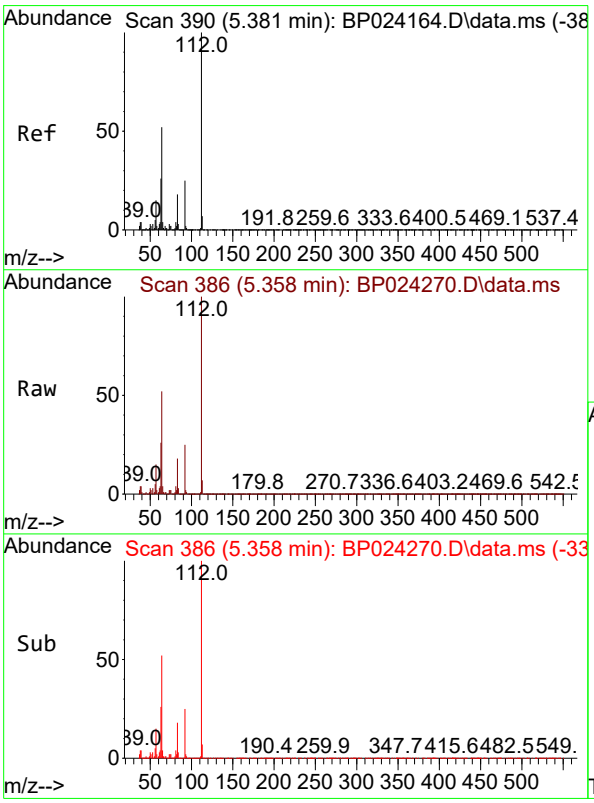
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.740 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Tgt Ion:152 Resp: 241596

Ion	Ratio	Lower	Upper
152	100		
150	153.9	125.5	188.3
115	59.2	46.3	69.5

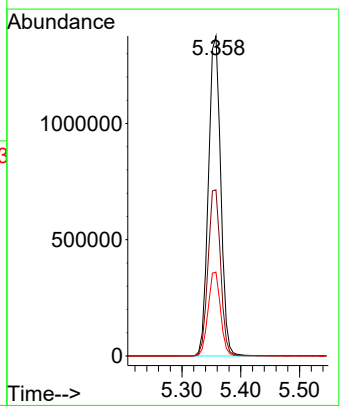


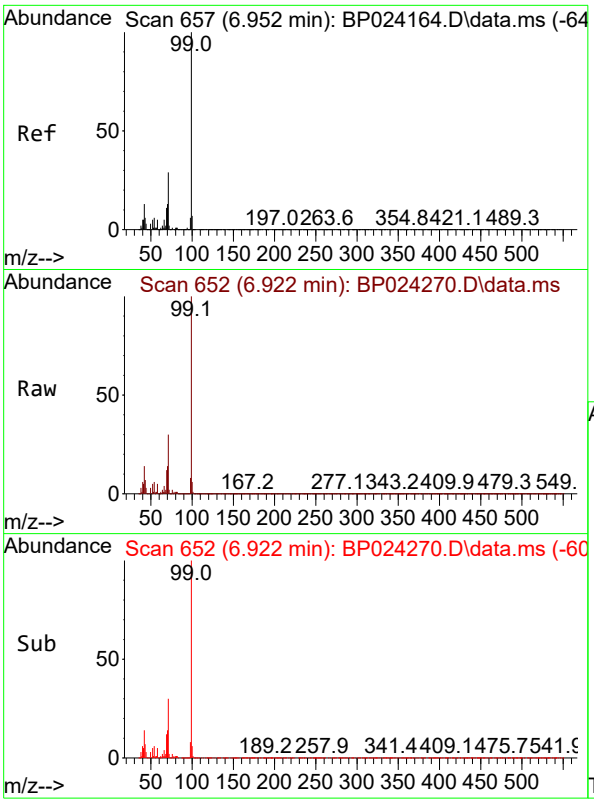


#5
2-Fluorophenol
Concen: 132.054 ng
RT: 5.358 min Scan# 386
Delta R.T. 0.000 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Tgt Ion:112 Resp: 1998621

Ion	Ratio	Lower	Upper
112	100		
64	51.9	41.3	61.9
63	26.2	20.6	31.0



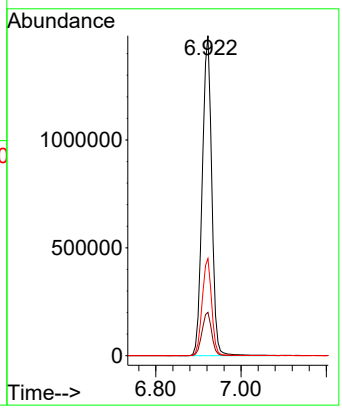


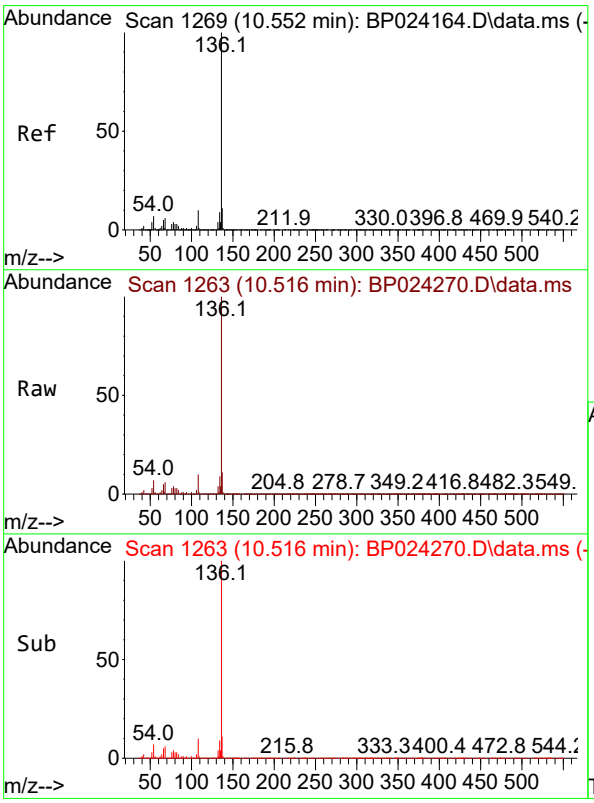
#7
Phenol-d6
Concen: 113.253 ng
RT: 6.922 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Tgt Ion: 99 Resp: 2292170

Ion	Ratio	Lower	Upper
99	100		
42	13.5	10.6	16.0
71	30.4	23.3	34.9

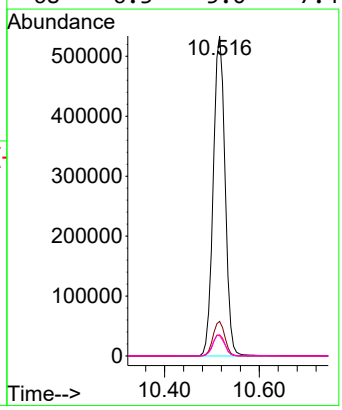


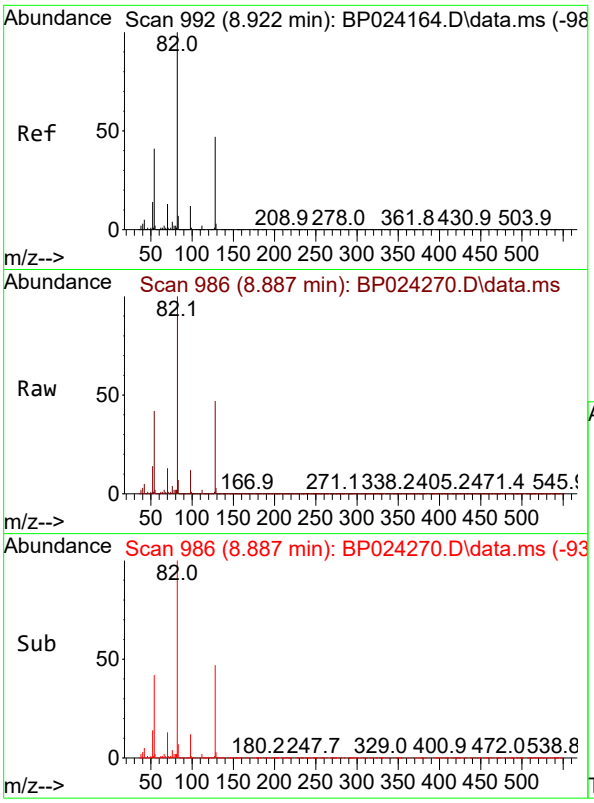


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.012 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Tgt Ion:136 Resp: 924650

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.6	5.3	7.9
68	6.3	5.0	7.4



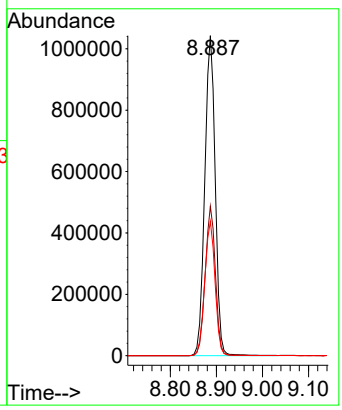


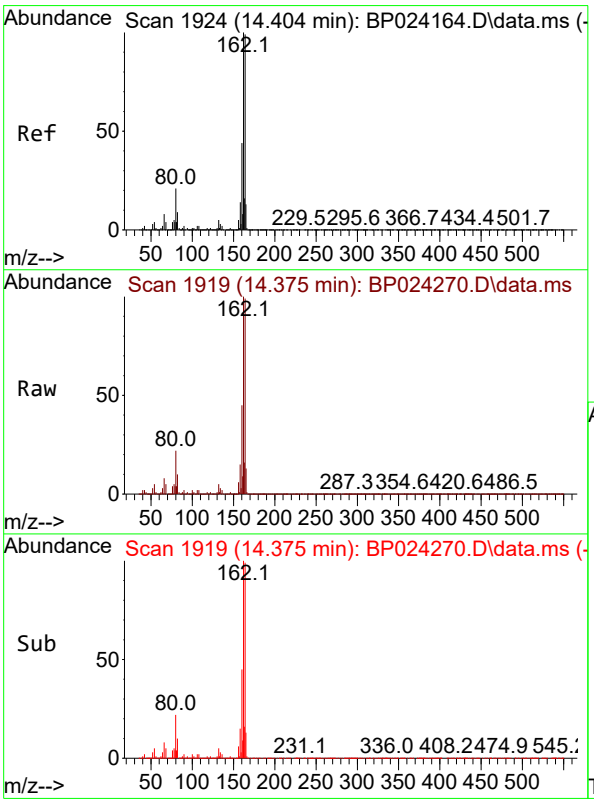
#23
Nitrobenzene-d5
Concen: 101.076 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Tgt Ion: 82 Resp: 1656466

Ion	Ratio	Lower	Upper
82	100		
128	46.7	37.4	56.0
54	42.0	32.5	48.7

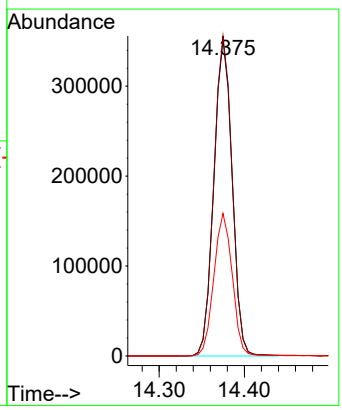


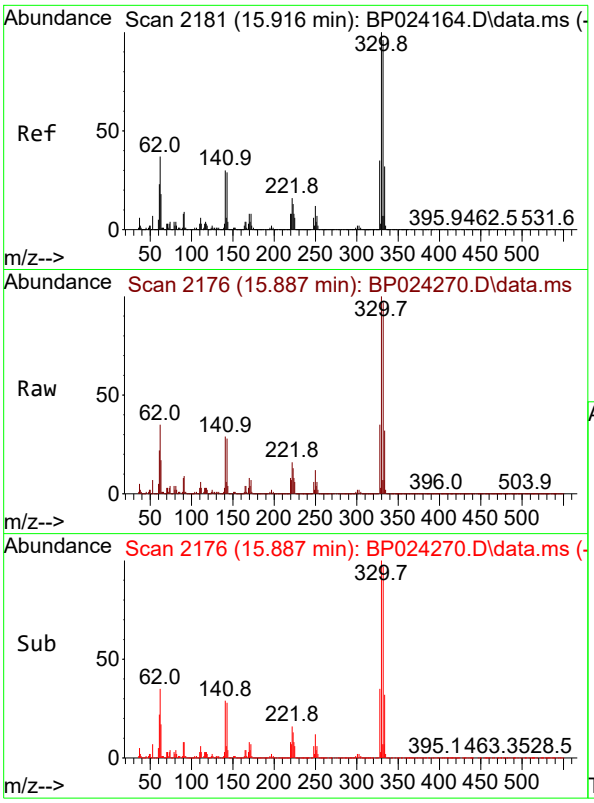


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.375 min Scan# 1919
Delta R.T. -0.017 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Tgt Ion:164 Resp: 524708

Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.6	121.0
160	45.1	35.4	53.2



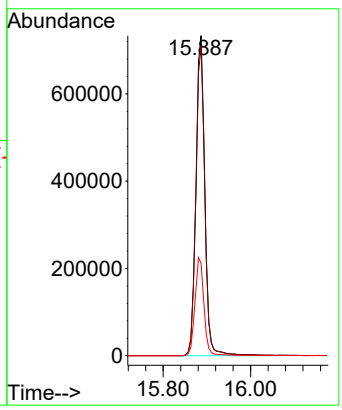


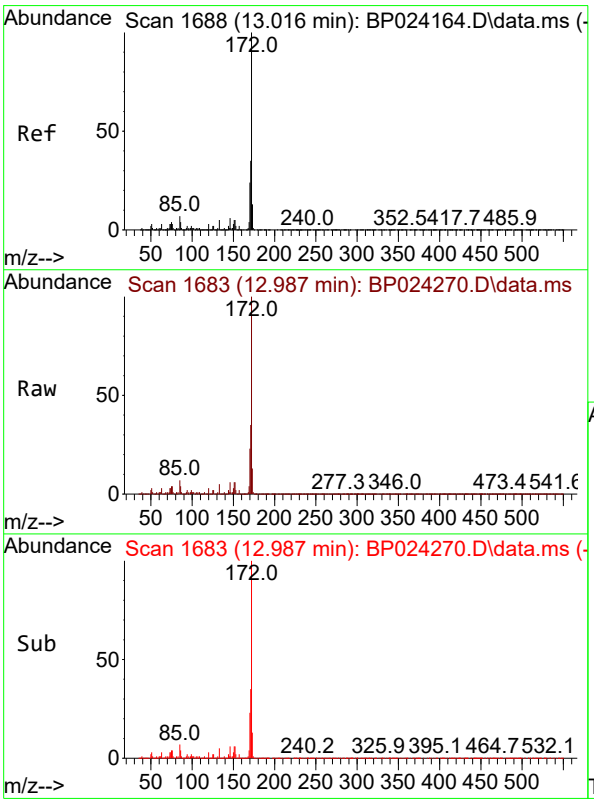
#42
2,4,6-Tribromophenol
Concen: 157.840 ng
RT: 15.887 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Tgt Ion:330 Resp: 1043223

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.6	116.4
141	31.1	25.0	37.6

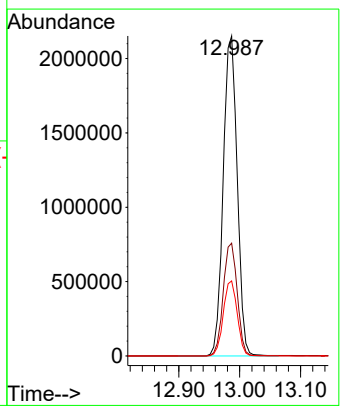


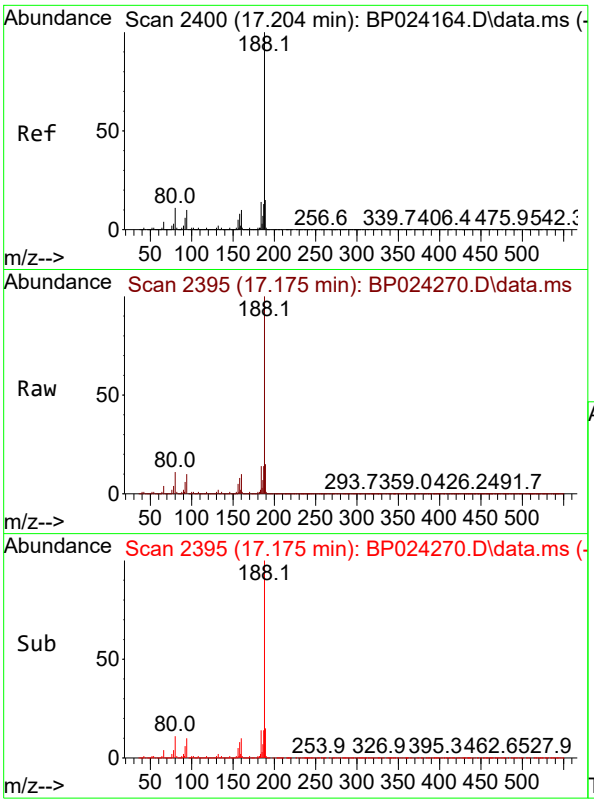


#45
2-Fluorobiphenyl
Concen: 96.372 ng
RT: 12.987 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Tgt Ion:172 Resp: 3429390

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.5	19.0	28.4



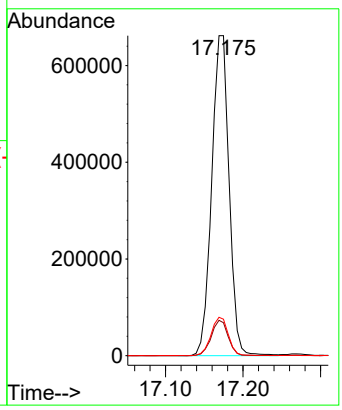


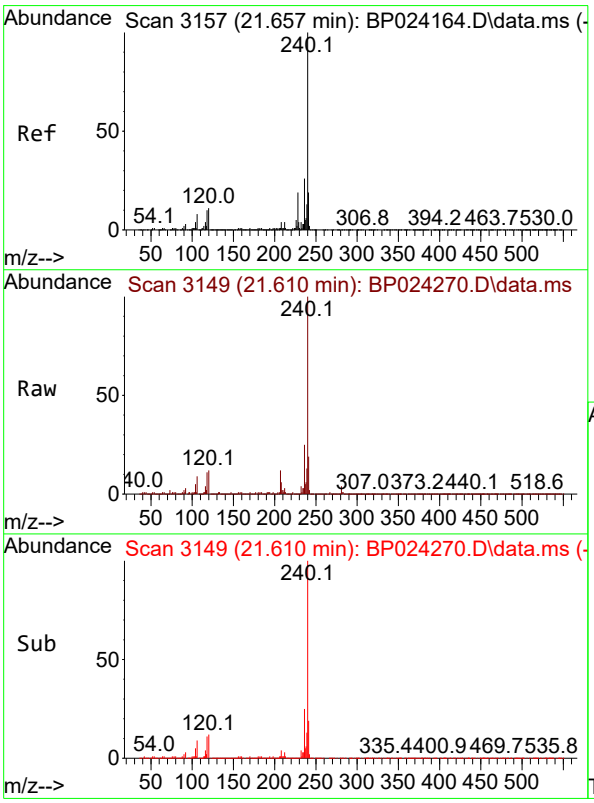
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.175 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Tgt Ion:188 Resp: 1030674

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.1	12.1
80	11.4	8.9	13.3

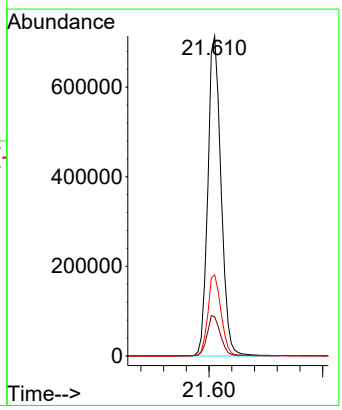


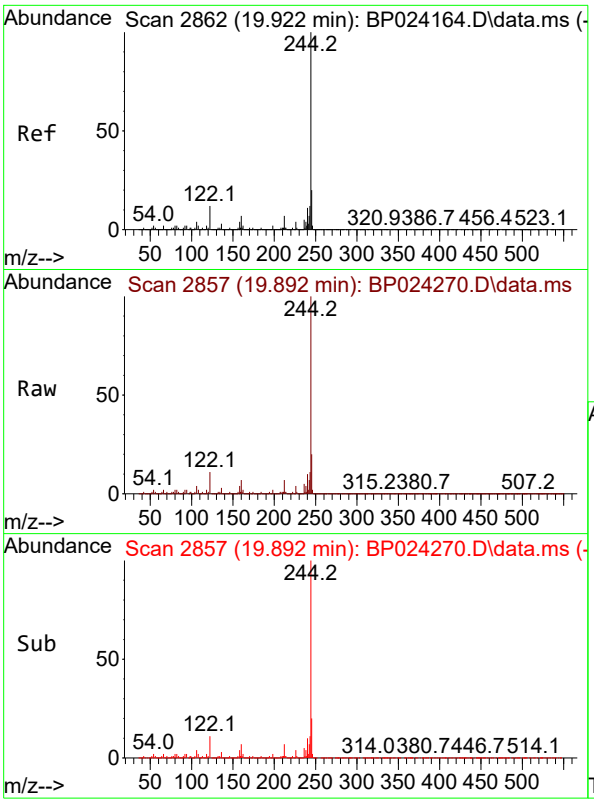


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.610 min Scan# 3149
Delta R.T. -0.035 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Tgt Ion:240 Resp: 1146421

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.2	13.8
236	25.3	20.4	30.6



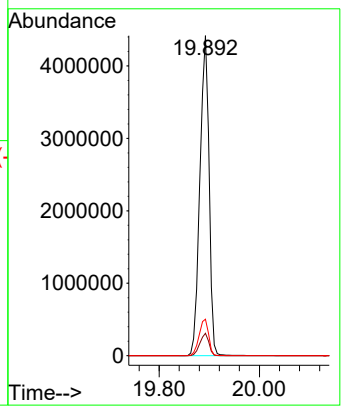


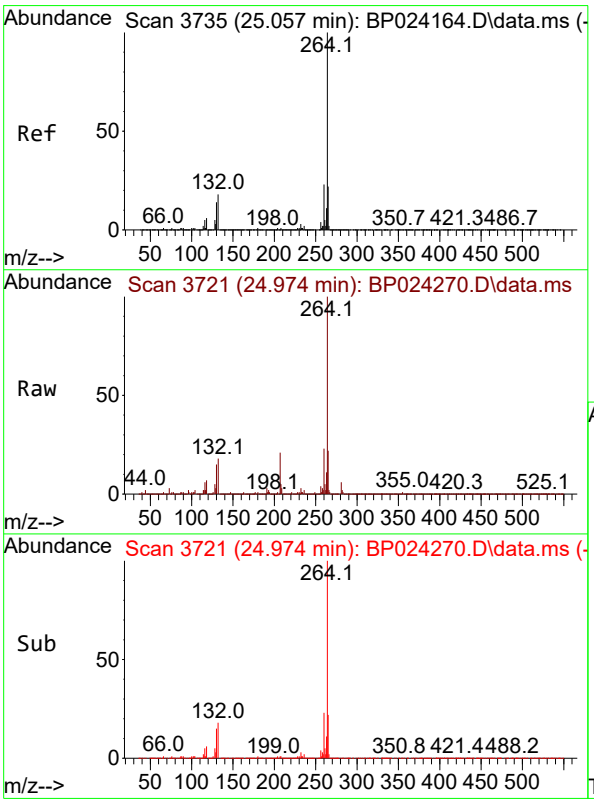
#79
Terphenyl-d14
Concen: 100.693 ng
RT: 19.892 min Scan# 2
Delta R.T. -0.023 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Instrument :
BNA_P
ClientSampleId :
B-158-SB02

Tgt Ion:244 Resp: 5592269

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	11.4	9.6	14.4

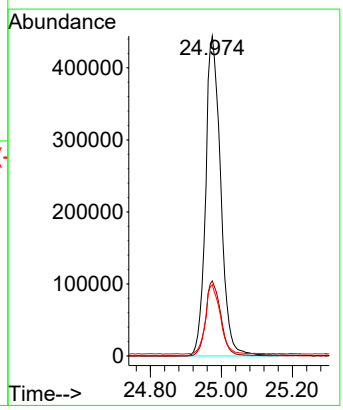




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.974 min Scan# 3721
Delta R.T. -0.035 min
Lab File: BP024270.D
Acq: 11 Apr 2025 17:42

Tgt Ion:264 Resp: 1313027

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.5	27.7
265	22.2	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024260.D
Acq On : 11 Apr 2025 10:23
Operator : RC/JU
Sample : PB167537BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Quant Time: Apr 11 11:44:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

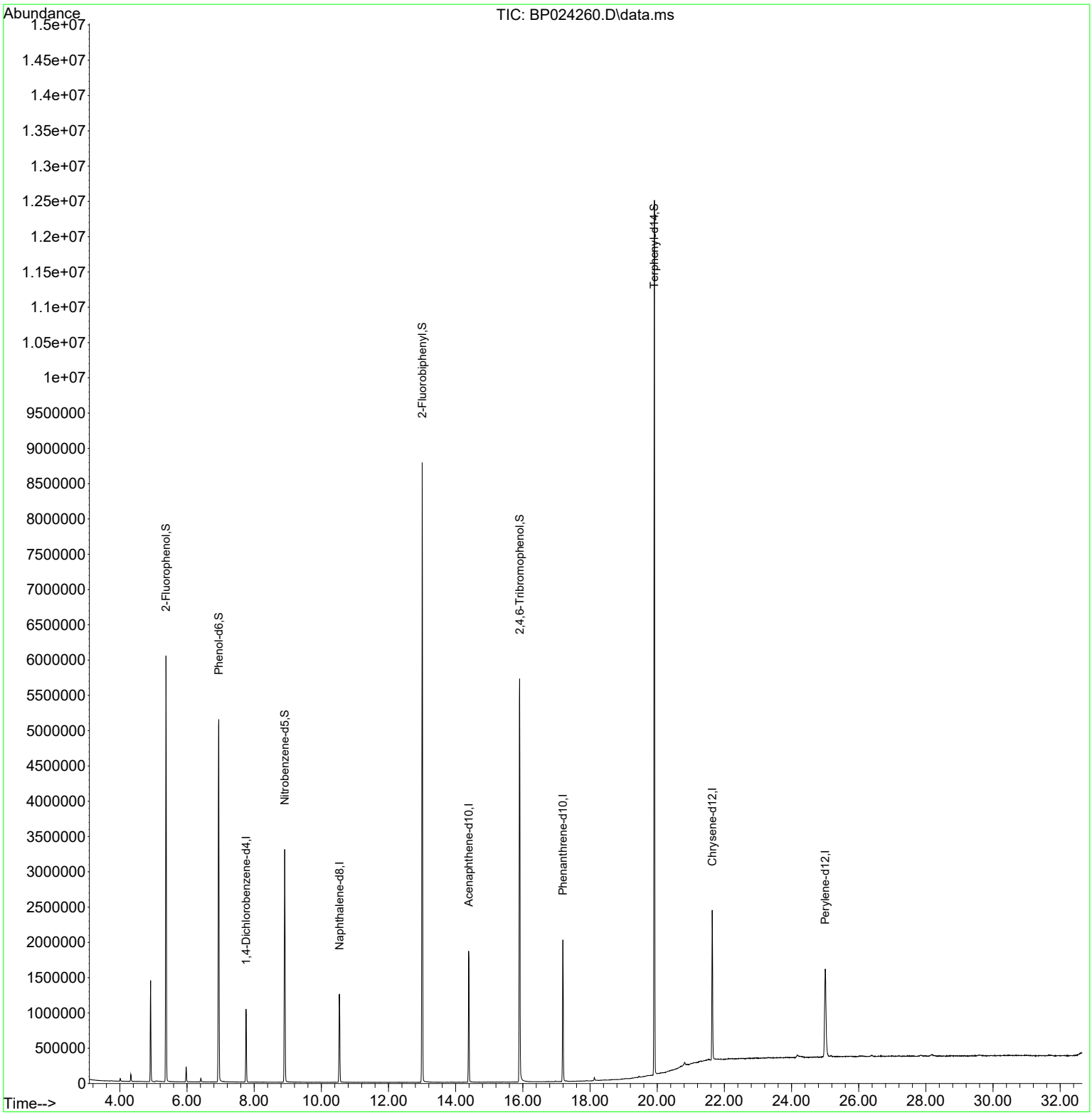
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.757	152	279458	20.000	ng	0.01
21) Naphthalene-d8	10.540	136	1100931	20.000	ng	0.01
39) Acenaphthene-d10	14.386	164	638188	20.000	ng	0.00
64) Phenanthrene-d10	17.192	188	1225652	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1255527	20.000	ng	0.00
86) Perylene-d12	25.003	264	1409207	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2704618	154.490	ng	0.02
7) Phenol-d6	6.946	99	3332016	142.326	ng	0.02
23) Nitrobenzene-d5	8.910	82	1999498	102.471	ng	0.02
42) 2,4,6-Tribromophenol	15.904	330	1311135	163.101	ng	0.00
45) 2-Fluorobiphenyl	13.004	172	4338513	100.241	ng	0.00
79) Terphenyl-d14	19.916	244	6507421	106.989	ng	0.00
Target Compounds						Qvalue

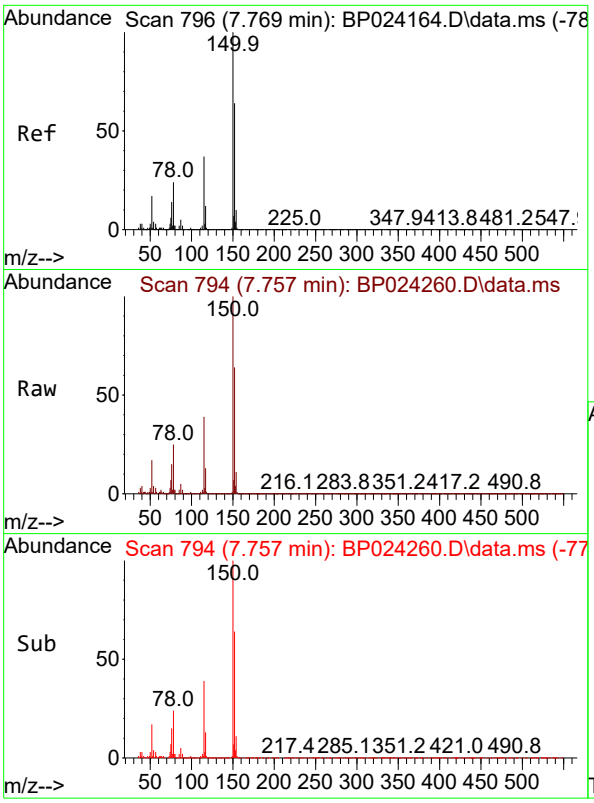
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024260.D
Acq On : 11 Apr 2025 10:23
Operator : RC/JU
Sample : PB167537BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Quant Time: Apr 11 11:44:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



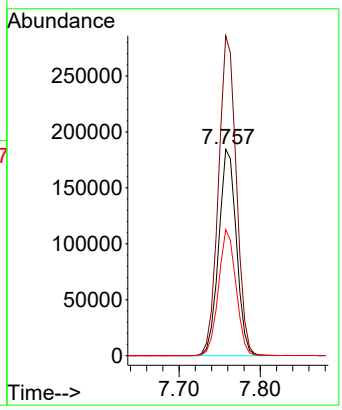


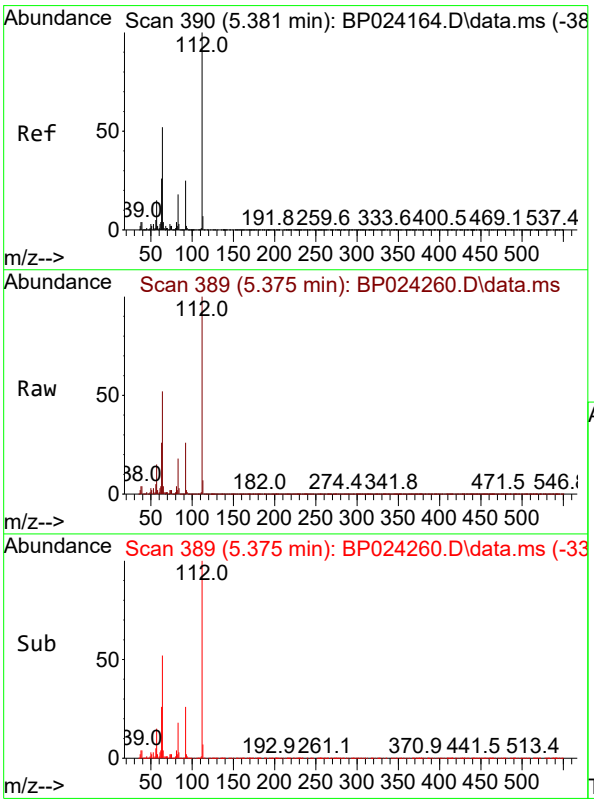
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. 0.011 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:152 Resp: 279458

Ion	Ratio	Lower	Upper
152	100		
150	155.0	125.5	188.3
115	61.1	46.3	69.5

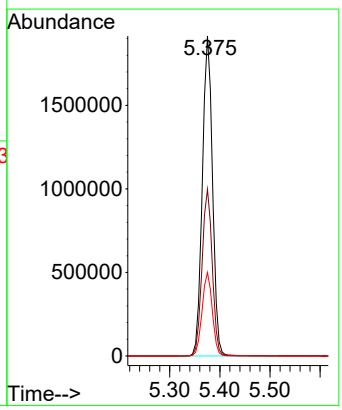


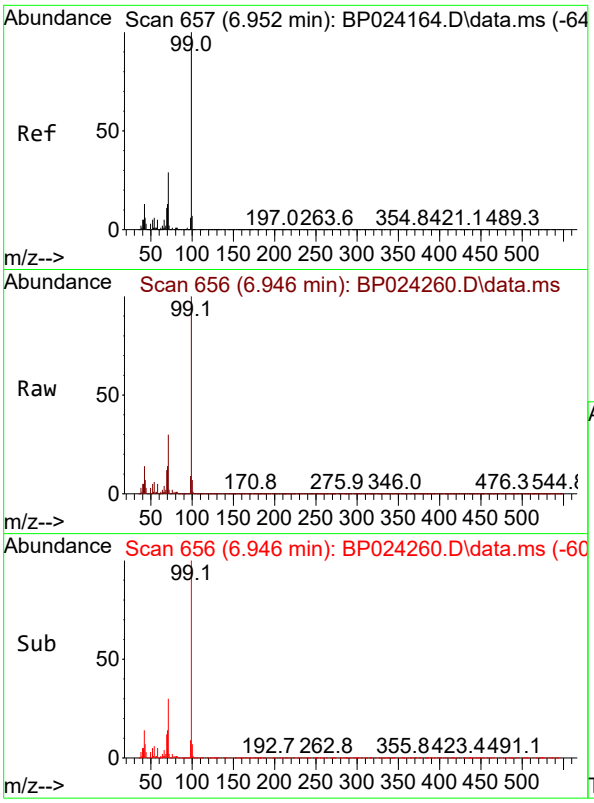


#5
2-Fluorophenol
Concen: 154.490 ng
RT: 5.375 min Scan# 389
Delta R.T. 0.018 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:112 Resp: 2704618

Ion	Ratio	Lower	Upper
112	100		
64	52.1	41.3	61.9
63	26.1	20.6	31.0



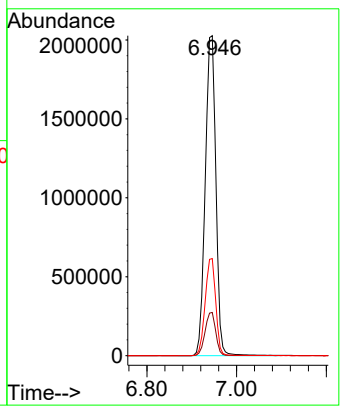


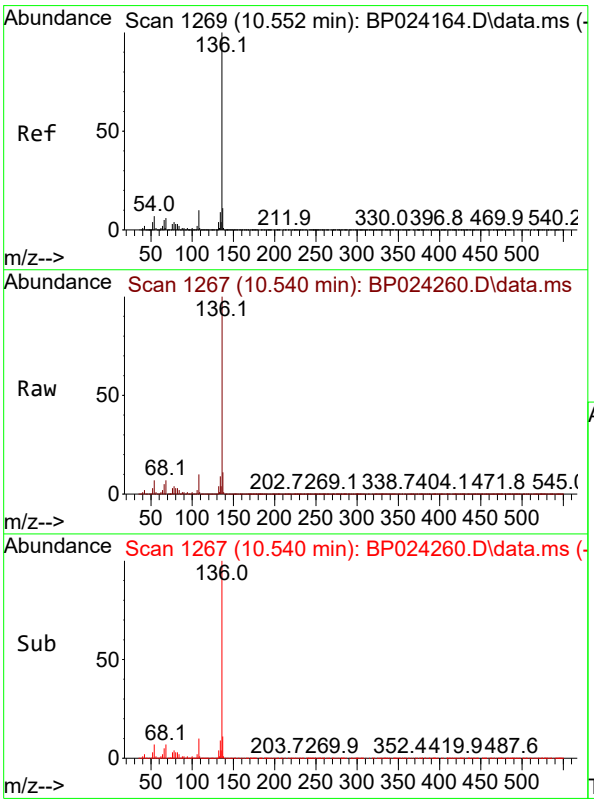
#7
Phenol-d6
Concen: 142.326 ng
RT: 6.946 min Scan# 6
Delta R.T. 0.018 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion: 99 Resp: 3332016

Ion	Ratio	Lower	Upper
99	100		
42	13.5	10.6	16.0
71	30.4	23.3	34.9

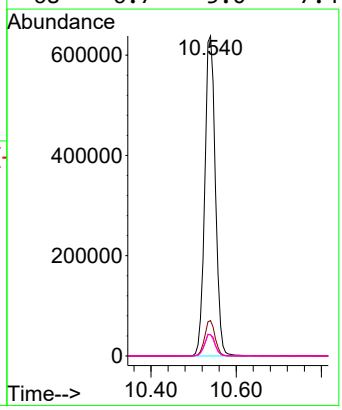


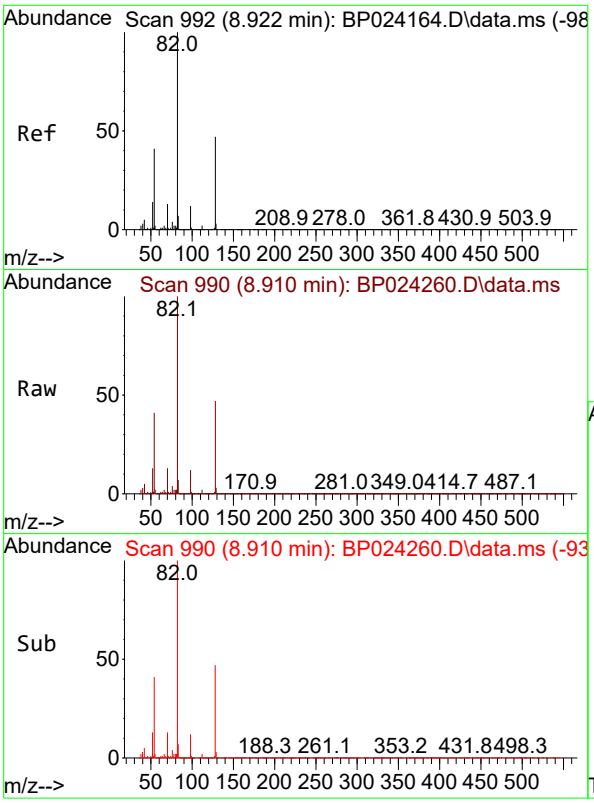


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.540 min Scan# 1267
Delta R.T. 0.012 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:136 Resp: 1100931

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	6.6	5.3	7.9
68	6.7	5.0	7.4



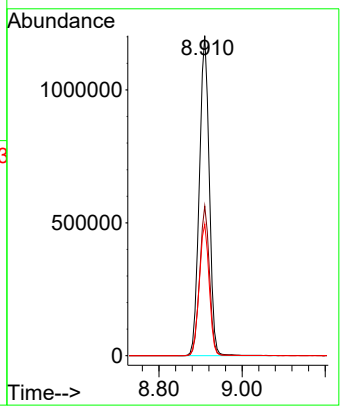


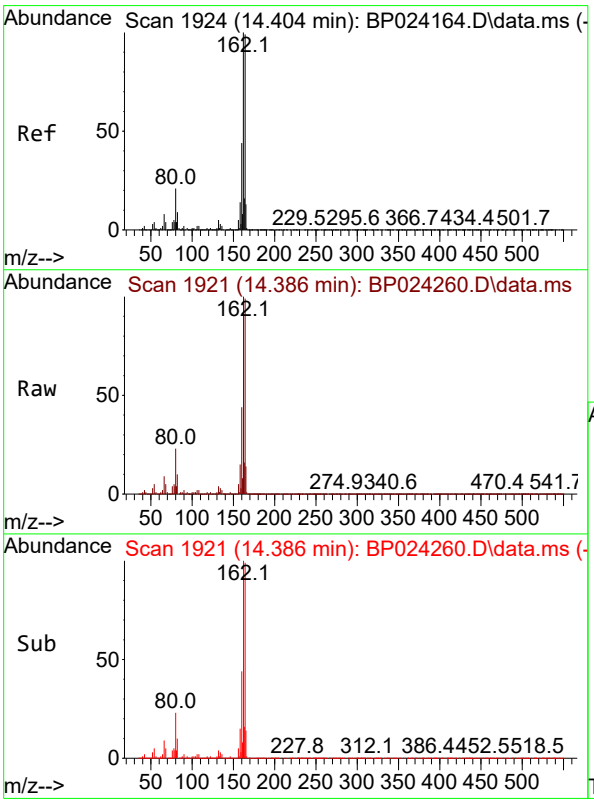
#23
Nitrobenzene-d5
Concen: 102.471 ng
RT: 8.910 min Scan# 9
Delta R.T. 0.018 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion: 82 Resp: 1999498

Ion	Ratio	Lower	Upper
82	100		
128	46.7	37.4	56.0
54	41.2	32.5	48.7

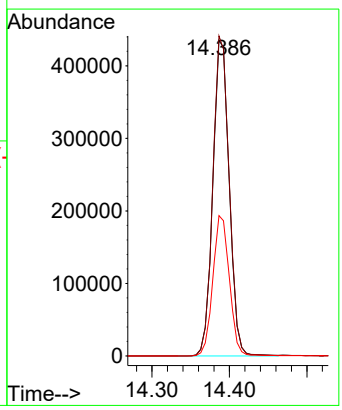


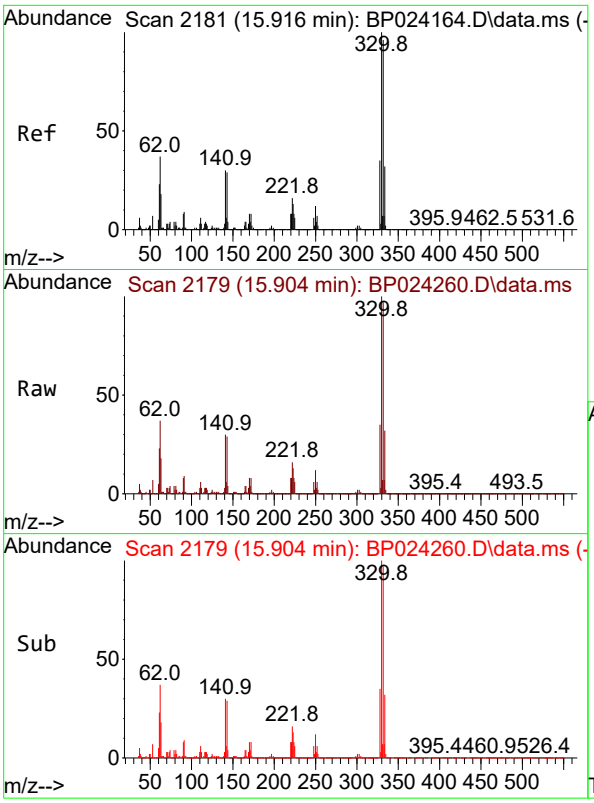


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.386 min Scan# 1921
Delta R.T. -0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:164 Resp: 638188

Ion	Ratio	Lower	Upper
164	100		
162	101.4	80.6	121.0
160	44.5	35.4	53.2



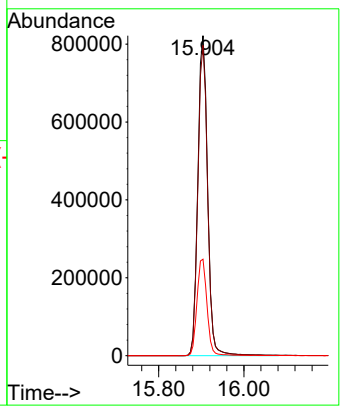


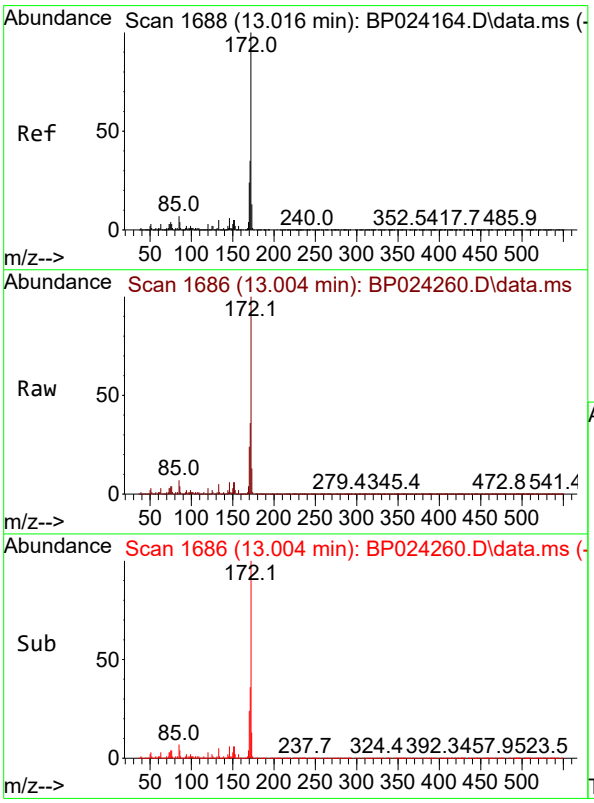
#42
2,4,6-Tribromophenol
Concen: 163.101 ng
RT: 15.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:330 Resp: 1311135

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.6	116.4
141	30.9	25.0	37.6

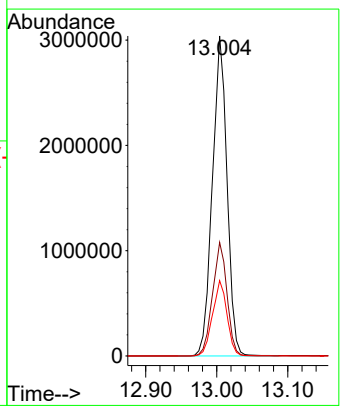


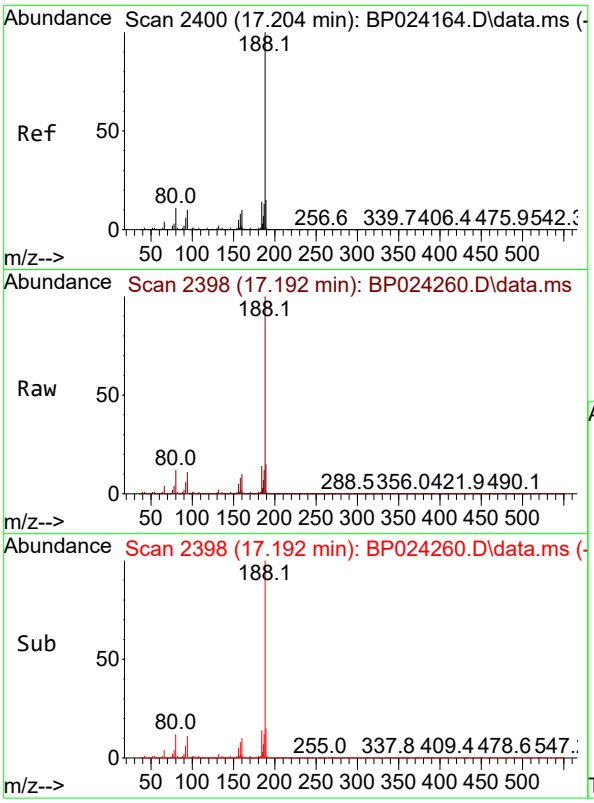


#45
2-Fluorobiphenyl
Concen: 100.241 ng
RT: 13.004 min Scan# 1686
Delta R.T. 0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:172 Resp: 4338513

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.3	42.5
170	23.6	19.0	28.4



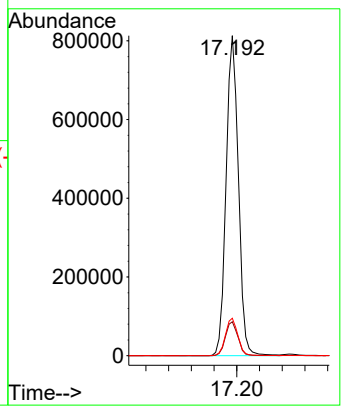


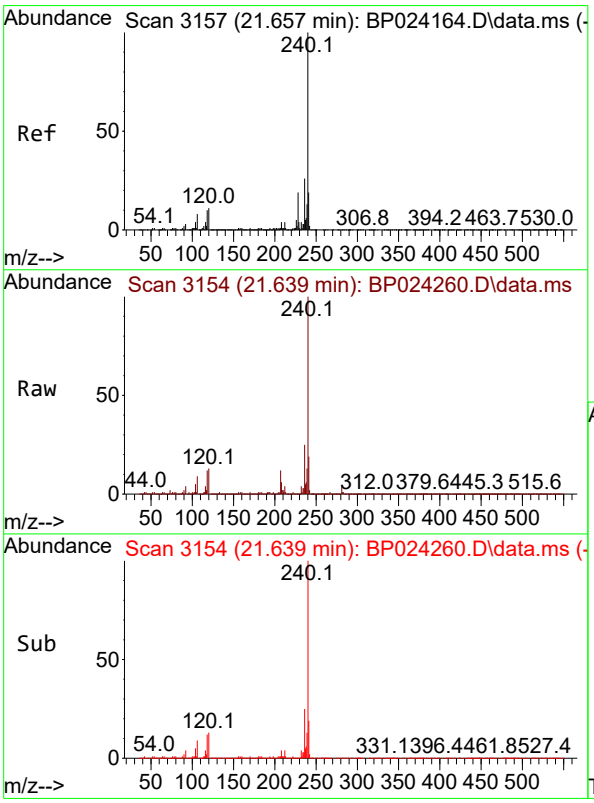
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:188 Resp: 1225652

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.1	12.1
80	11.7	8.9	13.3

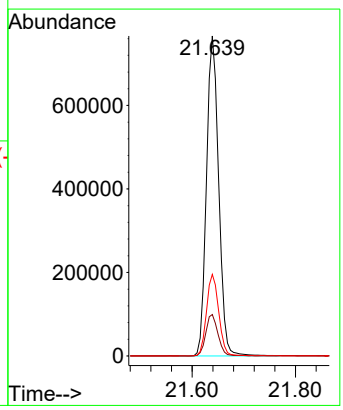


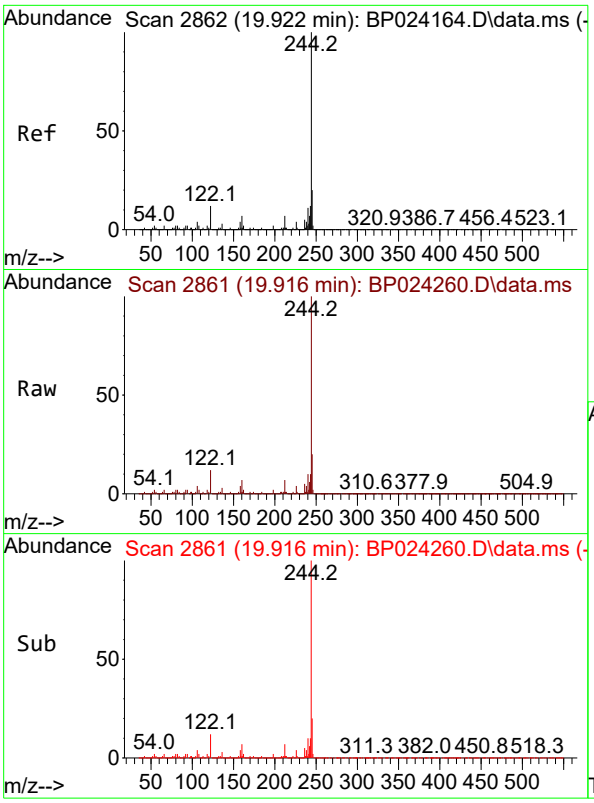


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:240 Resp: 1255527

Ion	Ratio	Lower	Upper
240	100		
120	12.9	9.2	13.8
236	25.5	20.4	30.6



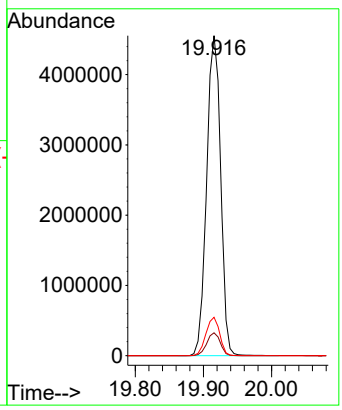


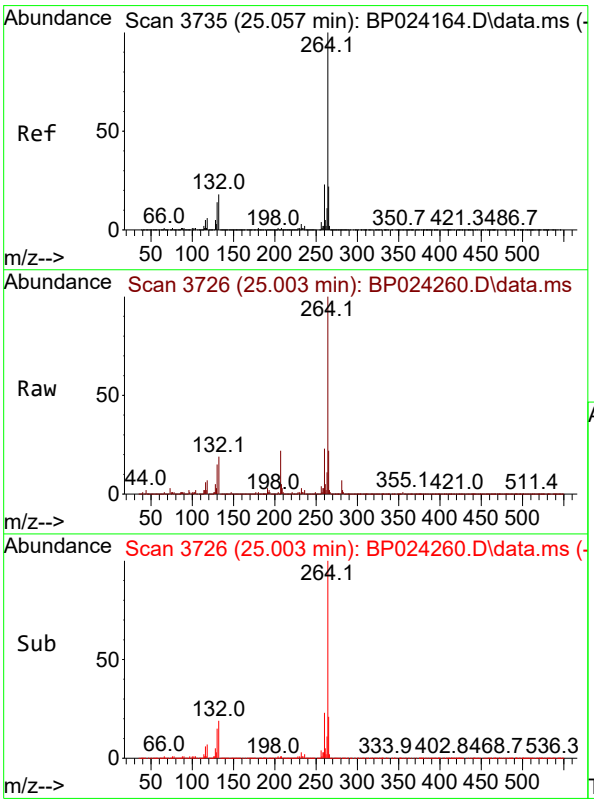
#79
Terphenyl-d14
Concen: 106.989 ng
RT: 19.916 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Instrument :
BNA_P
ClientSampleId :
PB167537BL

Tgt Ion:244 Resp: 6507421

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.7	8.5
122	12.0	9.6	14.4

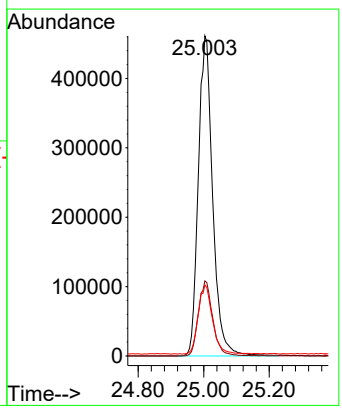




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.003 min Scan# 3726
Delta R.T. -0.006 min
Lab File: BP024260.D
Acq: 11 Apr 2025 10:23

Tgt Ion:264 Resp: 1409207

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.5	27.7
265	22.1	17.7	26.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024261.D
Acq On : 11 Apr 2025 11:04
Operator : RC/JU
Sample : PB167537BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BS

Quant Time: Apr 11 11:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.757	152	252310	20.000	ng		0.01
21) Naphthalene-d8	10.534	136	1001041	20.000	ng		0.00
39) Acenaphthene-d10	14.387	164	619477	20.000	ng		0.00
64) Phenanthrene-d10	17.192	188	1216306	20.000	ng		0.00
76) Chrysene-d12	21.639	240	1332930	20.000	ng		0.00
86) Perylene-d12	25.015	264	1494830	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	2457503	155.478	ng		0.02
7) Phenol-d6	6.946	99	3088087	146.100	ng		0.02
23) Nitrobenzene-d5	8.904	82	1808569	101.935	ng		0.01
42) 2,4,6-Tribromophenol	15.904	330	1304316	167.154	ng		0.00
45) 2-Fluorobiphenyl	13.004	172	3979657	94.727	ng		0.00
79) Terphenyl-d14	19.916	244	6678080	103.419	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.317	88	275740	44.010	ng		96
3) Pyridine	3.705	79	729965	42.618	ng		97
4) n-Nitrosodimethylamine	3.616	42	284386	49.704	ng		99
6) Aniline	7.093	93	756103	39.262	ng		99
8) 2-Chlorophenol	7.328	128	883003	51.719	ng		98
9) Benzaldehyde	6.910	77	381416	37.393	ng		98
10) Phenol	6.969	94	1106401	51.852	ng		99
11) bis(2-Chloroethyl)ether	7.187	93	821599	48.826	ng		98
12) 1,3-Dichlorobenzene	7.652	146	919609	49.948	ng		100
13) 1,4-Dichlorobenzene	7.793	146	928493	49.392	ng		98
14) 1,2-Dichlorobenzene	8.110	146	890037	49.339	ng		99
15) Benzyl Alcohol	7.999	79	699969	52.308	ng		100
16) 2,2'-oxybis(1-Chloropr...	8.275	45	906561	52.787	ng		96
17) 2-Methylphenol	8.199	107	728420	54.439	ng		99
18) Hexachloroethane	8.828	117	335774	50.346	ng		98
19) n-Nitroso-di-n-propyla...	8.557	70	598100	48.775	ng		98
20) 3+4-Methylphenols	8.528	107	988752	53.787	ng		98
22) Acetophenone	8.575	105	1224869	48.398	ng	#	99
24) Nitrobenzene	8.951	77	895136	51.143	ng		100
25) Isophorone	9.475	82	1672734	55.000	ng		100
26) 2-Nitrophenol	9.651	139	452073	54.073	ng		99
27) 2,4-Dimethylphenol	9.716	122	809364	75.286	ng		98
28) bis(2-Chloroethoxy)met...	9.946	93	1078110	50.389	ng		99
29) 2,4-Dichlorophenol	10.187	162	773936	53.217	ng		98
30) 1,2,4-Trichlorobenzene	10.398	180	791203	49.242	ng		98
31) Naphthalene	10.587	128	2549853	48.052	ng		100
32) Benzoic acid	9.869	122	602900	57.503	ng		99
33) 4-Chloroaniline	10.698	127	353588	18.620	ng		99
34) Hexachlorobutadiene	10.869	225	462030	49.964	ng		99
35) Caprolactam	11.487	113	274543	57.601	ng		97
36) 4-Chloro-3-methylphenol	11.828	107	867963	55.324	ng		98
37) 2-Methylnaphthalene	12.198	142	1589529	44.340	ng		99
38) 1-Methylnaphthalene	12.416	142	1699342	48.737	ng		99
40) 1,2,4,5-Tetrachloroben...	12.569	216	852812	47.624	ng		99
41) Hexachlorocyclopentadiene	12.551	237	1234479	191.246	ng		98
43) 2,4,6-Trichlorophenol	12.810	196	611555	53.738	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024261.D
Acq On : 11 Apr 2025 11:04
Operator : RC/JU
Sample : PB167537BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BS

Quant Time: Apr 11 11:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

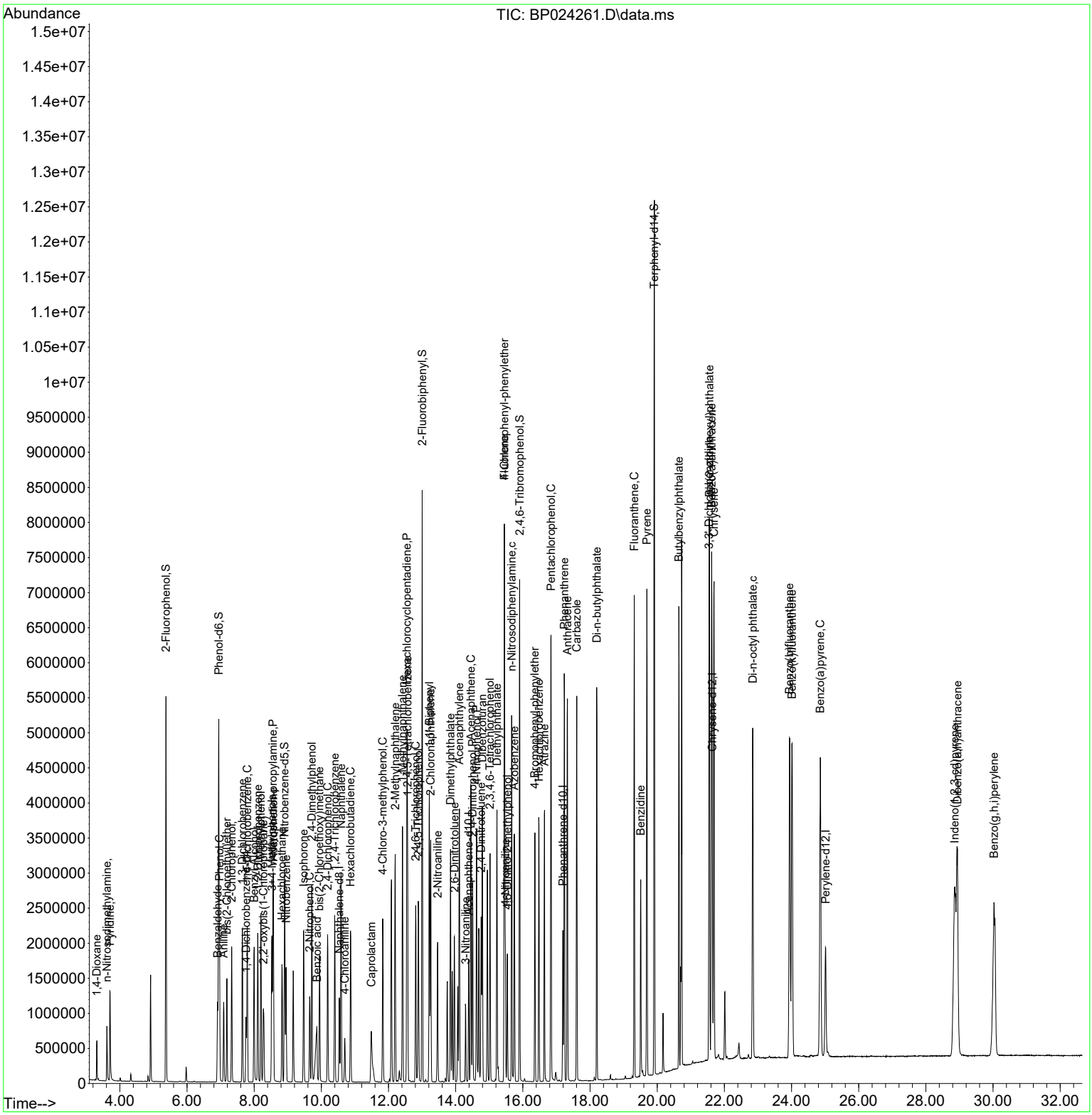
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.887	196	673077	53.930	ng	98
46) 1,1'-Biphenyl	13.216	154	2235200	48.016	ng	99
47) 2-Chloronaphthalene	13.257	162	1707493	48.766	ng	99
48) 2-Nitroaniline	13.463	65	519695	58.030	ng	98
49) Acenaphthylene	14.110	152	2903889	54.810	ng	100
50) Dimethylphthalate	13.845	163	2225271	51.337	ng	100
51) 2,6-Dinitrotoluene	13.963	165	490016	53.729	ng	99
52) Acenaphthene	14.451	154	1650394	48.755	ng	99
53) 3-Nitroaniline	14.298	138	269754	27.385	ng	97
54) 2,4-Dinitrophenol	14.504	184	646648	133.999	ng	95
55) Dibenzofuran	14.792	168	2622316	47.825	ng	98
56) 4-Nitrophenol	14.622	139	1034475	125.684	ng	96
57) 2,4-Dinitrotoluene	14.757	165	715389	59.384	ng	98
58) Fluorene	15.451	166	2154829	50.439	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.022	232	586898	53.225	ng	97
60) Diethylphthalate	15.228	149	2269853	52.585	ng	99
61) 4-Chlorophenyl-phenyle...	15.451	204	1029595	49.137	ng	98
62) 4-Nitroaniline	15.481	138	567626	54.943	ng	99
63) Azobenzene	15.745	77	2066101	50.784	ng	99
65) 4,6-Dinitro-2-methylph...	15.539	198	410813	56.894	ng	100
66) n-Nitrosodiphenylamine	15.669	169	1886274	51.070	ng	100
67) 4-Bromophenyl-phenylether	16.357	248	664537	49.763	ng	99
68) Hexachlorobenzene	16.481	284	796254	50.378	ng	99
69) Atrazine	16.645	200	672316	75.415	ng	99
70) Pentachlorophenol	16.839	266	1170265	114.492	ng	99
71) Phenanthrene	17.233	178	3387175	50.976	ng	100
72) Anthracene	17.328	178	3418770	52.827	ng	99
73) Carbazole	17.604	167	3357130	53.791	ng	99
74) Di-n-butylphthalate	18.198	149	4057764	54.769	ng	100
75) Fluoranthene	19.316	202	4030536	52.374	ng	99
77) Benzidine	19.510	184	1601060	109.861	ng	99
78) Pyrene	19.692	202	4153154	50.118	ng	100
80) Butylbenzylphthalate	20.645	149	1940623	56.788	ng	99
81) Benzo(a)anthracene	21.621	228	4365233	52.675	ng	100
82) 3,3'-Dichlorobenzidine	21.545	252	1067282	38.426	ng	99
83) Chrysene	21.692	228	4032865	50.622	ng	99
84) Bis(2-ethylhexyl)phtha...	21.557	149	2814005	54.573	ng	99
85) Di-n-octyl phthalate	22.845	149	4816817	58.304	ng	100
87) Indeno(1,2,3-cd)pyrene	28.856	276	5522835	52.938	ng	94
88) Benzo(b)fluoranthene	23.939	252	4588615	50.912	ng	98
89) Benzo(k)fluoranthene	24.015	252	4470670	50.709	ng	99
90) Benzo(a)pyrene	24.857	252	4367049	55.721	ng	99
91) Dibenzo(a,h)anthracene	28.939	278	4544623	52.360	ng	99
92) Benzo(g,h,i)perylene	30.027	276	4376784	49.606	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024261.D
Acq On : 11 Apr 2025 11:04
Operator : RC/JU
Sample : PB167537BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167537BS

Quant Time: Apr 11 11:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024265.D
Acq On : 11 Apr 2025 14:19
Operator : RC/JU
Sample : Q1748-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:59:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	198893	20.000	ng	0.00
21) Naphthalene-d8	10.510	136	835760	20.000	ng	-0.02
39) Acenaphthene-d10	14.386	164	566625	20.000	ng	0.00
64) Phenanthrene-d10	17.186	188	1260548	20.000	ng	0.00
76) Chrysene-d12	21.645	240	1426665	20.000	ng	0.00
86) Perylene-d12	25.004	264	871094	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.352	112	1988756	159.614	ng	0.00
7) Phenol-d6	6.922	99	2499529	150.014	ng	0.00
23) Nitrobenzene-d5	8.887	82	1605956	108.416	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	1423364	199.424	ng	0.00
45) 2-Fluorobiphenyl	12.992	172	3666524	95.414	ng	0.00
79) Terphenyl-d14	19.916	244	7270183	105.191	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.305	88	197424	39.973	ng	# 78
3) Pyridine	3.699	79	726093	53.777	ng	97
4) n-Nitrosodimethylamine	3.599	42	207047	45.906	ng	99
6) Aniline	7.075	93	278787	18.365	ng	98
8) 2-Chlorophenol	7.310	128	678421	50.409	ng	99
9) Benzaldehyde	6.887	77	155372	19.323	ng	97
10) Phenol	6.946	94	813258	48.350	ng	99
11) bis(2-Chloroethyl)ether	7.163	93	614434	46.322	ng	96
12) 1,3-Dichlorobenzene	7.628	146	618603	42.623	ng	99
13) 1,4-Dichlorobenzene	7.775	146	634304	42.805	ng	99
14) 1,2-Dichlorobenzene	8.087	146	623687	43.859	ng	99
15) Benzyl Alcohol	7.975	79	420731	39.885	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.257	45	665859	49.184	ng	97
17) 2-Methylphenol	8.181	107	585018	55.464	ng	99
18) Hexachloroethane	8.804	117	222640	42.349	ng	98
19) n-Nitroso-di-n-propyla...	8.534	70	488650	50.552	ng	99
20) 3+4-Methylphenols	8.504	107	814153	56.184	ng	99
22) Acetophenone	8.552	105	988977	46.805	ng	# 99
24) Nitrobenzene	8.928	77	717881	49.127	ng	99
25) Isophorone	9.446	82	1421417	55.979	ng	99
26) 2-Nitrophenol	9.634	139	360276	51.615	ng	99
27) 2,4-Dimethylphenol	9.698	122	680718	75.842	ng	98
28) bis(2-Chloroethoxy)met...	9.928	93	797057	44.620	ng	99
29) 2,4-Dichlorophenol	10.169	162	663319	54.631	ng	100
30) 1,2,4-Trichlorobenzene	10.381	180	596034	44.431	ng	99
31) Naphthalene	10.563	128	2020428	45.605	ng	100
32) Benzoic acid	9.834	122	518295m	59.210	ng	
33) 4-Chloroaniline	10.681	127	137875	8.696	ng	99
34) Hexachlorobutadiene	10.851	225	329257	42.648	ng	99
35) Caprolactam	11.463	113	254562	63.971	ng	97
36) 4-Chloro-3-methylphenol	11.810	107	812838	62.057	ng	99
37) 2-Methylnaphthalene	12.175	142	1336378	44.651	ng	99
38) 1-Methylnaphthalene	12.404	142	1421267	48.823	ng	99
40) 1,2,4,5-Tetrachloroben...	12.551	216	701326	42.817	ng	99
41) Hexachlorocyclopentadiene	12.528	237	910279	154.174	ng	98
43) 2,4,6-Trichlorophenol	12.798	196	547883	52.633	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024265.D
Acq On : 11 Apr 2025 14:19
Operator : RC/JU
Sample : Q1748-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:59:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.875	196	649678	56.911	ng	99
46) 1,1'-Biphenyl	13.198	154	1965684	46.165	ng	99
47) 2-Chloronaphthalene	13.239	162	1517908	47.395	ng	99
48) 2-Nitroaniline	13.451	65	482628	58.918	ng	96
49) Acenaphthylene	14.098	152	2623879	54.145	ng	100
50) Dimethylphthalate	13.834	163	2173322	54.816	ng	100
51) 2,6-Dinitrotoluene	13.963	165	486052	58.265	ng	98
52) Acenaphthene	14.451	154	1539419	49.719	ng	99
53) 3-Nitroaniline	14.298	138	153208	17.004	ng	99
54) 2,4-Dinitrophenol	14.498	184	656992	148.841	ng	94
55) Dibenzofuran	14.786	168	2463534	49.120	ng	98
56) 4-Nitrophenol	14.622	139	1037606	137.823	ng	96
57) 2,4-Dinitrotoluene	14.751	165	723204	65.632	ng	97
58) Fluorene	15.445	166	2083618	53.321	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.028	232	584528	57.955	ng	98
60) Diethylphthalate	15.222	149	2253741	57.082	ng	99
61) 4-Chlorophenyl-phenyle...	15.457	204	979569	51.110	ng	97
62) 4-Nitroaniline	15.475	138	396219	41.929	ng	99
63) Azobenzene	15.751	77	1987173	53.399	ng	98
65) 4,6-Dinitro-2-methylph...	15.528	198	418302	55.897	ng	95
66) n-Nitrosodiphenylamine	15.669	169	943117	24.638	ng	100
67) 4-Bromophenyl-phenylether	16.363	248	659062	47.621	ng	98
68) Hexachlorobenzene	16.480	284	807518	49.297	ng	99
69) Atrazine	16.645	200	215386	23.312	ng	99
70) Pentachlorophenol	16.833	266	1215004	114.697	ng	99
71) Phenanthrene	17.239	178	3497744	50.793	ng	99
72) Anthracene	17.333	178	3514990	52.408	ng	100
73) Carbazole	17.610	167	1426762	22.059	ng	100
74) Di-n-butylphthalate	18.210	149	4206804	54.788	ng	100
75) Fluoranthene	19.327	202	4297131	53.879	ng	99
77) Benzidine	19.539	184	9013m	0.578	ng	
78) Pyrene	19.704	202	4378542	49.366	ng	99
80) Butylbenzylphthalate	20.645	149	2050522	56.062	ng	98
81) Benzo(a)anthracene	21.621	228	4632255	52.224	ng	100
82) 3,3'-Dichlorobenzidine	21.539	252	53712	1.807	ng	98
83) Chrysene	21.692	228	4265411	50.023	ng	99
84) Bis(2-ethylhexyl)phtha...	21.557	149	2941938	53.306	ng	100
85) Di-n-octyl phthalate	22.833	149	4973283	56.242	ng	100
87) Indeno(1,2,3-cd)pyrene	28.815	276	5522504	90.837	ng	99
88) Benzo(b)fluoranthene	23.927	252	4834705	92.052	ng	98
89) Benzo(k)fluoranthene	24.015	252	4709378	91.665	ng	100
90) Benzo(a)pyrene	24.851	252	4188367	91.707	ng	99
91) Dibenzo(a,h)anthracene	28.909	278	4800304	94.907	ng	99
92) Benzo(g,h,i)perylene	30.009	276	4314856	83.921	ng	100

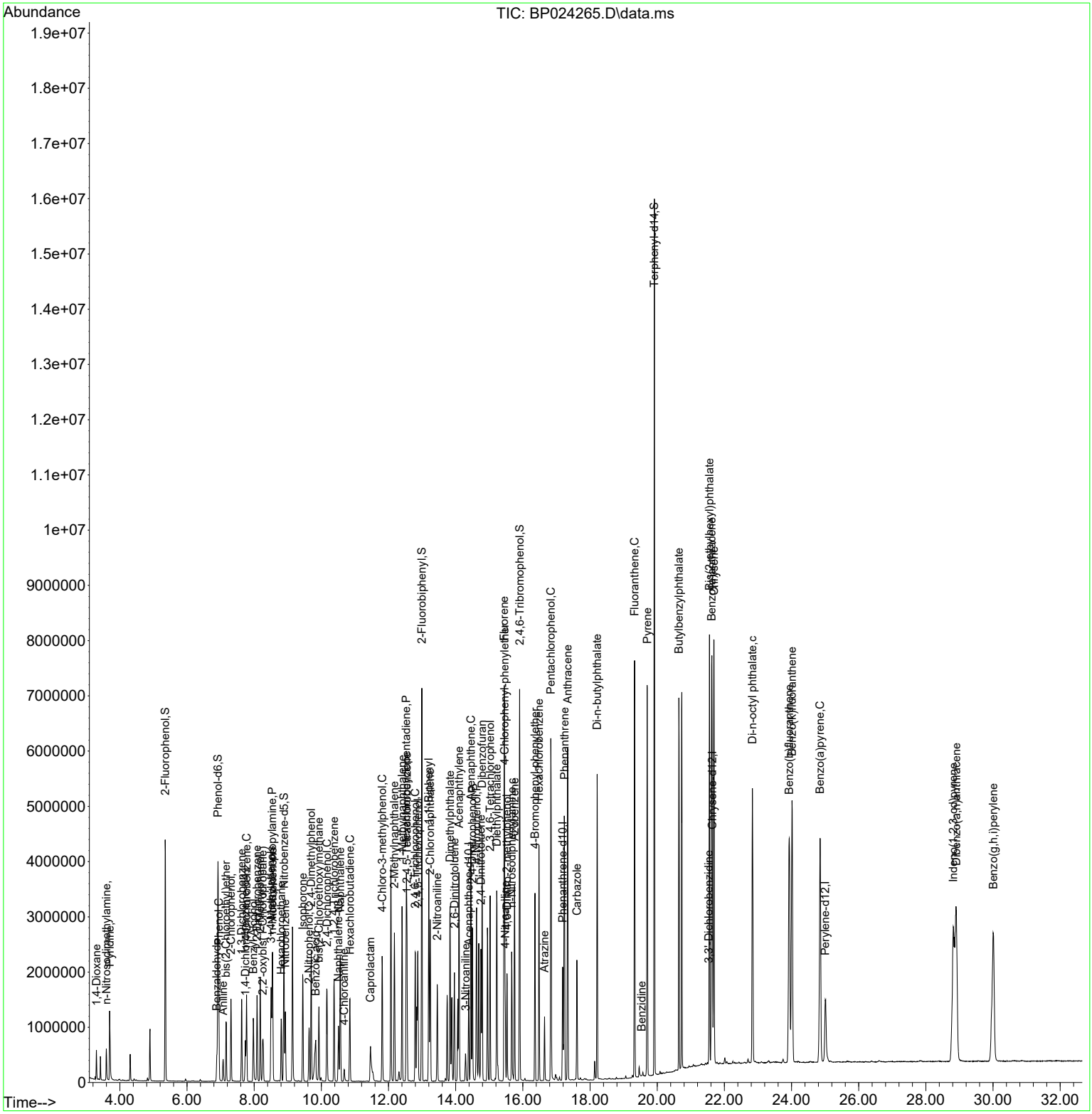
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024265.D
Acq On : 11 Apr 2025 14:19
Operator : RC/JU
Sample : Q1748-04MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 11 14:59:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024266.D
Acq On : 11 Apr 2025 15:00
Operator : RC/JU
Sample : Q1748-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.740	152	263233	20.000	ng	0.00
21) Naphthalene-d8	10.516	136	1024669	20.000	ng	-0.01
39) Acenaphthene-d10	14.375	164	625891	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1269585	20.000	ng	-0.02
76) Chrysene-d12	21.622	240	1347511	20.000	ng	-0.02
86) Perylene-d12	24.980	264	604991	20.000	ng	#-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	2378846	144.257	ng	0.00
7) Phenol-d6	6.928	99	2868568	130.082	ng	0.00
23) Nitrobenzene-d5	8.887	82	1876741	103.338	ng	0.00
42) 2,4,6-Tribromophenol	15.887	330	1412322	179.140	ng	-0.01
45) 2-Fluorobiphenyl	12.987	172	3987446	93.940	ng	-0.01
79) Terphenyl-d14	19.898	244	6970849	106.785	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.311	88	250645	38.345	ng	# 76
3) Pyridine	3.705	79	766858	42.914	ng	97
4) n-Nitrosodimethylamine	3.605	42	251770	42.178	ng	100
6) Aniline	7.081	93	237669	11.829	ng	98
8) 2-Chlorophenol	7.316	128	815068	45.759	ng	99
9) Benzaldehyde	6.893	77	215811	20.279	ng	98
10) Phenol	6.952	94	939518	42.204	ng	99
11) bis(2-Chloroethyl)ether	7.169	93	747961	42.606	ng	99
12) 1,3-Dichlorobenzene	7.628	146	776529	40.427	ng	100
13) 1,4-Dichlorobenzene	7.775	146	791991	40.383	ng	99
14) 1,2-Dichlorobenzene	8.087	146	774610	41.158	ng	99
15) Benzyl Alcohol	7.981	79	451523	32.342	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.263	45	816372	45.563	ng	97
17) 2-Methylphenol	8.181	107	677807	48.555	ng	99
18) Hexachloroethane	8.810	117	283685	40.771	ng	98
19) n-Nitroso-di-n-propyla...	8.540	70	563783	44.069	ng	99
20) 3+4-Methylphenols	8.505	107	925546	48.259	ng	98
22) Acetophenone	8.552	105	1159395	44.754	ng	99
24) Nitrobenzene	8.928	77	832032	46.441	ng	99
25) Isophorone	9.452	82	1593180	51.176	ng	99
26) 2-Nitrophenol	9.634	139	421515	49.255	ng	99
27) 2,4-Dimethylphenol	9.699	122	774521	70.384	ng	98
28) bis(2-Chloroethoxy)met...	9.928	93	923700	42.176	ng	100
29) 2,4-Dichlorophenol	10.169	162	741080	49.783	ng	98
30) 1,2,4-Trichlorobenzene	10.375	180	719976	43.776	ng	99
31) Naphthalene	10.563	128	2358188	43.416	ng	100
32) Benzoic acid	9.840	122	540827	50.394	ng	97
33) 4-Chloroaniline	10.681	127	107792	5.545	ng	97
34) Hexachlorobutadiene	10.851	225	411310	43.454	ng	98
35) Caprolactam	11.469	113	251034	51.454	ng	99
36) 4-Chloro-3-methylphenol	11.810	107	858833	53.480	ng	99
37) 2-Methylnaphthalene	12.181	142	1509811	41.145	ng	100
38) 1-Methylnaphthalene	12.398	142	1590749	44.570	ng	99
40) 1,2,4,5-Tetrachloroben...	12.546	216	801448	44.297	ng	98
41) Hexachlorocyclopentadiene	12.528	237	1101971	168.968	ng	98
43) 2,4,6-Trichlorophenol	12.793	196	590161	51.326	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024266.D
Acq On : 11 Apr 2025 15:00
Operator : RC/JU
Sample : Q1748-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.869	196	671811	53.277	ng	98
46) 1,1'-Biphenyl	13.198	154	2147562	45.661	ng	100
47) 2-Chloronaphthalene	13.240	162	1635181	46.222	ng	99
48) 2-Nitroaniline	13.445	65	476163	52.624	ng	98
49) Acenaphthylene	14.092	152	2754375	51.456	ng	100
50) Dimethylphthalate	13.834	163	2208995	50.440	ng	99
51) 2,6-Dinitrotoluene	13.945	165	492069	53.401	ng	99
52) Acenaphthene	14.440	154	1612157	47.138	ng	99
53) 3-Nitroaniline	14.281	138	141326	14.200	ng	95
54) 2,4-Dinitrophenol	14.492	184	664698	136.328	ng	96
55) Dibenzofuran	14.781	168	2534651	45.752	ng	97
56) 4-Nitrophenol	14.610	139	993078	119.418	ng	98
57) 2,4-Dinitrotoluene	14.751	165	715143	58.755	ng	98
58) Fluorene	15.439	166	2100315	48.659	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.016	232	588377	52.813	ng	98
60) Diethylphthalate	15.216	149	2190498	50.227	ng	100
61) 4-Chlorophenyl-phenyle...	15.434	204	1013792	47.887	ng	97
62) 4-Nitroaniline	15.463	138	363825	34.855	ng	100
63) Azobenzene	15.734	77	1979228	48.150	ng	99
65) 4,6-Dinitro-2-methylph...	15.528	198	416210	55.222	ng	95
66) n-Nitrosodiphenylamine	15.651	169	945302	24.520	ng	99
67) 4-Bromophenyl-phenylether	16.345	248	663399	47.593	ng	99
68) Hexachlorobenzene	16.469	284	787040	47.705	ng	99
69) Atrazine	16.628	200	114541	12.309	ng	99
70) Pentachlorophenol	16.816	266	1182455	110.830	ng	99
71) Phenanthrene	17.216	178	3402535	49.058	ng	99
72) Anthracene	17.310	178	3403799	50.389	ng	99
73) Carbazole	17.592	167	1148669	17.633	ng	100
74) Di-n-butylphthalate	18.180	149	3940573	50.956	ng	100
75) Fluoranthene	19.298	202	4021865	50.069	ng	99
77) Benzidine	19.510	184	31788m	2.158	ng	
78) Pyrene	19.680	202	4077965	48.678	ng	100
80) Butylbenzylphthalate	20.633	149	1859078	53.813	ng	98
81) Benzo(a)anthracene	21.604	228	4178675	49.878	ng	100
82) 3,3'-Dichlorobenzidine	21.527	252	93478	3.329	ng	97
83) Chrysene	21.674	228	3955205	49.110	ng	99
84) Bis(2-ethylhexyl)phtha...	21.539	149	2655288	50.938	ng	100
85) Di-n-octyl phthalate	22.827	149	4511896	54.022	ng	100
87) Indeno(1,2,3-cd)pyrene	28.792	276	4539854m	107.519	ng	
88) Benzo(b)fluoranthene	23.915	252	4459795	122.262	ng	99
89) Benzo(k)fluoranthene	23.992	252	4191765	117.477	ng	99
90) Benzo(a)pyrene	24.833	252	3444003	108.577	ng	99
91) Dibenzo(a,h)anthracene	28.892	278	4286090	122.013	ng	99
92) Benzo(g,h,i)perylene	29.986	276	3479023	97.427	ng	100

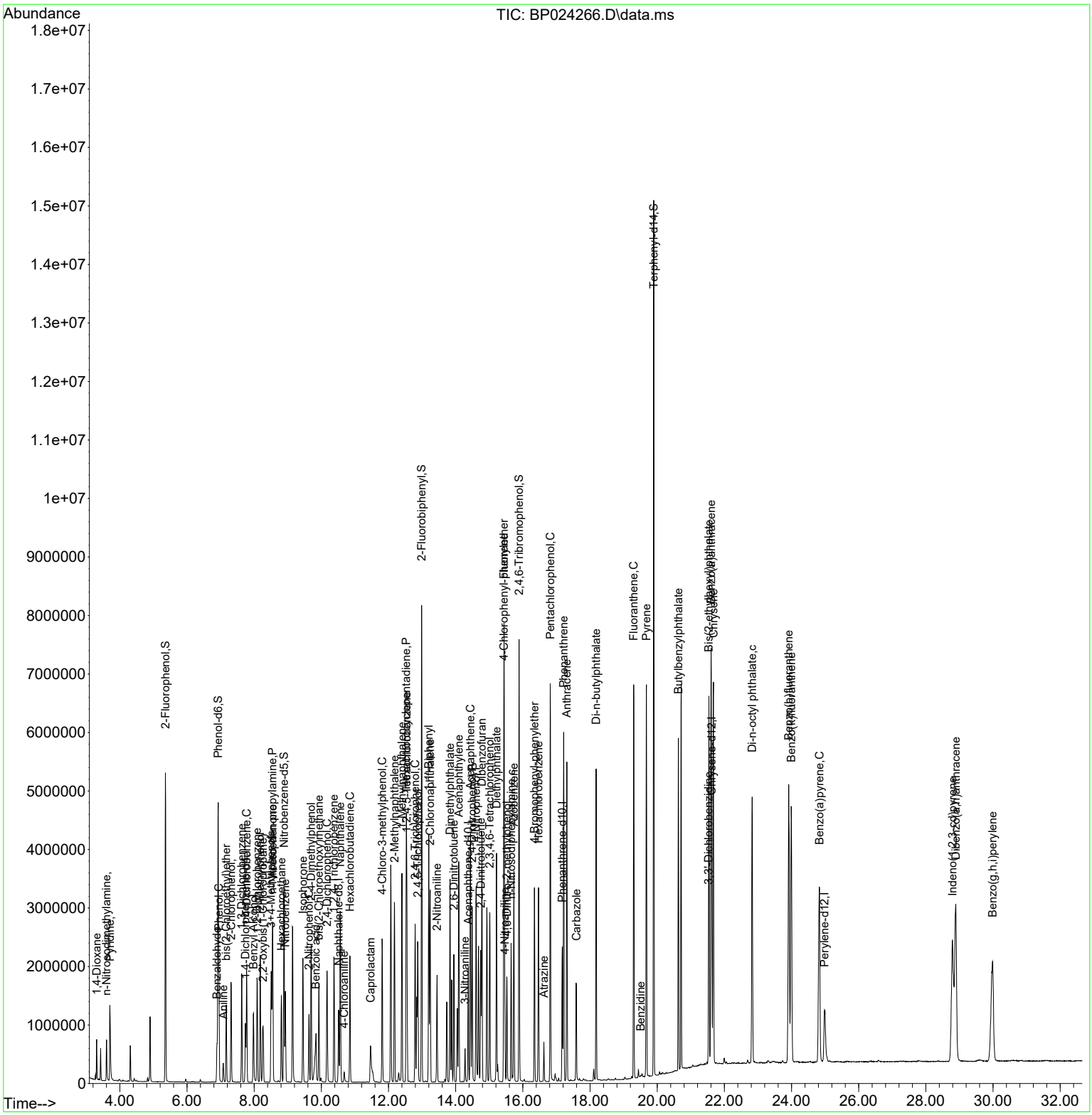
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP041125\
Data File : BP024266.D
Acq On : 11 Apr 2025 15:00
Operator : RC/JU
Sample : Q1748-04MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 10 11:43:37 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
IB-1.5-WCMSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/14/2025
Supervised By :Jagrut Upadhyay 04/14/2025



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

Manual Integration Report

Sequence:	BP031225	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024161.D	Benzaldehyde	anahy	3/13/2025 11:10:33 AM	Jagrut	3/13/2025 11:45:04 AM	Peak Integrated by Software
SSTDICC050	BP024165.D	Pyridine	anahy	3/13/2025 11:11:20 AM	Jagrut	3/13/2025 11:45:07 AM	Peak Integrated by Software
SSTDICC060	BP024166.D	Indeno(1,2,3-cd)pyrene	anahy	3/13/2025 11:38:58 AM	Jagrut	3/13/2025 11:45:09 AM	Peak Integrated by Software
SSTDICC060	BP024166.D	Pyridine	anahy	3/13/2025 11:38:58 AM	Jagrut	3/13/2025 11:45:09 AM	Peak Integrated by Software
SSTDICC080	BP024167.D	Pyridine	anahy	3/13/2025 11:39:57 AM	Jagrut	3/13/2025 11:45:11 AM	Peak Integrated by Software
SSTDICV040	BP024168.D	Benzo(g,h,i)perylene	anahy	3/13/2025 11:40:49 AM	Jagrut	3/13/2025 11:45:14 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bp041125	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP024259.D	Benzoic acid	Rahul	4/14/2025 11:09:26 AM	Jagrut	4/14/2025 3:52:48 PM	Peak Integrated by Software
Q1748-04MS	BP024265.D	Benzidine	Rahul	4/14/2025 11:09:30 AM	Jagrut	4/14/2025 3:52:50 PM	Peak Integrated by Software
Q1748-04MS	BP024265.D	Benzoic acid	Rahul	4/14/2025 11:09:30 AM	Jagrut	4/14/2025 3:52:50 PM	Peak Integrated by Software
Q1748-04MSD	BP024266.D	Benzidine	Rahul	4/14/2025 11:09:34 AM	Jagrut	4/14/2025 3:52:53 PM	Peak Integrated by Software
Q1748-04MSD	BP024266.D	Indeno(1,2,3-cd)pyrene	Rahul	4/14/2025 11:09:34 AM	Jagrut	4/14/2025 3:52:53 PM	Peak Integrated by Software

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP031225

Review By	anahy	Review On	3/13/2025 11:41:15 AM		
Supervise By	Jagrut	Supervise On	3/17/2025 4:44:19 PM		
SubDirectory	BP031225	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024159.D	12 Mar 2025 15:36	RC/JU	Ok
2	SSTDICC2.5	BP024160.D	12 Mar 2025 16:17	RC/JU	Ok
3	SSTDICC005	BP024161.D	12 Mar 2025 16:57	RC/JU	Ok,M
4	SSTDICC010	BP024162.D	12 Mar 2025 17:38	RC/JU	Ok
5	SSTDICC020	BP024163.D	12 Mar 2025 18:19	RC/JU	Ok
6	SSTDICCC040	BP024164.D	12 Mar 2025 19:00	RC/JU	Ok
7	SSTDICC050	BP024165.D	12 Mar 2025 19:41	RC/JU	Ok,M
8	SSTDICC060	BP024166.D	12 Mar 2025 20:21	RC/JU	Ok,M
9	SSTDICC080	BP024167.D	12 Mar 2025 21:02	RC/JU	Ok,M
10	SSTDICV040	BP024168.D	12 Mar 2025 21:43	RC/JU	Ok,M
11	PB167078BL	BP024169.D	12 Mar 2025 22:24	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041125

Review By	Rahul	Review On	4/14/2025 11:10:32 AM				
Supervise By	Jagrut	Supervise On	4/14/2025 3:53:13 PM				
SubDirectory	BP041125	HP Acquire Method	BNA_P		HP Processing Method	bp031225	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024258.D	11 Apr 2025 09:02	RC/JU	Ok
2	SSTDCCC040	BP024259.D	11 Apr 2025 09:43	RC/JU	Ok,M
3	PB167537BL	BP024260.D	11 Apr 2025 10:23	RC/JU	Ok
4	PB167537BS	BP024261.D	11 Apr 2025 11:04	RC/JU	Ok
5	PB167517TB	BP024262.D	11 Apr 2025 11:45	RC/JU	Ok
6	PB167518BS	BP024263.D	11 Apr 2025 12:25	RC/JU	Ok
7	Q1749-04	BP024264.D	11 Apr 2025 13:38	RC/JU	Ok
8	Q1748-04MS	BP024265.D	11 Apr 2025 14:19	RC/JU	Ok,M
9	Q1748-04MSD	BP024266.D	11 Apr 2025 15:00	RC/JU	Ok,M
10	Q1746-02	BP024267.D	11 Apr 2025 15:40	RC/JU	Ok
11	Q1746-04	BP024268.D	11 Apr 2025 16:21	RC/JU	Ok
12	Q1744-02	BP024269.D	11 Apr 2025 17:02	RC/JU	Ok
13	Q1744-04	BP024270.D	11 Apr 2025 17:42	RC/JU	Ok
14	Q1752-02	BP024271.D	11 Apr 2025 18:23	RC/JU	Ok
15	Q1752-04	BP024272.D	11 Apr 2025 19:04	RC/JU	Ok
16	Q1752-06	BP024273.D	11 Apr 2025 19:45	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP031225

Review By	anahy	Review On	3/13/2025 11:41:15 AM		
Supervise By	Jagrut	Supervise On	3/17/2025 4:44:19 PM		
SubDirectory	BP031225	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024159.D	12 Mar 2025 15:36		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024160.D	12 Mar 2025 16:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024161.D	12 Mar 2025 16:57	Compound #32,54,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024162.D	12 Mar 2025 17:38		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BP024163.D	12 Mar 2025 18:19		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BP024164.D	12 Mar 2025 19:00	This calibration is good for 8270E and 8270E DOD methods	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BP024165.D	12 Mar 2025 19:41		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BP024166.D	12 Mar 2025 20:21	Compound #69 Removed from 60PPM	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP024167.D	12 Mar 2025 21:02	Compound #32,54,69 Removed from 80PPM	RC/JU	Ok,M
10	SSTDICV040	ICVBP031225	BP024168.D	12 Mar 2025 21:43		RC/JU	Ok,M
11	PB167078BL	PB167078BL	BP024169.D	12 Mar 2025 22:24		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP041125

Review By	Rahul	Review On	4/14/2025 11:10:32 AM		
Supervise By	Jagrut	Supervise On	4/14/2025 3:53:13 PM		
SubDirectory	BP041125	HP Acquire Method	BNA_P	HP Processing Method	bp031225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12658,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024258.D	11 Apr 2025 09:02		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024259.D	11 Apr 2025 09:43	CCC fail high side for com. #32 and #77	RC/JU	Ok,M
3	PB167537BL	PB167537BL	BP024260.D	11 Apr 2025 10:23		RC/JU	Ok
4	PB167537BS	PB167537BS	BP024261.D	11 Apr 2025 11:04		RC/JU	Ok
5	PB167517TB	PB167517TB	BP024262.D	11 Apr 2025 11:45		RC/JU	Ok
6	PB167518BS	PB167518BS	BP024263.D	11 Apr 2025 12:25		RC/JU	Ok
7	Q1749-04	TP-14	BP024264.D	11 Apr 2025 13:38		RC/JU	Ok
8	Q1748-04MS	IB-1.5-WCMS	BP024265.D	11 Apr 2025 14:19		RC/JU	Ok,M
9	Q1748-04MSD	IB-1.5-WCMSD	BP024266.D	11 Apr 2025 15:00		RC/JU	Ok,M
10	Q1746-02	B-149-SB01	BP024267.D	11 Apr 2025 15:40		RC/JU	Ok
11	Q1746-04	B-149-SB02	BP024268.D	11 Apr 2025 16:21		RC/JU	Ok
12	Q1744-02	B-158-SB01	BP024269.D	11 Apr 2025 17:02		RC/JU	Ok
13	Q1744-04	B-158-SB02	BP024270.D	11 Apr 2025 17:42		RC/JU	Ok
14	Q1752-02	TP-1	BP024271.D	11 Apr 2025 18:23		RC/JU	Ok
15	Q1752-04	TP-2	BP024272.D	11 Apr 2025 19:04		RC/JU	Ok
16	Q1752-06	TP-4	BP024273.D	11 Apr 2025 19:45		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

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 : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JB

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JB

Supervisor By : IZ

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	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JB

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JB 104 Room	9129. 154
	Preparation Group	Analysis Group

04/09/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

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
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167517

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
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

Q1744

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1748 **WorkList ID :** 188805 **Department :** TCLP Extraction **Date :** 04-08-2025 12:17:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1743-04	TP-16	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311
Q1744-02	B-158-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1744-04	B-158-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1745-04	IB-6A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1745-12	IB-6.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1746-02	B-149-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1746-04	B-149-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311
Q1748-04	IB-1.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1748-08	IB-2A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1749-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/07/2025	1311
Q1752-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-04	TP-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-06	TP-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-08	TP-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-04	TP-1-CONCRETE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311

404 of 1167

Date/Time 04/08/25 16:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/08/25 18:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167537

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: EH

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 04/09/2025

Extraction Start Time : 13:25

Extraction End Date : 04/09/2025

Extraction End Time : 18:25

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	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
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	E3926
Baked Na2SO4	N/A	EP2599
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.p H Adjusted <2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25	RP (Ext 1 cab)	JG / SVOC
18:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167537

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/09/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167517TB	PB167517TB	TCLP BNA	100	6	ritesh	rajesh	1			SEP-01
PB167537BL	PB167537BL	TCLP BNA	1000	6	ritesh	rajesh	1			2
PB167537BS	PB167537BS	TCLP BNA	1000	6	ritesh	rajesh	1			3
PB167537TB	PB167537TB	TCLP BNA	100	6	ritesh	rajesh	1			4
Q1740-04	TP-20	TCLP BNA	100	6	ritesh	rajesh	1	A		5
Q1743-04	TP-16	TCLP BNA	100	6	ritesh	rajesh	1	A		6
Q1744-02	B-158-SB01	TCLP BNA	100	6	ritesh	rajesh	1	A		7
Q1744-04	B-158-SB02	TCLP BNA	100	6	ritesh	rajesh	1	A		8
Q1745-04	IB-6A-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		9
Q1745-12	IB-6.5-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		10
Q1746-02	B-149-SB01	TCLP BNA	100	6	ritesh	rajesh	1	A		11
Q1746-04	B-149-SB02	TCLP BNA	100	6	ritesh	rajesh	1	A		12
Q1748-04	IB-1.5-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		13
Q1748-04MS	IB-1.5-WCMS	TCLP BNA	100	6	ritesh	rajesh	1	A		14
Q1748-04MSD	IB-1.5-WCMSD	TCLP BNA	100	6	ritesh	rajesh	1	A		15
Q1748-08	IB-2A-WC	TCLP BNA	100	6	ritesh	rajesh	1	A		16
Q1749-04	TP-14	TCLP BNA	100	6	ritesh	rajesh	1	A		SEP-01
Q1752-02	TP-1	TCLP BNA	100	6	ritesh	rajesh	1	A		2
Q1752-04	TP-2	TCLP BNA	100	6	ritesh	rajesh	1	A		3
Q1752-06	TP-3	TCLP BNA	100	6	ritesh	rajesh	1	A		4
Q1752-08	TP-4	TCLP BNA	100	6	ritesh	rajesh	1	A		5
Q1753-04	WC-1	TCLP BNA	100	6	ritesh	rajesh	1	A		6
Q1753-08	WC-2	TCLP BNA	100	6	ritesh	rajesh	1	A		7
Q1754-02	TP-1	TCLP BNA	100	6	ritesh	rajesh	1	A		8
Q1754-04	TP-1-CONCRETE	TCLP BNA	100	6	ritesh	rajesh	1	A		9

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167467

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
PB167467TB	LEB467	18	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q1712-04	Z-05A	01	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1712-08	TT-7	02	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1719-01	TP-3-1	03	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1719-02	TP-3-2	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1719-03	TP-3-3	05	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-04	TP-3-4	06	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1719-05	TP-3-5	07	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-06	TP-3-6	08	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1719-07	TP-3-7	09	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-08	TP-3-8	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-09	TP-3-9	11	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-2
Q1719-10	TP-3-10	12	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1719-11	TP-3-11	13	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1719-12	TP-3-12	14	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1732-04	TT-8	15	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q1737-02	RT3069	16	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1740-04	TP-20	17	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2

04/07/25
11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167488

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
PB167488TB	LEB488	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.5	N/A

04/07/25
12:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

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
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

04/09/25

12:40

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

LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP BNA	8270E		04/09/25	04/11/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1744 **Order ID:** Q1744

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1744
Lab Sample ID:	PB167517TB	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
PL095157.D	1	04/09/25 12:50	04/09/25 22:10	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.8		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.4		30 (77) - 150 (126)	97%	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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	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
PL095158.D	1	04/09/25 12:50	04/09/25 22:24	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.8		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		30 (77) - 150 (126)	97%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	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
PL095159.D	1	04/09/25 12:50	04/09/25 22:38	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.037	U	0.037	0.50	ug/L
76-44-8	Heptachlor	0.027	U	0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	0.096	U	0.096	0.50	ug/L
72-20-8	Endrin	0.032	U	0.032	0.50	ug/L
72-43-5	Methoxychlor	0.11	U	0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.6		30 (43) - 150 (140)	118%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.4		30 (77) - 150 (126)	97%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1744

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-PL094566.D	PIBLK-PL094566.D	Decachlorobiphenyl	1	20	22.7	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.0	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (77)	150 (126)
I.BLK-PL095137.D	PIBLK-PL095137.D	Decachlorobiphenyl	1	20	20.9	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.1	96		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.8	84		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
Q1739-02MS	WC-LIQUID-20250404MS	Decachlorobiphenyl	1	20	17.4	87		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	12.5	62		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	12.8	64		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	14.0	70		30 (77)	150 (126)
Q1739-02MSD	WC-LIQUID-20250404MSD	Decachlorobiphenyl	1	20	16.4	82		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	12.3	61		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	12.9	64		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	13.7	69		30 (77)	150 (126)
I.BLK-PL095147.D	PIBLK-PL095147.D	Decachlorobiphenyl	1	20	18.8	94		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.1	90		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.8	79		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.1	95		30 (77)	150 (126)
PB167535BL	PB167535BL	Decachlorobiphenyl	1	20	20.9	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.3	97		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.5	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (77)	150 (126)
PB167517TB	PB167517TB	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.4	92		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.7	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.4	97		30 (77)	150 (126)
Q1744-02	B-158-SB01	Decachlorobiphenyl	1	20	22.8	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	17.9	89		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.6	108		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.3	97		30 (77)	150 (126)
Q1744-04	B-158-SB02	Decachlorobiphenyl	1	20	23.6	118		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	17.6	88		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.0	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.4	97		30 (77)	150 (126)
I.BLK-PL095162.D	PIBLK-PL095162.D	Decachlorobiphenyl	1	20	22.4	112		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.1	96		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.0	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (77)	150 (126)
I.BLK-PL095202.D	PIBLK-PL095202.D	Decachlorobiphenyl	1	20	22.6	113		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.: Q1744

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-PL095202.D	PIBLK-PL095202.D	Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.1	100		30 (77)	150 (126)
I.BLK-PL095224.D	PIBLK-PL095224.D	Decachlorobiphenyl	1	20	23.9	120		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	22.7	114		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.3	111		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (77)	150 (126)
PB167535BS	PB167535BS	Decachlorobiphenyl	1	20	19.0	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	16.6	83		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.4	77		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	15.3	77		30 (77)	150 (126)
I.BLK-PL095235.D	PIBLK-PL095235.D	Decachlorobiphenyl	1	20	20.9	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	23.8	119		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	15.2	76		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.7	103		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL095145.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:	**WC-LIQUID-20250404MS**											
Q1739-02MS	gamma-BHC (Lindane)	5	0	3.10	ug/L	62				30 (60)	150 (152)	
	Heptachlor	5	0	2.90	ug/L	58				30 (56)	150 (147)	
	Heptachlor epoxide	5	0	3.00	ug/L	60				30 (77)	150 (143)	
	Endrin	5	0	3.40	ug/L	68				30 (76)	150 (144)	
	Methoxychlor	5	0	3.40	ug/L	68				30 (70)	150 (142)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **DataFile :** PL095146.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:	**WC-LIQUID-20250404MSD**											
Q1739-02MSD	gamma-BHC (Lindane)	5	0	3.10	ug/L	62		0		30 (60)	150 (152)	20 (20)
	Heptachlor	5	0	2.80	ug/L	56		4		30 (56)	150 (147)	20 (20)
	Heptachlor epoxide	5	0	2.90	ug/L	58		3		30 (77)	150 (143)	20 (20)
	Endrin	5	0	3.30	ug/L	66		3		30 (76)	150 (144)	20 (20)
	Methoxychlor	5	0	3.40	ug/L	68		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.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8081B **Datafile :** PL095232.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167535BS	gamma-BHC (Lindane)	0.5	0.46	ug/L	92				40 (82)	140 (129)	
	Heptachlor	0.5	0.50	ug/L	100				40 (79)	140 (127)	
	Heptachlor epoxide	0.5	0.49	ug/L	98				40 (81)	140 (124)	
	Endrin	0.5	0.52	ug/L	105				40 (81)	140 (128)	
	Methoxychlor	0.5	0.52	ug/L	104				40 (78)	140 (108)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167535BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: PB167535BL Lab File ID: PL095154.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 04/09/2025

Date Analyzed (1): 04/09/2025 Date Analyzed (2): 04/09/2025

Time Analyzed (1): 21:29 Time Analyzed (2): 21:29

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

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
WC-LIQUID-20250404MS	Q1739-02MS	PL095145.D	04/09/2025	04/09/2025
WC-LIQUID-20250404MSD	Q1739-02MSD	PL095146.D	04/09/2025	04/09/2025
PB167517TB	PB167517TB	PL095157.D	04/09/2025	04/09/2025
B-158-SB01	Q1744-02	PL095158.D	04/09/2025	04/09/2025
B-158-SB02	Q1744-04	PL095159.D	04/09/2025	04/09/2025
PB167535BS	PB167535BS	PL095232.D	04/15/2025	04/15/2025

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 2025	Date Received:	
Client Sample ID:	PB167535BL	SDG No.:	Q1744
Lab Sample ID:	PB167535BL	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
PL095154.D	1	04/09/25 12:50	04/09/25 21:29	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	104%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.2		30 (77) - 150 (126)	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

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:	03/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/11/25
Client Sample ID:	PIBLK-PL094566.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PL094566.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
PL094566.D	1		03/11/25	PL031125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	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
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PL095137.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PL095137.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
PL095137.D	1		04/09/25	pl040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (126)	102%	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:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PL095147.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PL095147.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
PL095147.D	1		04/09/25	pl040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.8		30 (43) - 150 (140)	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		30 (77) - 150 (126)	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:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PL095162.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PL095162.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
PL095162.D	1		04/09/25	pl040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.4		30 (43) - 150 (140)	112%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.1		30 (77) - 150 (126)	100%	SPK: 20

Comments:

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MDL = Method Detection Limit
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = 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:	04/14/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/14/25
Client Sample ID:	PIBLK-PL095202.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PL095202.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
PL095202.D	1		04/14/25	PL041425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.6		30 (43) - 150 (140)	113%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

Comments:

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J = Estimated Value
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/15/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/15/25
Client Sample ID:	PIBLK-PL095224.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PL095224.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
PL095224.D	1		04/15/25	Pl041525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.9		30 (43) - 150 (140)	120%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		30 (77) - 150 (126)	114%	SPK: 20

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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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:	04/15/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/15/25
Client Sample ID:	PIBLK-PL095235.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PL095235.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
PL095235.D	1		04/15/25	pl041525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.8		30 (77) - 150 (126)	119%	SPK: 20

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167535BS	SDG No.:	Q1744
Lab Sample ID:	PB167535BS	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
PL095232.D	1	04/09/25 12:50	04/15/25 13:05	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	0.46		0.0037	0.050	ug/L
76-44-8	Heptachlor	0.50		0.0027	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.49		0.0096	0.050	ug/L
72-20-8	Endrin	0.52		0.0032	0.050	ug/L
72-43-5	Methoxychlor	0.52		0.011	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
57-74-9	Chlordane	0.088	U	0.088	0.50	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.0		30 (43) - 150 (140)	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.6		30 (77) - 150 (126)	83%	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:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MS	SDG No.:	Q1744
Lab Sample ID:	Q1739-02MS	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
PL095145.D	1	04/09/25 12:50	04/09/25 18:58	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	3.10		0.037	0.50	ug/L
76-44-8	Heptachlor	2.90		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	3.00		0.096	0.50	ug/L
72-20-8	Endrin	3.40		0.032	0.50	ug/L
72-43-5	Methoxychlor	3.40		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.4		30 (43) - 150 (140)	87%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.0		30 (77) - 150 (126)	70%	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:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MSD	SDG No.:	Q1744
Lab Sample ID:	Q1739-02MSD	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
PL095146.D	1	04/09/25 12:50	04/09/25 19:12	PB167535

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
58-89-9	gamma-BHC (Lindane)	3.10		0.037	0.50	ug/L
76-44-8	Heptachlor	2.80		0.027	0.50	ug/L
1024-57-3	Heptachlor epoxide	2.90		0.096	0.50	ug/L
72-20-8	Endrin	3.30		0.032	0.50	ug/L
72-43-5	Methoxychlor	3.40		0.11	0.50	ug/L
8001-35-2	Toxaphene	1.70	U	1.70	10.0	ug/L
57-74-9	Chlordane	0.88	U	0.88	5.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.4		30 (43) - 150 (140)	82%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.7		30 (77) - 150 (126)	69%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Calibration Date(s):** 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL094569.D RT 075 = PL094570.D

RT 050 = PL094571.D RT 025 = PL094572.D RT 005 = PL094573.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	9.05	9.06	9.06	9.06	9.05	9.05	8.95	9.15
Endrin	6.57	6.57	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	4.91	4.92	4.92	4.91	4.92	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	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.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Calibration Date(s):** 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL094569.D RT 075 = PL094570.D

RT 050 = PL094571.D RT 025 = PL094572.D RT 005 = PL094573.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
Endrin	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
gamma-BHC (Lindane)	3.60	3.60	3.60	3.60	3.60	3.60	3.50	3.70
Heptachlor	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.72	4.72	4.73	4.72	4.72	4.72	4.62	4.82
Methoxychlor	6.61	6.61	6.61	6.61	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L

Calibration Date(s): 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL094569.D **CF 075 =** PL094570.D

CF 050 = PL094571.D **CF 025 =** PL094572.D **CF 005 =** PL094573.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	1938960000	1961100000	2020410000	2196220000	2420590000	2107460000	10
Endrin	2585940000	2584670000	2628790000	2810860000	3250100000	2772070000	10
gamma-BHC (Lindane)	3886090000	3824550000	3841420000	4060770000	4338530000	3990270000	5
Heptachlor	3645730000	3661000000	3717820000	3965990000	4417600000	3881630000	8
Heptachlor epoxide	3127680000	3124100000	3197280000	3386170000	3890740000	3345200000	10
Methoxychlor	1109170000	1148450000	1148150000	1275940000	1303650000	1197070000	7
Tetrachloro-m-xylene	2677630000	2681900000	2722740000	2922670000	3148400000	2830670000	7

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L

Calibration Date(s): 03/11/2025 03/11/2025

Calibration Times: 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL094569.D **CF 075 =** PL094570.D

CF 050 = PL094571.D **CF 025 =** PL094572.D **CF 005 =** PL094573.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	3950320000	3868520000	3903950000	4095240000	4378770000	4039360000	5
Endrin	4434550000	4325290000	4326060000	4330520000	4401830000	4363650000	1
gamma-BHC (Lindane)	5372230000	5230100000	5132530000	5070750000	4891640000	5139450000	3
Heptachlor	5363060000	5262730000	5228770000	5273220000	5215450000	5268650000	1
Heptachlor epoxide	4619190000	4519300000	4529520000	4593130000	4631780000	4578580000	1
Methoxychlor	2089160000	2085630000	2099350000	2155560000	2175640000	2121070000	2
Tetrachloro-m-xylene	3572520000	3517330000	3502400000	3623970000	3630140000	3569270000	2

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Date(s) Analyzed:** 03/11/2025 03/11/2025

GC Column: ZB-MR1 **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	134630000
		2	5.23	5.13	5.33	144652000
		3	5.94	5.84	6.04	464863000
		4	6.02	5.92	6.12	547710000
		5	6.87	6.77	6.97	104488000
Toxaphene	500	1	6.24	6.14	6.34	25951700
		2	6.44	6.34	6.54	16397600
		3	7.06	6.96	7.16	82030600
		4	7.15	7.05	7.25	62943200
		5	7.93	7.83	8.03	45040400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Date(s) Analyzed:** 03/11/2025 03/11/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.77	3.67	3.87	148442000
		2	4.35	4.25	4.45	174676000
		3	4.97	4.87	5.07	522517000
		4	5.04	4.94	5.14	515418000
		5	5.93	5.83	6.03	187177000
Toxaphene	500	1	5.00	4.90	5.10	26020300
		2	5.32	5.22	5.42	25489100
		3	5.68	5.58	5.78	28236400
		4	6.60	6.50	6.70	96540400
		5	7.04	6.94	7.14	93337600

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Calibration Date(s):** 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL095205.D RT 075 = PL095206.D

RT 050 = PL095207.D RT 025 = PL095208.D RT 005 = PL095209.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	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
gamma-BHC (Lindane)	4.32	4.32	4.32	4.32	4.32	4.32	4.22	4.42
Heptachlor	4.91	4.91	4.91	4.91	4.91	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	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	3.53	3.54	3.53	3.43	3.63

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Calibration Date(s):** 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL095205.D RT 075 = PL095206.D

RT 050 = PL095207.D RT 025 = PL095208.D RT 005 = PL095209.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Decachlorobiphenyl	7.90	7.90	7.90	7.90	7.90	7.90	7.80	8.00
Endrin	5.63	5.63	5.63	5.63	5.63	5.63	5.53	5.73
gamma-BHC (Lindane)	3.60	3.60	3.60	3.60	3.60	3.60	3.50	3.70
Heptachlor	3.94	3.94	3.94	3.94	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.72	4.72	4.72	4.72	4.72	4.72	4.62	4.82
Methoxychlor	6.60	6.60	6.60	6.60	6.60	6.60	6.50	6.70
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L

Calibration Date(s): 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL095205.D **CF 075 =** PL095206.D

CF 050 = PL095207.D **CF 025 =** PL095208.D **CF 005 =** PL095209.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	2152650000	2143060000	2315860000	2506920000	2920000000	2407700000	13
Endrin	2427110000	2378350000	2522880000	2698310000	3004020000	2606130000	10
gamma-BHC (Lindane)	3655690000	3593350000	3721550000	3933060000	4324270000	3845590000	8
Heptachlor	3396740000	3361020000	3535970000	3806720000	4231640000	3666420000	10
Heptachlor epoxide	2983280000	2943510000	3103640000	3358770000	3664680000	3210780000	9
Methoxychlor	1227700000	1216120000	1306040000	1403800000	1543530000	1339440000	10
Tetrachloro-m-xylene	2536040000	2534180000	2646610000	2847530000	3152050000	2743280000	10

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L

Calibration Date(s): 04/14/2025 04/14/2025

Calibration Times: 15:07 16:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL095205.D **CF 075 =** PL095206.D

CF 050 = PL095207.D **CF 025 =** PL095208.D **CF 005 =** PL095209.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
Decachlorobiphenyl	4198950000	4104180000	4298770000	4455630000	4937900000	4399090000	7
Endrin	4170920000	4046000000	4174880000	4210140000	4285130000	4177410000	2
gamma-BHC (Lindane)	5366590000	5201940000	5275500000	5291420000	5180170000	5263120000	1
Heptachlor	5200960000	5062970000	5185650000	5266650000	5281100000	5199470000	2
Heptachlor epoxide	4497860000	4388170000	4526840000	4636840000	4793660000	4568670000	3
Methoxychlor	2188160000	2143820000	2244500000	2307260000	2344730000	2245690000	4
Tetrachloro-m-xylene	3639270000	3571250000	3666060000	3785580000	3943930000	3721220000	4

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Date(s) Analyzed:** 04/14/2025 04/14/2025

GC Column: ZB-MR1 **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	127558000
		2	5.23	5.13	5.33	130182000
		3	5.94	5.84	6.04	468201000
		4	6.02	5.92	6.12	550131000
		5	6.87	6.77	6.97	107924000
Toxaphene	500	1	6.23	6.13	6.33	27376000
		2	6.44	6.34	6.54	14916800
		3	7.06	6.96	7.16	82942000
		4	7.15	7.05	7.25	64931700
		5	7.93	7.83	8.03	46223600

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_L **Date(s) Analyzed:** 04/14/2025 04/14/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	500	1	3.76	3.66	3.86	147703000
		2	4.34	4.24	4.44	170474000
		3	4.97	4.87	5.07	498602000
		4	5.03	4.93	5.13	495465000
		5	5.93	5.83	6.03	183560000
Toxaphene	500	1	4.99	4.89	5.09	27499800
		2	5.32	5.22	5.42	25414900
		3	5.68	5.58	5.78	27465800
		4	6.59	6.49	6.69	96741800
		5	7.03	6.93	7.13	106909000

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 16:49 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.06	8.96	9.16	0.01
Tetrachloro-m-xylene	3.53	3.54	3.44	3.64	0.01
gamma-BHC (Lindane)	4.32	4.33	4.23	4.43	0.01
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 16:49 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.91	7.81	8.01	0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Heptachlor epoxide	4.72	4.73	4.63	4.83	0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.61	6.51	6.71	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095138.D **Time Analyzed:** 16:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.048	8.956	9.156	48.170	50.000	-3.7
Endrin	6.567	6.474	6.674	42.670	50.000	-14.7
gamma-BHC (Lindane)	4.323	4.227	4.427	45.190	50.000	-9.6
Heptachlor	4.910	4.815	5.015	42.960	50.000	-14.1
Heptachlor epoxide	5.678	5.583	5.783	44.200	50.000	-11.6
Methoxychlor	7.495	7.400	7.600	48.130	50.000	-3.7
Tetrachloro-m-xylene	3.534	3.438	3.638	46.390	50.000	-7.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095138.D **Time Analyzed:** 16:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.899	7.807	8.007	40.930	50.000	-18.1
Endrin	5.626	5.534	5.734	46.910	50.000	-6.2
gamma-BHC (Lindane)	3.599	3.504	3.704	50.840	50.000	1.7
Heptachlor	3.936	3.842	4.042	47.670	50.000	-4.7
Heptachlor epoxide	4.717	4.625	4.825	47.170	50.000	-5.7
Methoxychlor	6.599	6.507	6.707	44.680	50.000	-10.6
Tetrachloro-m-xylene	2.768	2.672	2.872	51.110	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 20:20 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.06	8.96	9.16	0.01
Tetrachloro-m-xylene	3.53	3.54	3.44	3.64	0.01
gamma-BHC (Lindane)	4.32	4.33	4.23	4.43	0.01
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 20:20 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.91	7.81	8.01	0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.01
Heptachlor epoxide	4.72	4.73	4.63	4.83	0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.61	6.51	6.71	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095149.D **Time Analyzed:** 20:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.047	8.956	9.156	50.060	50.000	0.1
Endrin	6.567	6.474	6.674	40.440	50.000	-19.1
gamma-BHC (Lindane)	4.322	4.227	4.427	47.980	50.000	-4.0
Heptachlor	4.909	4.815	5.015	44.270	50.000	-11.5
Heptachlor epoxide	5.677	5.583	5.783	46.130	50.000	-7.7
Methoxychlor	7.492	7.400	7.600	46.330	50.000	-7.3
Tetrachloro-m-xylene	3.534	3.438	3.638	49.030	50.000	-1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095149.D **Time Analyzed:** 20:20

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.898	7.807	8.007	48.140	50.000	-3.7
Endrin	5.626	5.534	5.734	45.520	50.000	-9.0
gamma-BHC (Lindane)	3.598	3.504	3.704	53.340	50.000	6.7
Heptachlor	3.935	3.842	4.042	49.330	50.000	-1.3
Heptachlor epoxide	4.717	4.625	4.825	50.590	50.000	1.2
Methoxychlor	6.599	6.507	6.707	45.780	50.000	-8.4
Tetrachloro-m-xylene	2.767	2.672	2.872	53.560	50.000	7.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 23:33 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.06	8.96	9.16	0.01
Tetrachloro-m-xylene	3.53	3.54	3.44	3.64	0.01
gamma-BHC (Lindane)	4.32	4.33	4.23	4.43	0.01
Heptachlor	4.91	4.92	4.82	5.02	0.01
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Methoxychlor	7.49	7.50	7.40	7.60	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 03/11/2025 03/11/2025

Continuing Calib Time: 23:33 **Initial Calibration Time(s):** 10:35 11:29

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.91	7.81	8.01	0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.01
Heptachlor epoxide	4.72	4.73	4.63	4.83	0.01
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.61	6.51	6.71	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095163.D **Time Analyzed:** 23:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.045	8.956	9.156	50.730	50.000	1.5
Endrin	6.567	6.474	6.674	41.680	50.000	-16.6
gamma-BHC (Lindane)	4.322	4.227	4.427	46.400	50.000	-7.2
Heptachlor	4.909	4.815	5.015	43.480	50.000	-13.0
Heptachlor epoxide	5.678	5.583	5.783	46.450	50.000	-7.1
Methoxychlor	7.494	7.400	7.600	47.060	50.000	-5.9
Tetrachloro-m-xylene	3.534	3.438	3.638	46.840	50.000	-6.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/09/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095163.D **Time Analyzed:** 23:33

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.897	7.807	8.007	50.810	50.000	1.6
Endrin	5.625	5.534	5.734	46.200	50.000	-7.6
gamma-BHC (Lindane)	3.599	3.504	3.704	50.930	50.000	1.9
Heptachlor	3.935	3.842	4.042	47.430	50.000	-5.1
Heptachlor epoxide	4.717	4.625	4.825	48.940	50.000	-2.1
Methoxychlor	6.598	6.507	6.707	47.380	50.000	-5.2
Tetrachloro-m-xylene	2.768	2.672	2.872	51.170	50.000	2.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 11:21 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR1 **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	4.32	4.22	4.42	-0.01
Heptachlor	4.92	4.91	4.81	5.01	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
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.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 11:21 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.90	7.90	7.80	8.00	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.60	6.60	6.50	6.70	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095226.D **Time Analyzed:** 11:21

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.058	8.953	9.153	48.620	50.000	-2.8
Endrin	6.573	6.471	6.671	55.430	50.000	10.9
gamma-BHC (Lindane)	4.327	4.223	4.423	51.610	50.000	3.2
Heptachlor	4.915	4.811	5.011	51.810	50.000	3.6
Heptachlor epoxide	5.684	5.580	5.780	50.300	50.000	0.6
Methoxychlor	7.503	7.398	7.598	50.000	50.000	0.0
Tetrachloro-m-xylene	3.539	3.435	3.635	50.650	50.000	1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL04 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095226.D **Time Analyzed:** 11:21

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.901	7.800	8.000	48.840	50.000	-2.3
Endrin	5.629	5.527	5.727	50.820	50.000	1.6
gamma-BHC (Lindane)	3.599	3.499	3.699	46.180	50.000	-7.6
Heptachlor	3.937	3.836	4.036	50.060	50.000	0.1
Heptachlor epoxide	4.719	4.618	4.818	49.610	50.000	-0.8
Methoxychlor	6.601	6.499	6.699	50.970	50.000	1.9
Tetrachloro-m-xylene	2.768	2.667	2.867	47.180	50.000	-5.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 15:08 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR1 **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	4.32	4.22	4.42	-0.01
Heptachlor	4.92	4.91	4.81	5.01	-0.01
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.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/15/2025 **Initial Calibration Date(s):** 04/14/2025 04/14/2025

Continuing Calib Time: 15:08 **Initial Calibration Time(s):** 15:07 16:15

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.90	7.80	8.00	-0.01
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
gamma-BHC (Lindane)	3.60	3.60	3.50	3.70	0.00
Heptachlor	3.94	3.94	3.84	4.04	0.00
Heptachlor epoxide	4.72	4.72	4.62	4.82	0.00
Endrin	5.63	5.63	5.53	5.73	0.00
Methoxychlor	6.61	6.60	6.50	6.70	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL05 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095236.D **Time Analyzed:** 15:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.063	8.953	9.153	51.570	50.000	3.1
Endrin	6.579	6.471	6.671	55.680	50.000	11.4
gamma-BHC (Lindane)	4.331	4.223	4.423	51.130	50.000	2.3
Heptachlor	4.919	4.811	5.011	52.890	50.000	5.8
Heptachlor epoxide	5.688	5.580	5.780	51.510	50.000	3.0
Methoxychlor	7.507	7.398	7.598	49.330	50.000	-1.3
Tetrachloro-m-xylene	3.543	3.435	3.635	55.220	50.000	10.4

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No.: CCAL05 **Date Analyzed:** 04/15/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL095236.D **Time Analyzed:** 15:08

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.906	7.800	8.000	43.400	50.000	-13.2
Endrin	5.631	5.527	5.727	53.150	50.000	6.3
gamma-BHC (Lindane)	3.602	3.499	3.699	49.310	50.000	-1.4
Heptachlor	3.940	3.836	4.036	52.310	50.000	4.6
Heptachlor epoxide	4.722	4.618	4.818	51.290	50.000	2.6
Methoxychlor	6.605	6.499	6.699	50.080	50.000	0.2
Tetrachloro-m-xylene	2.770	2.667	2.867	52.570	50.000	5.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094567.D **Date Analyzed:** 03/11/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:08

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.052	8.950	9.150	20.540	20.000	2.7
Tetrachloro-m-xylene	3.536	3.490	3.590	19.600	20.000	-2.0
alpha-BHC	3.992	3.940	4.040	10.230	10.000	2.3
beta-BHC	4.524	4.470	4.570	10.180	10.000	1.8
gamma-BHC (Lindane)	4.325	4.270	4.380	10.310	10.000	3.1
Endrin	6.572	6.500	6.640	43.430	50.000	-13.1
4,4'-DDT	7.021	6.950	7.090	87.030	100.000	-13.0
Methoxychlor	7.498	7.430	7.570	214.630	250.000	-14.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL094567.D **Date Analyzed:** 03/11/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:08

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.905	7.800	8.010	19.590	20.000	-2.1
Tetrachloro-m-xylene	2.771	2.720	2.820	19.320	20.000	-3.4
alpha-BHC	3.273	3.220	3.320	9.150	10.000	-8.5
beta-BHC	3.903	3.850	3.950	10.130	10.000	1.3
gamma-BHC (Lindane)	3.603	3.550	3.650	9.160	10.000	-8.4
Endrin	5.632	5.560	5.700	44.410	50.000	-11.2
4,4'-DDT	6.030	5.960	6.100	97.400	100.000	-2.6
Methoxychlor	6.605	6.530	6.680	224.380	250.000	-10.2

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095128.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.049	8.950	9.150	26.150	20.000	30.8
Tetrachloro-m-xylene	3.536	3.490	3.590	23.490	20.000	17.5
alpha-BHC	3.992	3.940	4.040	12.010	10.000	20.1
beta-BHC	4.523	4.470	4.570	12.040	10.000	20.4
gamma-BHC (Lindane)	4.324	4.270	4.370	12.060	10.000	20.6
Endrin	6.569	6.500	6.640	50.710	50.000	1.4
4,4'-DDT	7.020	6.950	7.090	112.470	100.000	12.5
Methoxychlor	7.497	7.430	7.570	271.750	250.000	8.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095128.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 08:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.900	7.800	8.000	24.640	20.000	23.2
Tetrachloro-m-xylene	2.770	2.720	2.820	24.610	20.000	23.1
alpha-BHC	3.271	3.220	3.320	11.740	10.000	17.4
beta-BHC	3.901	3.850	3.950	13.350	10.000	33.5
gamma-BHC (Lindane)	3.600	3.550	3.650	11.860	10.000	18.6
Endrin	5.627	5.560	5.700	56.090	50.000	12.2
4,4'-DDT	6.026	5.960	6.100	122.140	100.000	22.1
Methoxychlor	6.599	6.530	6.670	276.490	250.000	10.6

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095148.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.047	8.950	9.150	22.310	20.000	11.6
Tetrachloro-m-xylene	3.534	3.480	3.580	21.230	20.000	6.2
alpha-BHC	3.990	3.940	4.040	10.890	10.000	8.9
beta-BHC	4.522	4.470	4.570	10.930	10.000	9.3
gamma-BHC (Lindane)	4.322	4.270	4.370	10.920	10.000	9.2
Endrin	6.568	6.500	6.640	41.960	50.000	-16.1
4,4'-DDT	7.019	6.950	7.090	86.460	100.000	-13.5
Methoxychlor	7.496	7.430	7.570	221.620	250.000	-11.4

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/11/2025 03/11/2025

Client Sample No. (PEM): PEM - PL095148.D **Date Analyzed:** 04/09/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.898	7.800	8.000	19.250	20.000	-3.8
Tetrachloro-m-xylene	2.768	2.720	2.820	23.240	20.000	16.2
alpha-BHC	3.269	3.220	3.320	10.910	10.000	9.1
beta-BHC	3.899	3.850	3.950	12.120	10.000	21.2
gamma-BHC (Lindane)	3.598	3.550	3.650	10.830	10.000	8.3
Endrin	5.626	5.560	5.700	46.980	50.000	-6.0
4,4'-DDT	6.024	5.950	6.090	94.370	100.000	-5.6
Methoxychlor	6.599	6.530	6.670	221.180	250.000	-11.5

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095203.D **Date Analyzed:** 04/14/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:40

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.050	8.950	9.150	22.620	20.000	13.1
Tetrachloro-m-xylene	3.534	3.480	3.580	21.850	20.000	9.3
alpha-BHC	3.990	3.940	4.040	11.380	10.000	13.8
beta-BHC	4.523	4.470	4.570	12.790	10.000	27.9
gamma-BHC (Lindane)	4.323	4.270	4.370	11.530	10.000	15.3
Endrin	6.570	6.500	6.640	50.330	50.000	0.7
4,4'-DDT	7.021	6.950	7.090	101.530	100.000	1.5
Methoxychlor	7.498	7.430	7.570	238.190	250.000	-4.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095203.D **Date Analyzed:** 04/14/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:40

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.899	7.800	8.000	21.790	20.000	9.0
Tetrachloro-m-xylene	2.767	2.720	2.820	21.170	20.000	5.9
alpha-BHC	3.269	3.220	3.320	10.330	10.000	3.3
beta-BHC	3.899	3.850	3.950	11.180	10.000	11.8
gamma-BHC (Lindane)	3.598	3.550	3.650	10.190	10.000	1.9
Endrin	5.626	5.560	5.700	51.510	50.000	3.0
4,4'-DDT	6.024	5.950	6.090	109.830	100.000	9.8
Methoxychlor	6.598	6.530	6.670	252.390	250.000	1.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095225.D **Date Analyzed:** 04/15/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.053	8.950	9.150	23.300	20.000	16.5
Tetrachloro-m-xylene	3.536	3.490	3.590	23.590	20.000	18.0
alpha-BHC	3.992	3.940	4.040	12.460	10.000	24.6
beta-BHC	4.524	4.470	4.570	12.250	10.000	22.5
gamma-BHC (Lindane)	4.325	4.270	4.380	12.570	10.000	25.7
Endrin	6.570	6.500	6.640	58.070	50.000	16.1
4,4'-DDT	7.022	6.950	7.090	113.210	100.000	13.2
Methoxychlor	7.499	7.430	7.570	255.200	250.000	2.1

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 04/14/2025 04/14/2025

Client Sample No. (PEM): PEM - PL095225.D **Date Analyzed:** 04/15/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:51

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.900	7.800	8.000	22.650	20.000	13.3
Tetrachloro-m-xylene	2.768	2.720	2.820	21.230	20.000	6.2
alpha-BHC	3.270	3.220	3.320	10.280	10.000	2.8
beta-BHC	3.900	3.850	3.950	10.920	10.000	9.2
gamma-BHC (Lindane)	3.600	3.550	3.650	9.700	10.000	-3.0
Endrin	5.628	5.560	5.700	53.160	50.000	6.3
4,4'-DDT	6.025	5.950	6.100	117.880	100.000	17.9
Methoxychlor	6.599	6.530	6.670	266.840	250.000	6.7

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/11/2025 03/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/11/2025	09:55	PL094566.D	9.05	3.54
PEM	PEM	03/11/2025	10:08	PL094567.D	9.05	3.54
RESCHK	RESCHK	03/11/2025	10:22	PL094568.D	9.05	3.54
PSTDICC100	PSTDICC100	03/11/2025	10:35	PL094569.D	9.05	3.54
PSTDICC075	PSTDICC075	03/11/2025	10:49	PL094570.D	9.06	3.54
PSTDICC050	PSTDICC050	03/11/2025	11:02	PL094571.D	9.06	3.54
PSTDICC025	PSTDICC025	03/11/2025	11:16	PL094572.D	9.06	3.54
PSTDICC005	PSTDICC005	03/11/2025	11:29	PL094573.D	9.05	3.54
PCHLORICC500	PCHLORICC500	03/11/2025	12:10	PL094576.D	9.06	3.54
PTOXICC500	PTOXICC500	03/11/2025	13:18	PL094581.D	9.05	3.54
PEM	PEM	04/09/2025	08:43	PL095128.D	9.05	3.54
I.BLK	I.BLK	04/09/2025	16:36	PL095137.D	9.05	3.53
PSTDCCC050	PSTDCCC050	04/09/2025	16:49	PL095138.D	9.05	3.53
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	18:58	PL095145.D	9.05	3.53
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	19:12	PL095146.D	9.05	3.53
I.BLK	I.BLK	04/09/2025	19:26	PL095147.D	9.05	3.53
PEM	PEM	04/09/2025	19:39	PL095148.D	9.05	3.53
PSTDCCC050	PSTDCCC050	04/09/2025	20:20	PL095149.D	9.05	3.53
PB167535BL	PB167535BL	04/09/2025	21:29	PL095154.D	9.05	3.53
PB167517TB	PB167517TB	04/09/2025	22:10	PL095157.D	9.05	3.53
B-158-SB01	Q1744-02	04/09/2025	22:24	PL095158.D	9.05	3.53
B-158-SB02	Q1744-04	04/09/2025	22:38	PL095159.D	9.05	3.53
I.BLK	I.BLK	04/09/2025	23:19	PL095162.D	9.05	3.53
PSTDCCC050	PSTDCCC050	04/09/2025	23:33	PL095163.D	9.05	3.53
I.BLK	I.BLK	04/14/2025	14:26	PL095202.D	9.05	3.53
PEM	PEM	04/14/2025	14:40	PL095203.D	9.05	3.53
RESCHK	RESCHK	04/14/2025	14:54	PL095204.D	9.05	3.53
PSTDICC100	PSTDICC100	04/14/2025	15:07	PL095205.D	9.05	3.54
PSTDICC075	PSTDICC075	04/14/2025	15:21	PL095206.D	9.05	3.54
PSTDICC050	PSTDICC050	04/14/2025	15:35	PL095207.D	9.05	3.54
PSTDICC025	PSTDICC025	04/14/2025	16:02	PL095208.D	9.05	3.53
PSTDICC005	PSTDICC005	04/14/2025	16:15	PL095209.D	9.05	3.54
PCHLORICC500	PCHLORICC500	04/14/2025	16:56	PL095212.D	9.05	3.54
PTOXICC500	PTOXICC500	04/14/2025	18:05	PL095217.D	9.05	3.54
I.BLK	I.BLK	04/15/2025	10:37	PL095224.D	9.05	3.54
PEM	PEM	04/15/2025	10:51	PL095225.D	9.05	3.54
PSTDCCC050	PSTDCCC050	04/15/2025	11:21	PL095226.D	9.06	3.54
PB167535BS	PB167535BS	04/15/2025	13:05	PL095232.D	9.07	3.54
I.BLK	I.BLK	04/15/2025	13:57	PL095235.D	9.06	3.54
PSTDCCC050	PSTDCCC050	04/15/2025	15:08	PL095236.D	9.06	3.54

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/11/2025 03/11/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/11/2025	09:55	PL094566.D	7.91	2.77
PEM	PEM	03/11/2025	10:08	PL094567.D	7.91	2.77
RESCHK	RESCHK	03/11/2025	10:22	PL094568.D	7.91	2.77
PSTDICC100	PSTDICC100	03/11/2025	10:35	PL094569.D	7.91	2.77
PSTDICC075	PSTDICC075	03/11/2025	10:49	PL094570.D	7.91	2.77
PSTDICC050	PSTDICC050	03/11/2025	11:02	PL094571.D	7.91	2.77
PSTDICC025	PSTDICC025	03/11/2025	11:16	PL094572.D	7.91	2.77
PSTDICC005	PSTDICC005	03/11/2025	11:29	PL094573.D	7.91	2.77
PCHLORICC500	PCHLORICC500	03/11/2025	12:10	PL094576.D	7.91	2.77
PTOXICC500	PTOXICC500	03/11/2025	13:18	PL094581.D	7.91	2.77
PEM	PEM	04/09/2025	08:43	PL095128.D	7.90	2.77
I.BLK	I.BLK	04/09/2025	16:36	PL095137.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/09/2025	16:49	PL095138.D	7.90	2.77
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	18:58	PL095145.D	7.90	2.77
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	19:12	PL095146.D	7.90	2.77
I.BLK	I.BLK	04/09/2025	19:26	PL095147.D	7.90	2.77
PEM	PEM	04/09/2025	19:39	PL095148.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/09/2025	20:20	PL095149.D	7.90	2.77
PB167535BL	PB167535BL	04/09/2025	21:29	PL095154.D	7.90	2.77
PB167517TB	PB167517TB	04/09/2025	22:10	PL095157.D	7.90	2.77
B-158-SB01	Q1744-02	04/09/2025	22:24	PL095158.D	7.90	2.77
B-158-SB02	Q1744-04	04/09/2025	22:38	PL095159.D	7.90	2.77
I.BLK	I.BLK	04/09/2025	23:19	PL095162.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/09/2025	23:33	PL095163.D	7.90	2.77
I.BLK	I.BLK	04/14/2025	14:26	PL095202.D	7.90	2.77
PEM	PEM	04/14/2025	14:40	PL095203.D	7.90	2.77
RESCHK	RESCHK	04/14/2025	14:54	PL095204.D	7.90	2.77
PSTDICC100	PSTDICC100	04/14/2025	15:07	PL095205.D	7.90	2.77
PSTDICC075	PSTDICC075	04/14/2025	15:21	PL095206.D	7.90	2.77
PSTDICC050	PSTDICC050	04/14/2025	15:35	PL095207.D	7.90	2.77
PSTDICC025	PSTDICC025	04/14/2025	16:02	PL095208.D	7.90	2.77
PSTDICC005	PSTDICC005	04/14/2025	16:15	PL095209.D	7.90	2.77
PCHLORICC500	PCHLORICC500	04/14/2025	16:56	PL095212.D	7.90	2.77
PTOXICC500	PTOXICC500	04/14/2025	18:05	PL095217.D	7.90	2.77
I.BLK	I.BLK	04/15/2025	10:37	PL095224.D	7.90	2.77
PEM	PEM	04/15/2025	10:51	PL095225.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/15/2025	11:21	PL095226.D	7.90	2.77
PB167535BS	PB167535BS	04/15/2025	13:05	PL095232.D	7.91	2.77
I.BLK	I.BLK	04/15/2025	13:57	PL095235.D	7.90	2.77
PSTDCCC050	PSTDCCC050	04/15/2025	15:08	PL095236.D	7.91	2.77

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167535BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Lab Sample ID: PB167535BS **Date(s) Analyzed:** 04/15/2025 04/15/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.51	7.46	7.56	0.52	6.7
	2	6.60	6.55	6.65	0.48	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	0.46	0.9
	2	3.60	3.55	3.65	0.46	
Heptachlor	1	4.92	4.87	4.97	0.50	4.6
	2	3.94	3.89	3.99	0.48	
Heptachlor epoxide	1	5.69	5.64	5.74	0.49	0.6
	2	4.72	4.67	4.77	0.49	
Endrin	1	6.58	6.53	6.63	0.51	2.4
	2	5.63	5.58	5.68	0.52	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-LIQUID-20250404MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Lab Sample ID: Q1739-02MS **Date(s) Analyzed:** 04/09/2025 04/09/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	3.40	12.5
	2	6.60	6.55	6.65	3.00	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	2.90	6.7
	2	3.60	3.55	3.65	3.10	
Heptachlor	1	4.91	4.86	4.96	2.80	3.5
	2	3.94	3.89	3.99	2.90	
Heptachlor epoxide	1	5.68	5.63	5.73	3.00	3.4
	2	4.72	4.67	4.77	2.90	
Endrin	1	6.57	6.52	6.62	3.40	19.4
	2	5.63	5.58	5.68	2.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
WC-LIQUID-20250404MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Lab Sample ID: Q1739-02MSD **Date(s) Analyzed:** 04/09/2025 04/09/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Methoxychlor	1	7.50	7.45	7.55	3.40	6.1
	2	6.60	6.55	6.65	3.20	
gamma-BHC (Lindane)	1	4.32	4.27	4.37	2.90	6.7
	2	3.60	3.55	3.65	3.10	
Heptachlor	1	4.91	4.86	4.96	2.80	3.6
	2	3.94	3.89	3.99	2.70	
Heptachlor epoxide	1	5.68	5.63	5.73	2.90	3.5
	2	4.72	4.67	4.77	2.80	
Endrin	1	6.57	6.52	6.62	3.30	20
	2	5.63	5.58	5.68	2.70	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.534	2.768	52050953	69105365	18.388	19.361
28)	SA Decachlor...	9.045	7.897	43763771	79532178	20.766	19.689
	Target Compounds						

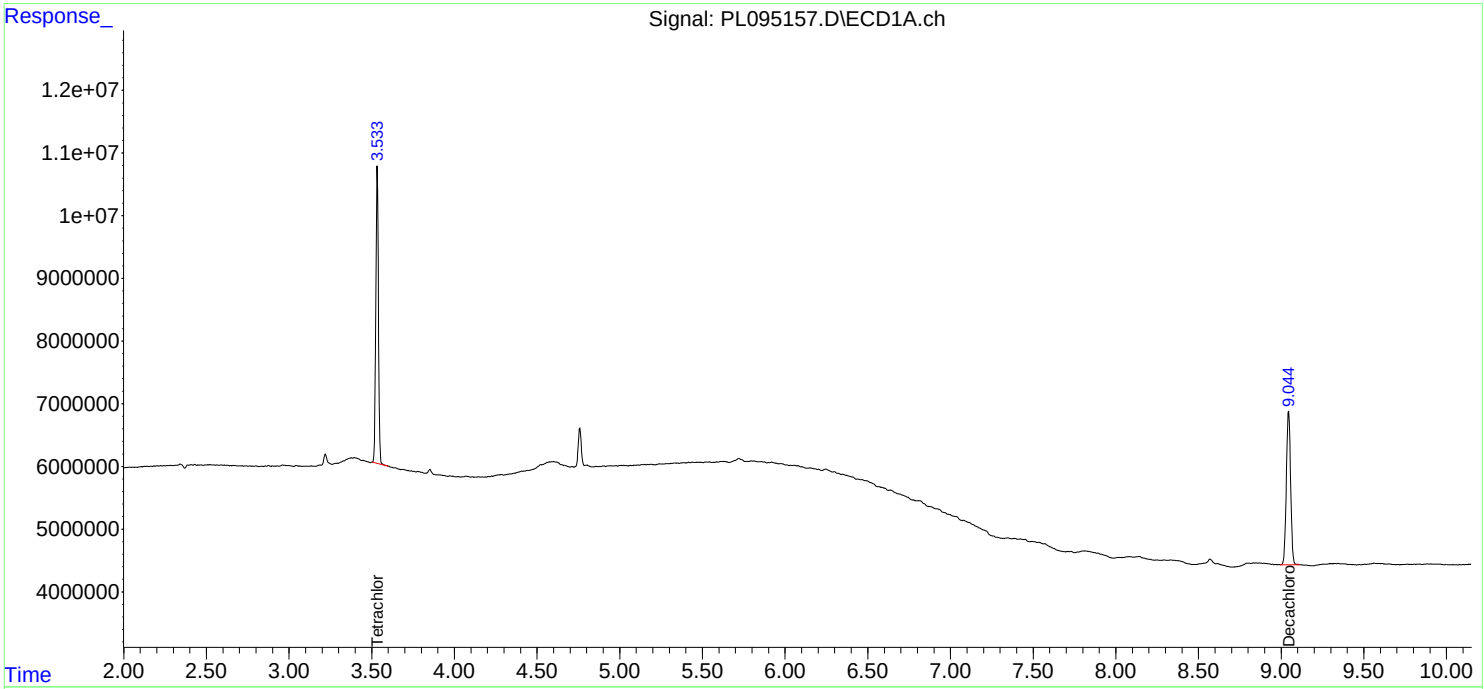
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

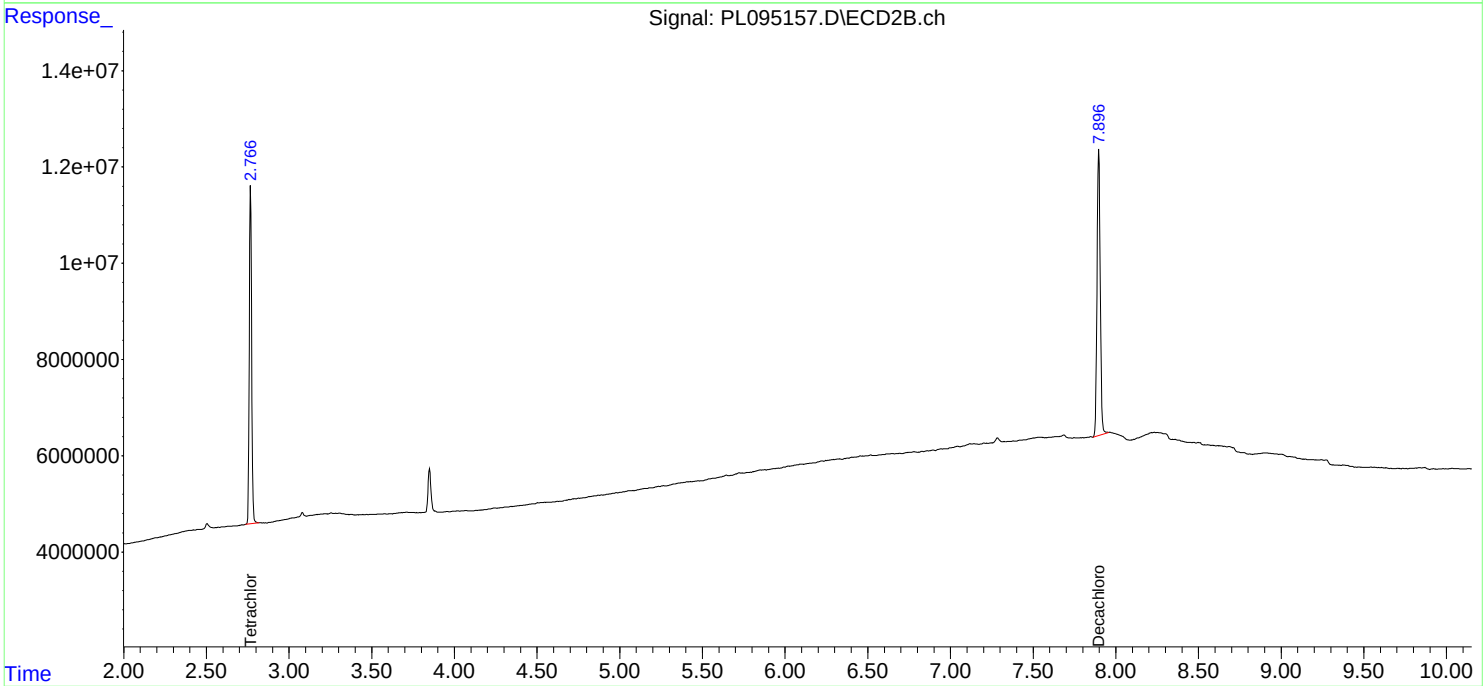
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 27 Sample Multiplier: 1

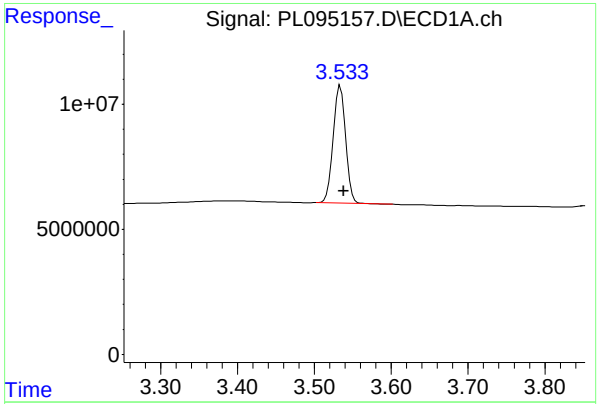
Instrument :
ECD_L
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm



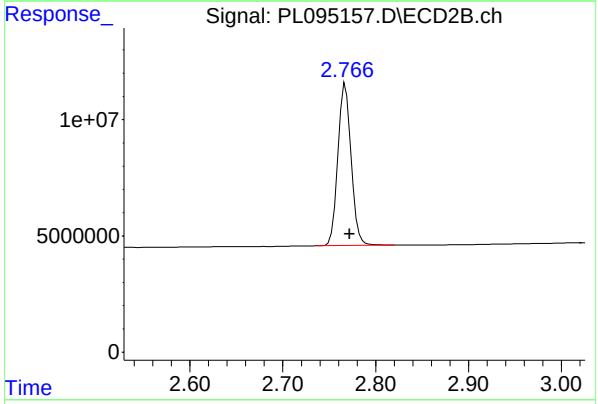




#1 Tetrachloro-m-xylene

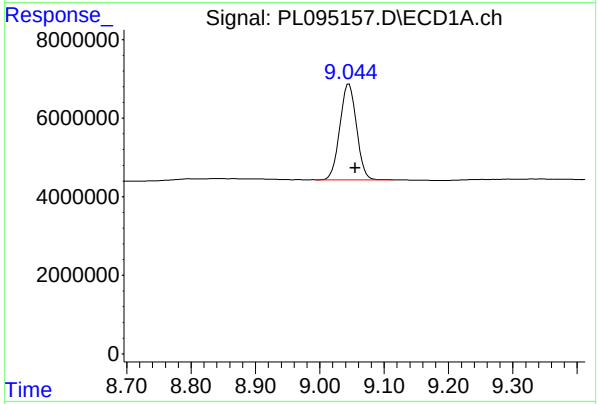
R.T.: 3.534 min
Delta R.T.: -0.004 min
Response: 52050953
Conc: 18.39 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB167517TB



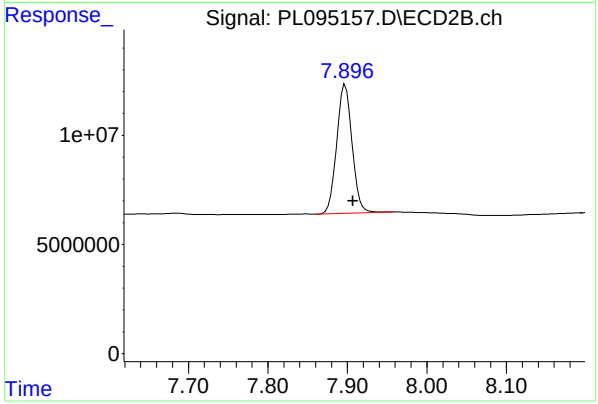
#1 Tetrachloro-m-xylene

R.T.: 2.768 min
Delta R.T.: -0.004 min
Response: 69105365
Conc: 19.36 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.045 min
Delta R.T.: -0.010 min
Response: 43763771
Conc: 20.77 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.897 min
Delta R.T.: -0.009 min
Response: 79532178
Conc: 19.69 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:24
Operator : AR\AJ
Sample : Q1744-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
B-158-SB01

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.533	2.768	50608659	68900945	17.879m	19.304
28)	SA Decachlor...	9.047	7.897	47944542	87306975	22.750	21.614
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

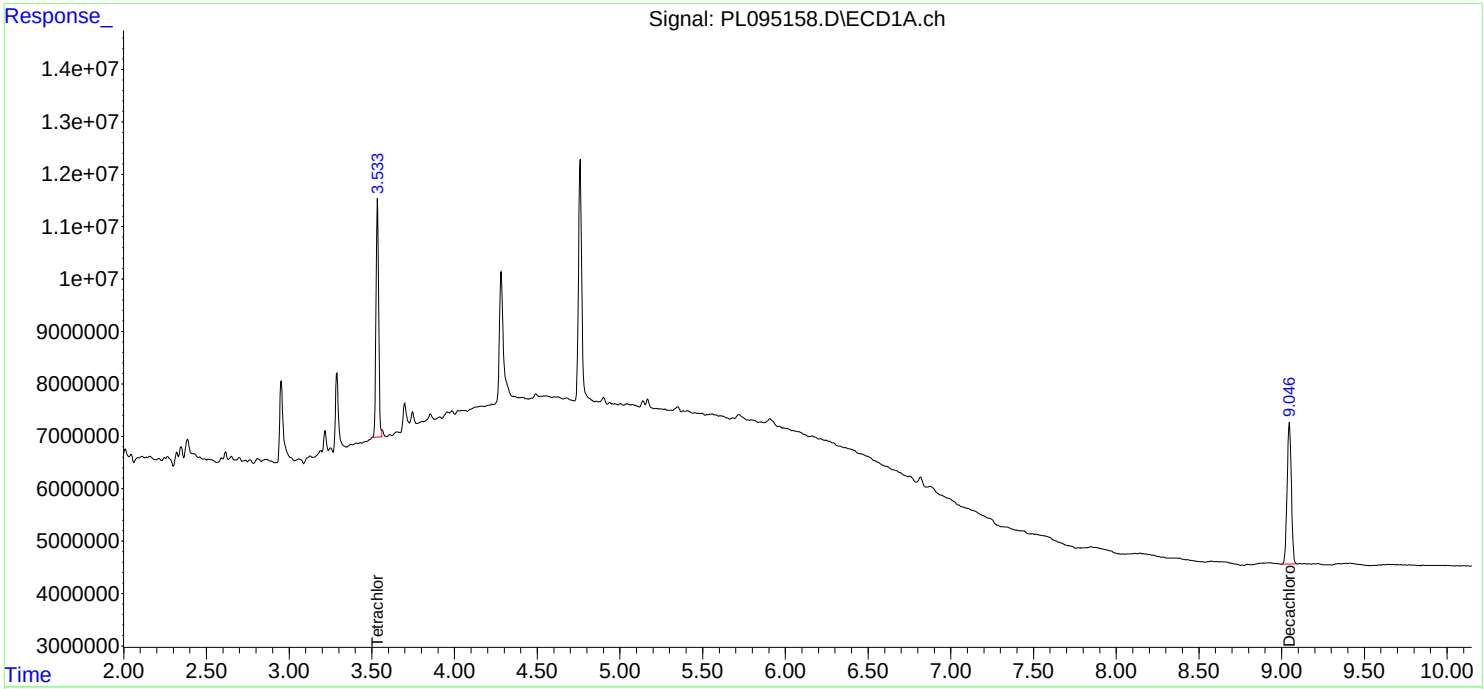
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:24
Operator : AR\AJ
Sample : Q1744-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

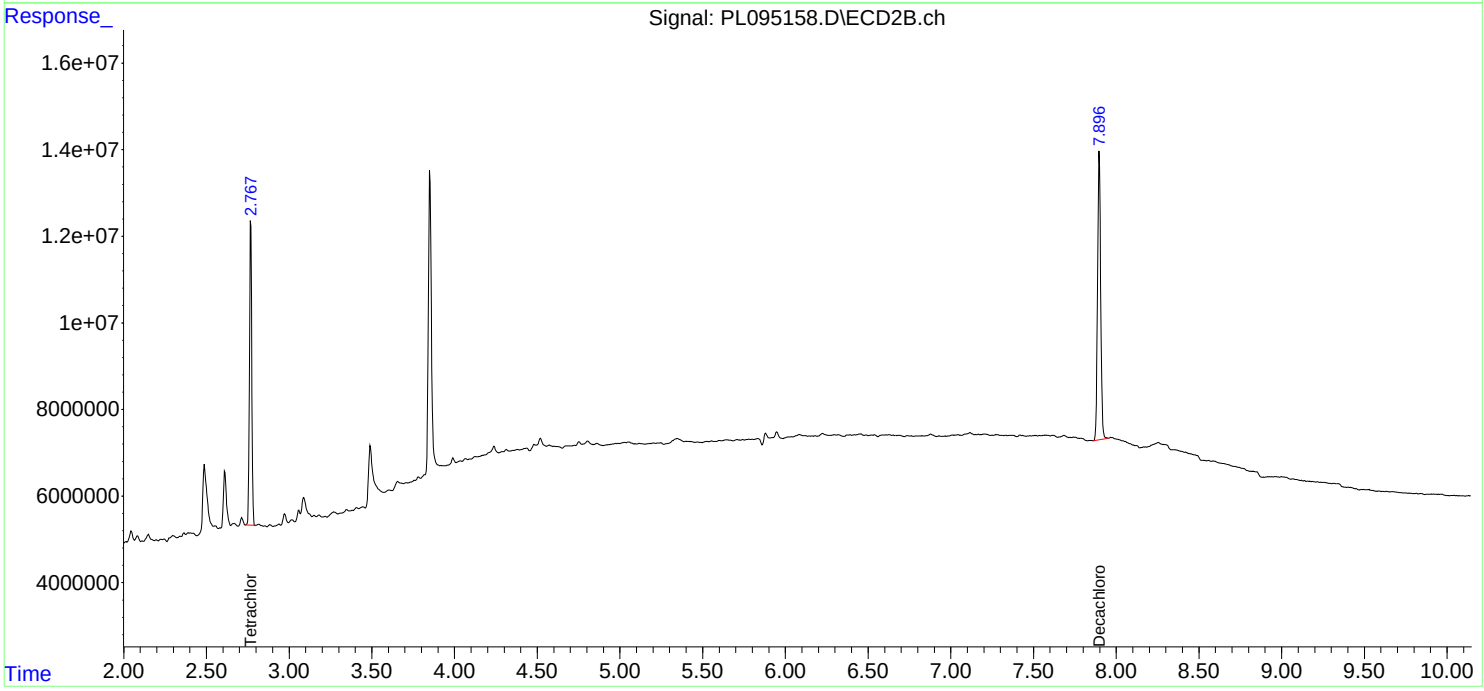
Instrument :
ECD_L
ClientSampleId :
B-158-SB01

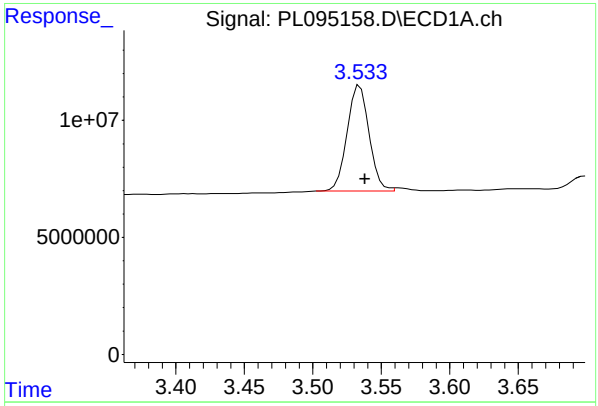
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm







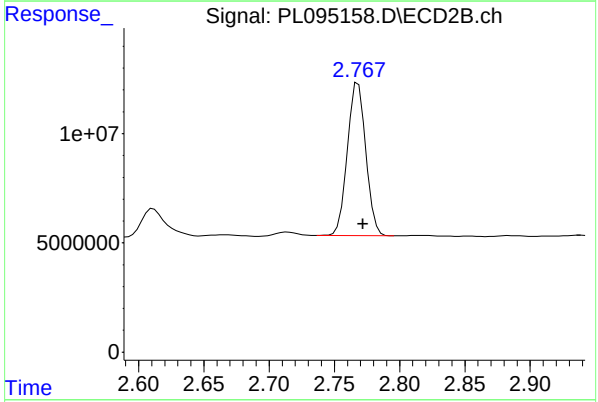
#1 Tetrachloro-m-xylene

R.T.: 3.533 min
Delta R.T.: -0.005 min
Response: 50608659
Conc: 17.88 ng/ml

Instrument :
ECD_L
ClientSampleId :
B-158-SB01

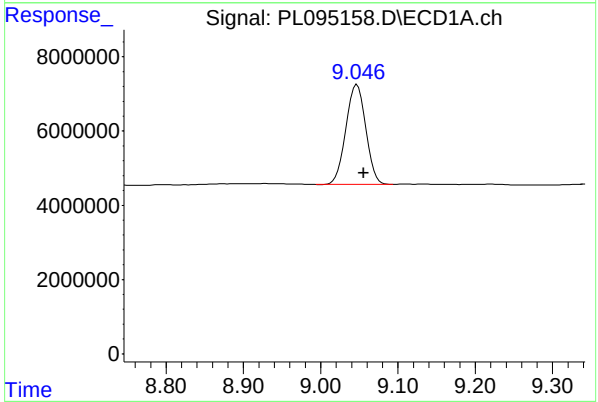
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



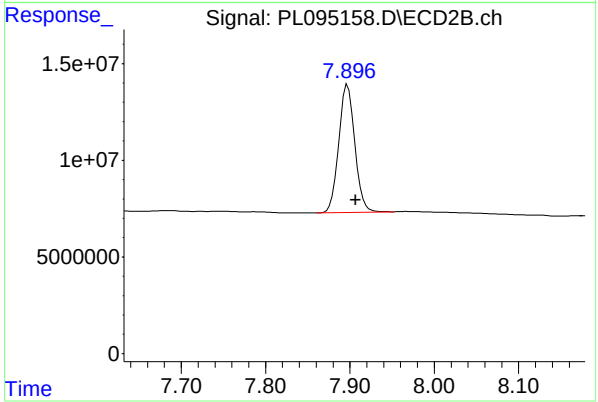
#1 Tetrachloro-m-xylene

R.T.: 2.768 min
Delta R.T.: -0.004 min
Response: 68900945
Conc: 19.30 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.047 min
Delta R.T.: -0.009 min
Response: 47944542
Conc: 22.75 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.897 min
Delta R.T.: -0.010 min
Response: 87306975
Conc: 21.61 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095159.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:38
Operator : AR\AJ
Sample : Q1744-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm

Instrument :
ECD_L
ClientSampleId :
B-158-SB02

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.533	2.768	49939578	69177608	17.642m	19.381
28)	SA Decachlor...	9.047	7.898	49691288	88895610	23.579	22.007
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

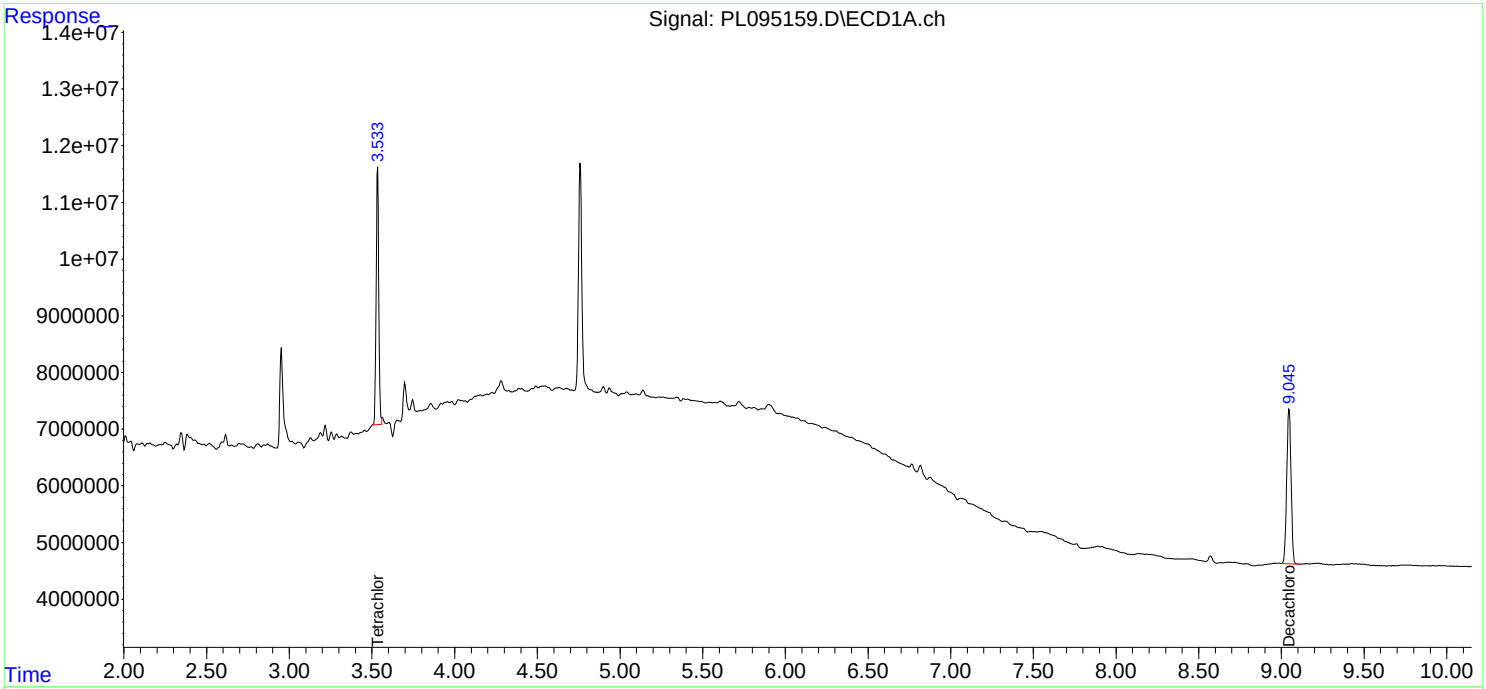
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095159.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:38
Operator : AR\AJ
Sample : Q1744-04
Misc :
ALS Vial : 29 Sample Multiplier: 1

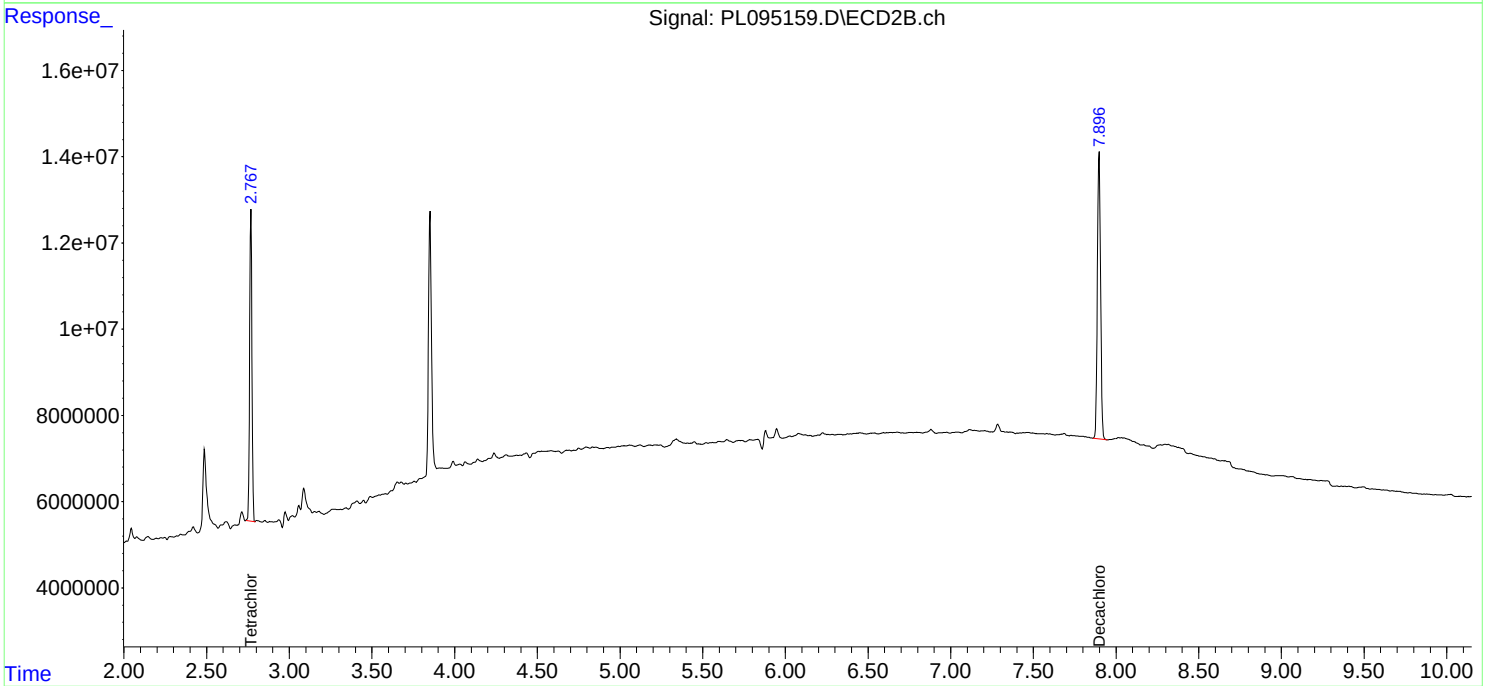
Instrument :
ECD_L
ClientSampleId :
B-158-SB02

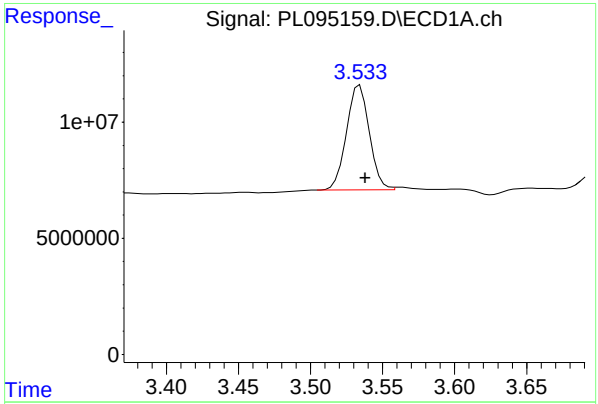
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm







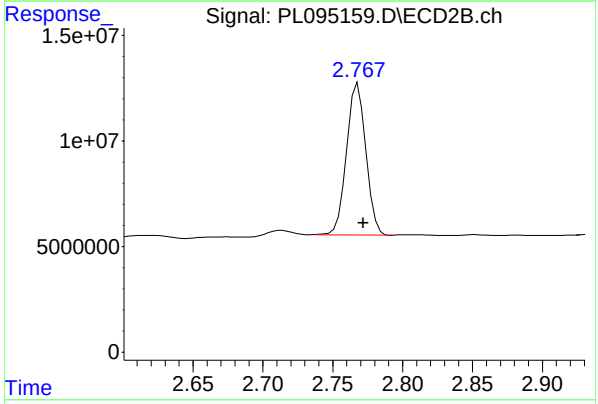
#1 Tetrachloro-m-xylene

R.T.: 3.533 min
Delta R.T.: -0.005 min
Response: 49939578
Conc: 17.64 ng/ml

Instrument :
ECD_L
ClientSampleId :
B-158-SB02

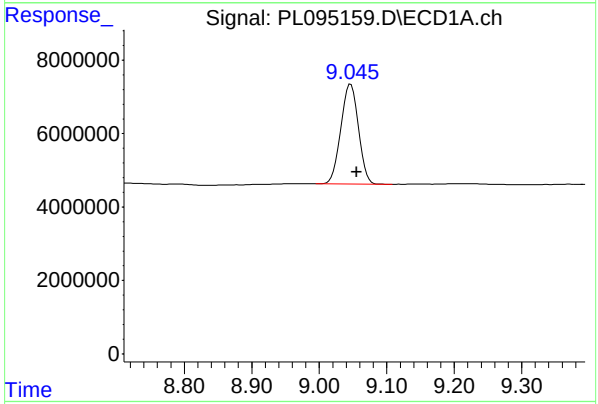
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



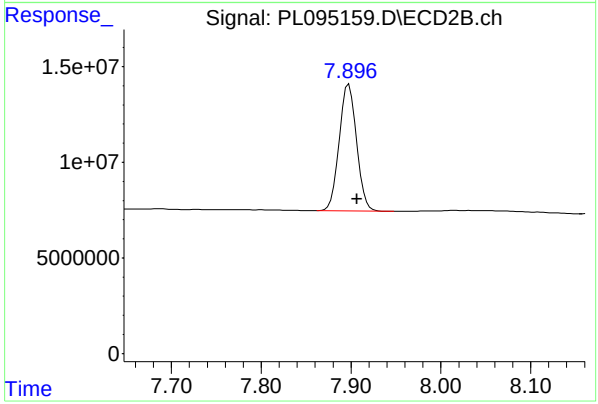
#1 Tetrachloro-m-xylene

R.T.: 2.768 min
Delta R.T.: -0.004 min
Response: 69177608
Conc: 19.38 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.047 min
Delta R.T.: -0.009 min
Response: 49691288
Conc: 23.58 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.898 min
Delta R.T.: -0.009 min
Response: 88895610
Conc: 22.01 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:29
Operator : AR\AJ
Sample : PB167535BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167535BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.534	2.768	54637747	72230684	19.302	20.237
28)	SA Decachlor...	9.047	7.897	43956546	78769476	20.858	19.500
	Target Compounds						

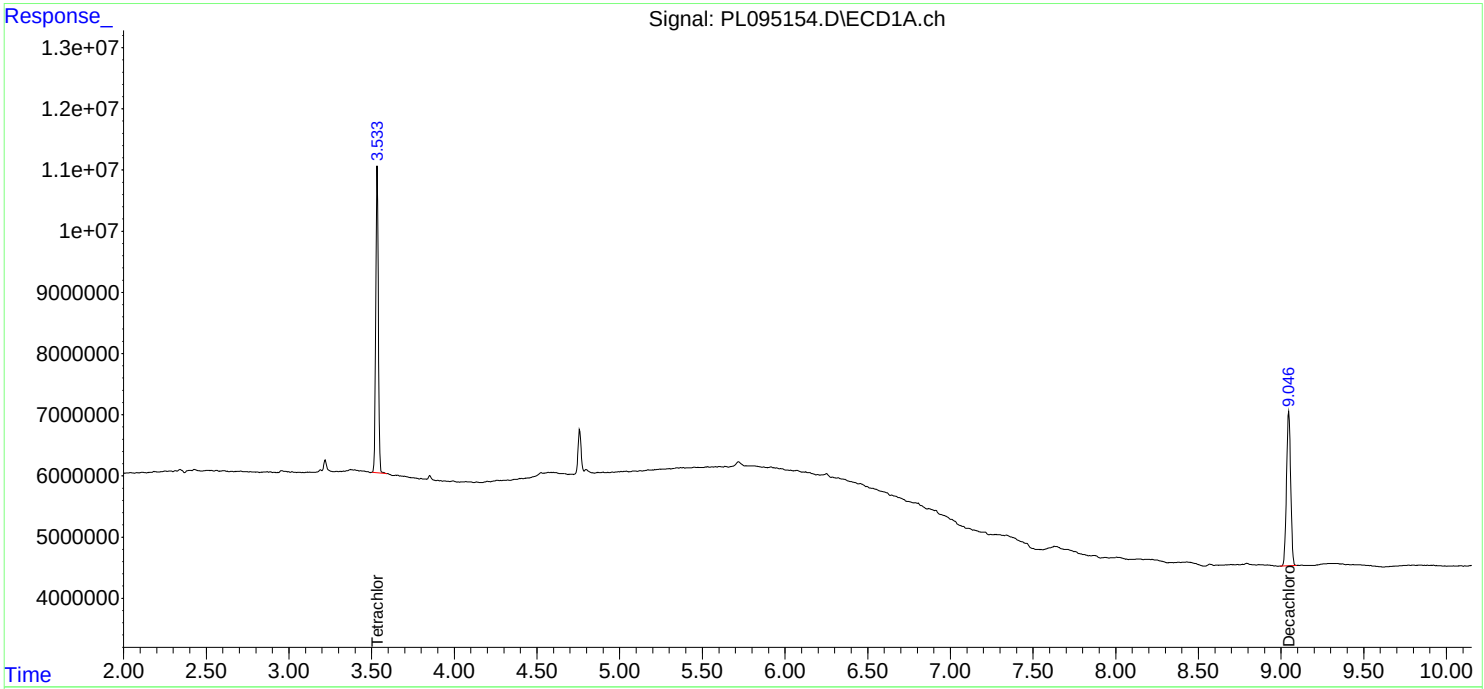
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

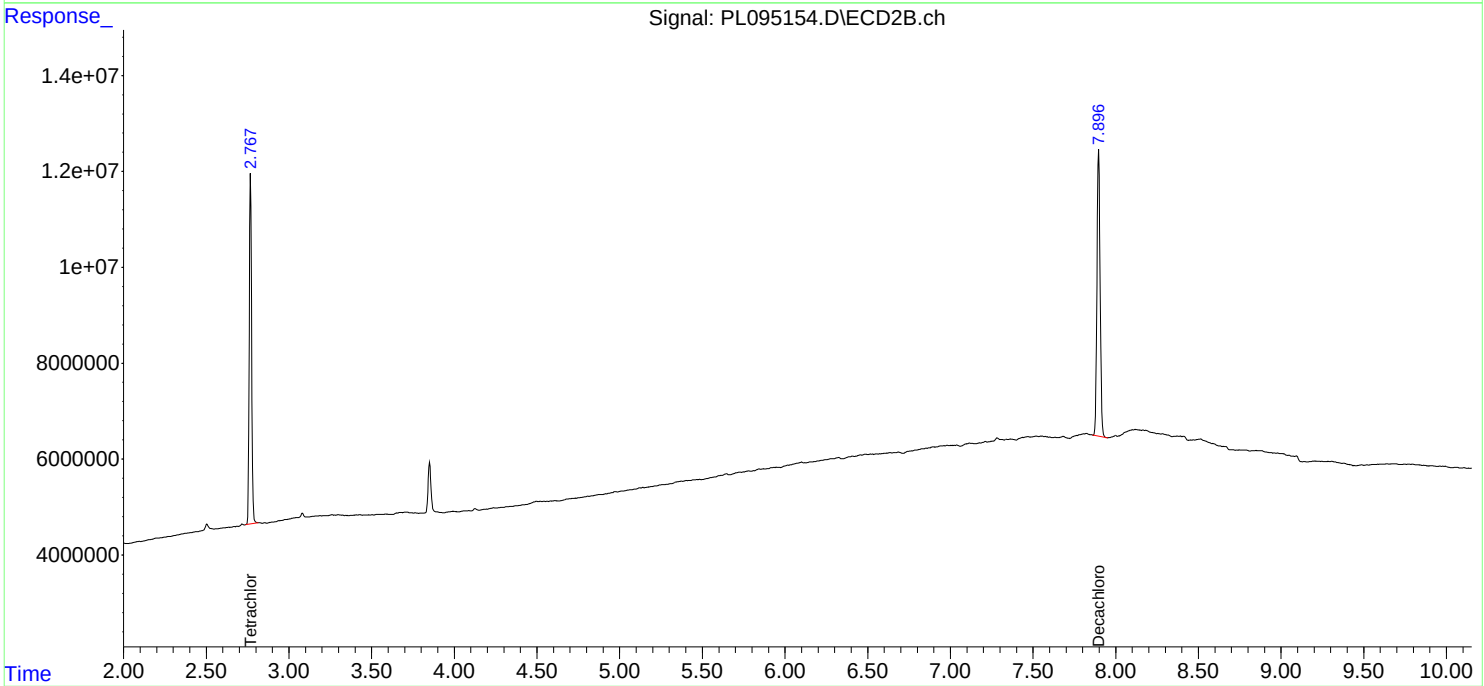
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:29
Operator : AR\AJ
Sample : PB167535BL
Misc :
ALS Vial : 24 Sample Multiplier: 1

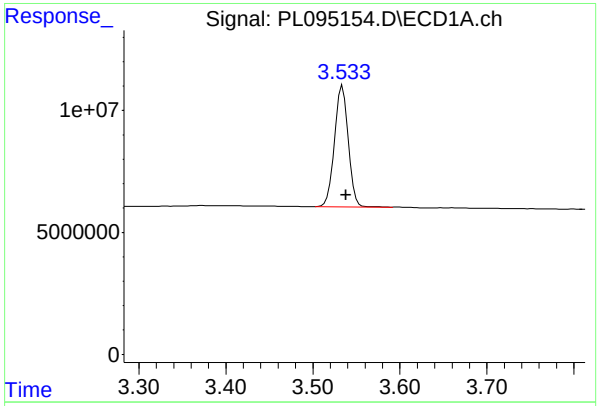
Instrument :
ECD_L
ClientSampleId :
PB167535BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:27:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm



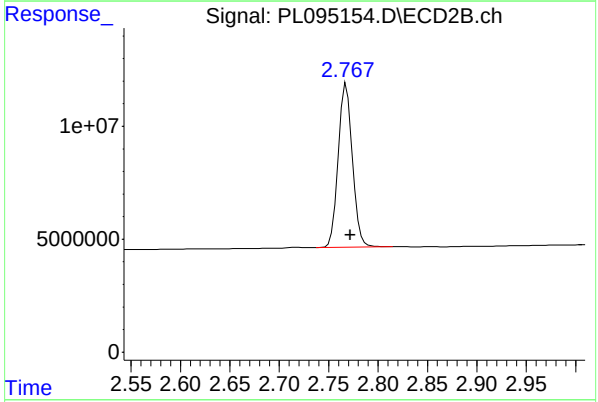




#1 Tetrachloro-m-xylene

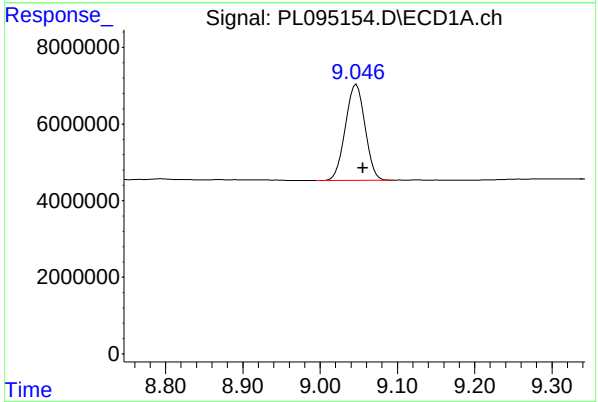
R.T.: 3.534 min
Delta R.T.: -0.004 min
Response: 54637747
Conc: 19.30 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB167535BL



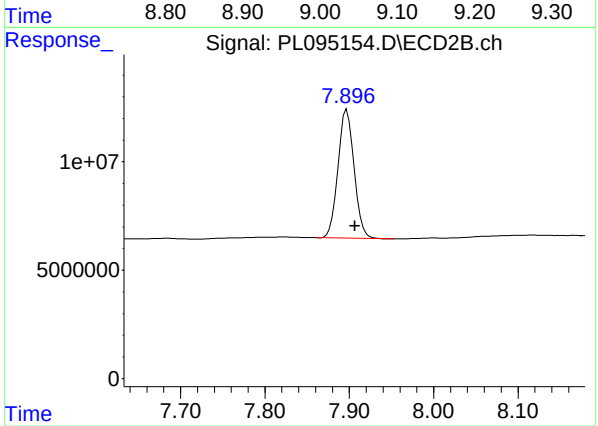
#1 Tetrachloro-m-xylene

R.T.: 2.768 min
Delta R.T.: -0.004 min
Response: 72230684
Conc: 20.24 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.047 min
Delta R.T.: -0.009 min
Response: 43956546
Conc: 20.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.897 min
Delta R.T.: -0.010 min
Response: 78769476
Conc: 19.50 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL041525\
Data File : PL095232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Apr 2025 13:05
Operator : AR\AJ
Sample : PB167535BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB167535BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/16/2025
Supervised By :mohammad ahmed 04/16/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 14:13:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL041425.M
Quant Title : GC Extractables
QLast Update : Mon Apr 14 19:12:49 2025
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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.544	2.768	45459137	56956063	16.571	15.306
28)	SA Decachlor...	9.066	7.905	45753604	67955188	19.003	15.448
	Target Compounds						
2)	A alpha-BHC	4.000	3.270	184.3E6	249.3E6	45.860	45.020
3)	MA gamma-BHC...	4.334	3.601	176.7E6	239.8E6	45.956	45.570
4)	MA Heptachlor	4.922	3.938	182.6E6	247.4E6	49.800	47.578
5)	MB Aldrin	5.263	4.218	175.4E6	224.6E6	49.689	46.086
6)	B beta-BHC	4.533	3.901	79305563	103.1E6	45.233	44.477
7)	B delta-BHC	4.778	4.130	191.5E6	221.0E6	48.858m	42.754
8)	B Heptachlo...	5.690	4.720	157.1E6	222.2E6	48.924	48.638
9)	A Endosulfan I	6.076	5.090	156.0E6	219.2E6	50.356	50.499
10)	B gamma-Chl...	5.946	4.971	167.7E6	235.6E6	50.200	48.906
11)	B alpha-Chl...	6.025	5.034	166.0E6	232.8E6	50.011	49.108
12)	B 4,4'-DDE	6.200	5.223	160.4E6	233.5E6	49.067	48.506
13)	MA Dieldrin	6.351	5.355	166.0E6	236.6E6	50.388	49.300
14)	MA Endrin	6.581	5.631	133.0E6	218.3E6	51.047	52.266
15)	B Endosulfa...	6.802	5.926	142.4E6	213.0E6	49.941	48.515
16)	A 4,4'-DDD	6.718	5.779	124.6E6	187.9E6	49.061	48.315
17)	MA 4,4'-DDT	7.032	6.028	135.0E6	210.0E6	53.017	50.415
18)	B Endrin al...	6.932	6.105	110.0E6	162.5E6	49.969	48.211
19)	B Endosulfa...	7.168	6.329	128.6E6	207.9E6	50.048	49.788
20)	A Methoxychlor	7.509	6.604	69469908	108.9E6	51.865	48.486
21)	B Endrin ke...	7.653	6.834	140.1E6	236.5E6	48.547	46.901
22)	Mirex	8.125	7.013	104.9E6	171.5E6	49.330	43.617

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

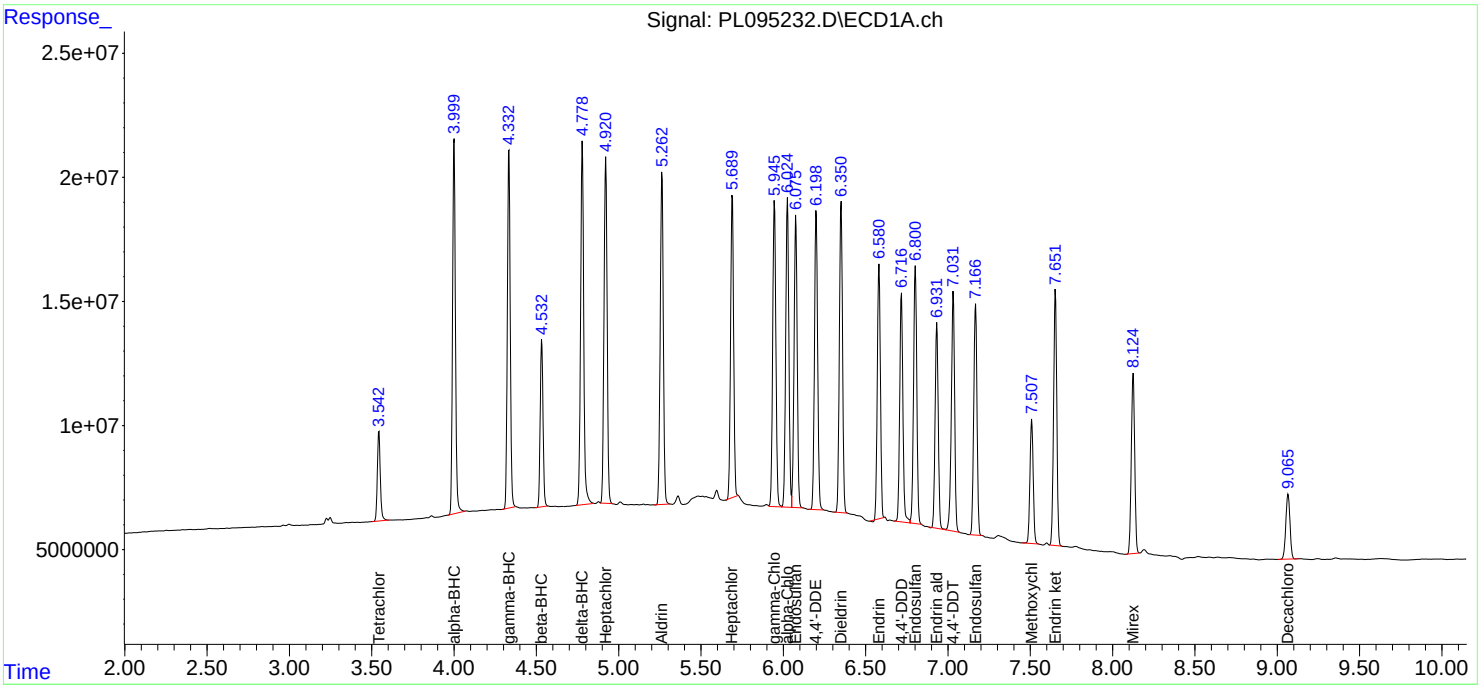
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL041525\
Data File : PL095232.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Apr 2025 13:05
Operator : AR\AJ
Sample : PB167535BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

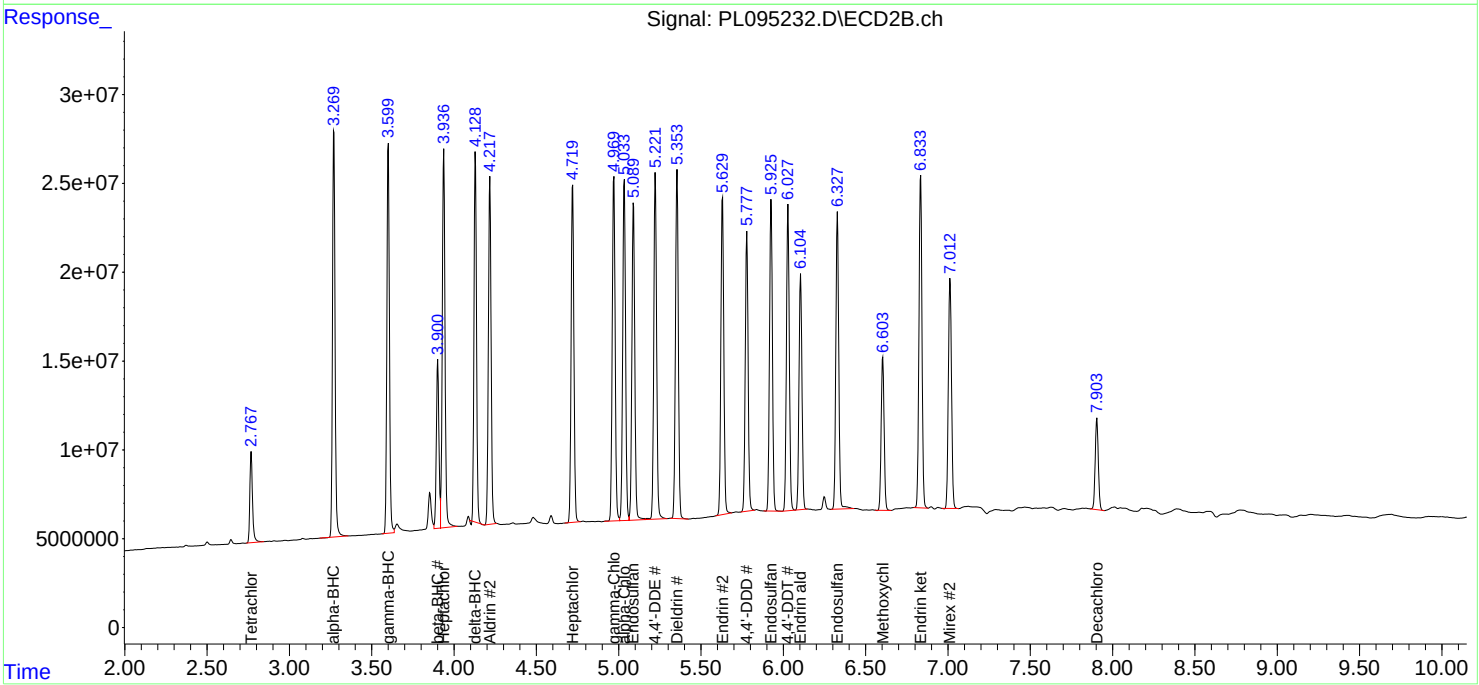
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 15 14:13:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL041425.M
Quant Title : GC Extractables
QLast Update : Mon Apr 14 19:12:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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 x0.25µm

Instrument :
ECD_L
ClientSampleId :
PB167535BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/16/2025
Supervised By :mohammad ahmed 04/16/2025





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 18:58
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.534	2.767	35271484	49889239	12.460m	13.977m
28)	SA Decachlor...	9.047	7.899	36593191	51673290	17.364m	12.792 #
	Target Compounds						
2)	A alpha-BHC	3.991	3.270	129.0E6	190.1E6	31.058	35.258
3)	MA gamma-BHC...	4.323	3.600	115.4E6	157.4E6	28.910	30.618
4)	MA Heptachlor	4.910	3.936	108.6E6	151.9E6	27.983	28.822m
5)	MB Aldrin	5.250	4.216	90495317	141.3E6	24.510m	28.967
6)	B beta-BHC	4.521	3.900	51440315	72440343	27.878m	32.612
7)	B delta-BHC	4.768	4.128	168.5E6	135.9E6	43.275	27.169 #
8)	B Heptachlo...	5.677	4.719	99815318	131.5E6	29.838m	28.718
9)	A Endosulfan I	6.065	5.086	79917296	140.8E6	26.030	32.080m
10)	B gamma-Chl...	5.935	4.966	95166907	143.6E6	28.245	29.751m
11)	B alpha-Chl...	6.013	5.032	85221921	133.2E6	25.850	27.911
12)	B 4,4'-DDE	6.187	5.220	90836186	129.2E6	30.875	27.791
13)	MA Dieldrin	6.340	5.350	85205921	168.6E6	26.642	34.752m#
14)	MA Endrin	6.569	5.627	92897199	121.1E6	33.512	27.751
15)	B Endosulfa...	6.790	5.920	77189040	121.0E6	28.433	27.966m
16)	A 4,4'-DDD	6.704	5.773	72140671	100.7E6	33.305m	28.006m
17)	MA 4,4'-DDT	7.018	6.023	81604006	126.5E6	34.308m	31.361m
18)	B Endrin al...	6.920	6.100	55633651	87237958	26.354	25.922m
19)	B Endosulfa...	7.153	6.324	71485710	127.5E6	29.394m	31.292
20)	A Methoxychlor	7.496	6.598	40558512	64309612	33.881	30.319m
21)	B Endrin ke...	7.638	6.829	96133198	140.1E6	36.369m	29.345
22)	Mirex	8.111	7.009	70200258	108.8E6	33.974	28.677

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

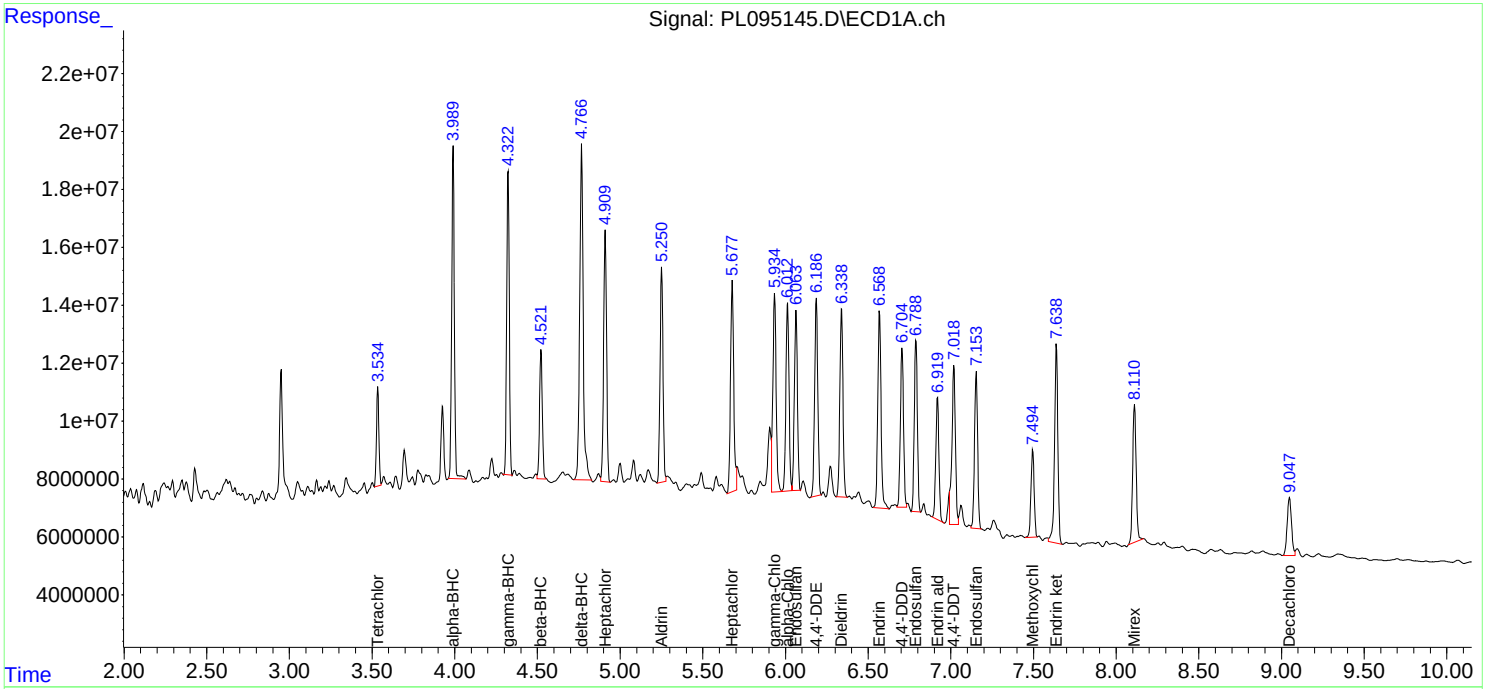
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 18:58
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 18 Sample Multiplier: 1

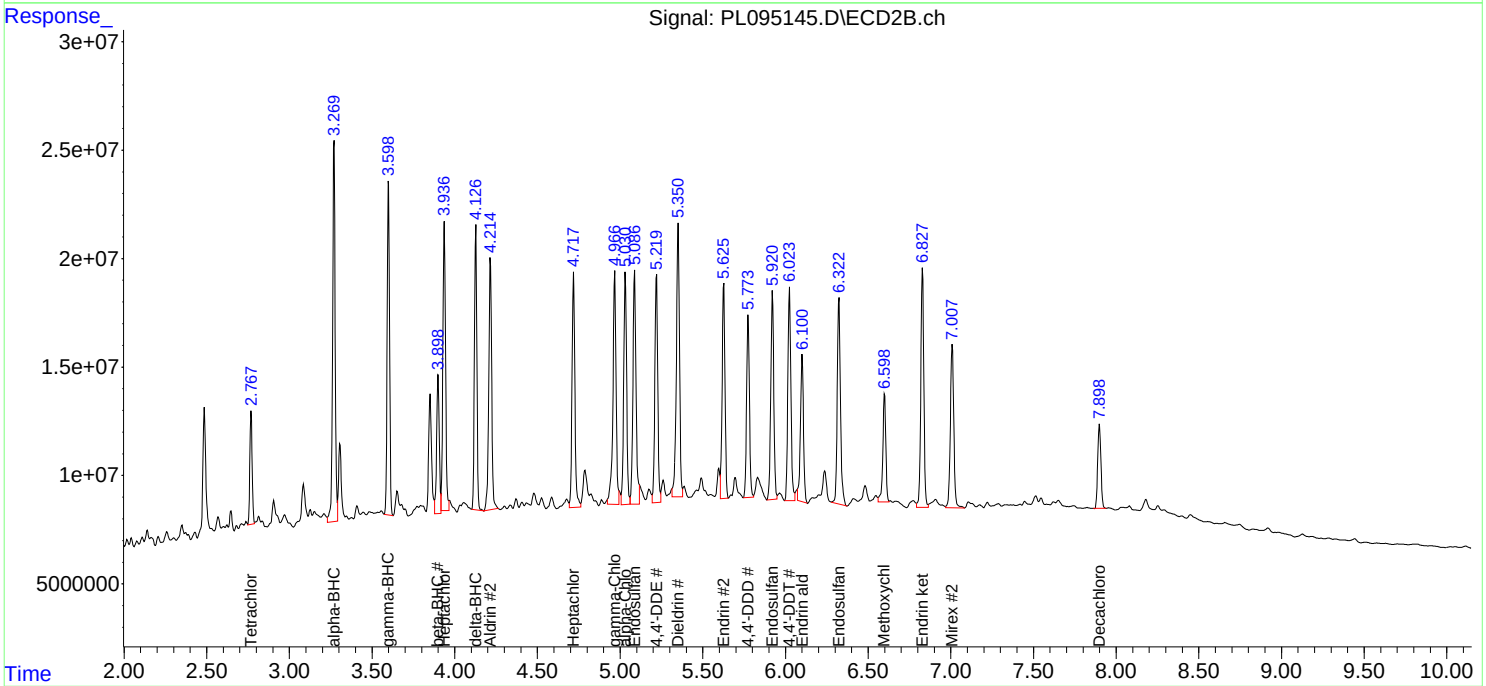
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
Response via : Initial Calibration
Integrator: ChemStation

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 x0.25µm

Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095146.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 19:12
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.533	2.767	34768099	48958685	12.283m	13.717m
28)	SA Decachlor...	9.047	7.899	34559263	52039313	16.399m	12.883
	Target Compounds						
2)	A alpha-BHC	3.990	3.270	124.0E6	190.3E6	29.872	35.292
3)	MA gamma-BHC...	4.323	3.599	113.9E6	159.1E6	28.547	30.965
4)	MA Heptachlor	4.911	3.935	106.8E6	144.4E6	27.524	27.409m
5)	MB Aldrin	5.250	4.215	88681356	138.4E6	24.018m	28.391
6)	B beta-BHC	4.521	3.898	49756043	69621157	26.965m	31.343m
7)	B delta-BHC	4.767	4.127	165.0E6	133.5E6	42.381	26.681 #
8)	B Heptachlo...	5.677	4.718	95976173	129.9E6	28.691m	28.365
9)	A Endosulfan I	6.064	5.087	78486962	150.0E6	25.564	34.174 #
10)	B gamma-Chl...	5.935	4.968	93639414	149.5E6	27.791	30.969
11)	B alpha-Chl...	6.013	5.031	83530901	131.1E6	25.337	27.471
12)	B 4,4'-DDE	6.187	5.220	89307641	128.3E6	30.355	27.600
13)	MA Dieldrin	6.339	5.350	83761915	171.2E6	26.191	35.289m#
14)	MA Endrin	6.569	5.627	90415762	119.9E6	32.617	27.469
15)	B Endosulfa...	6.789	5.920	75795525	120.4E6	27.920	27.810m
16)	A 4,4'-DDD	6.706	5.775	71410249	98205183	32.968	27.310
17)	MA 4,4'-DDT	7.018	6.023	72441272	123.1E6	30.456m	30.518m
18)	B Endrin al...	6.919	6.100	53564851	86109391	25.374	25.587m
19)	B Endosulfa...	7.154	6.323	70446115	128.2E6	28.966	31.484
20)	A Methoxychlor	7.496	6.598	40704355	67064220	34.003	31.618m
21)	B Endrin ke...	7.639	6.829	93851380	139.0E6	35.506	29.122
22)	Mirex	8.110	7.008	71468532	107.1E6	34.588m	28.220

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

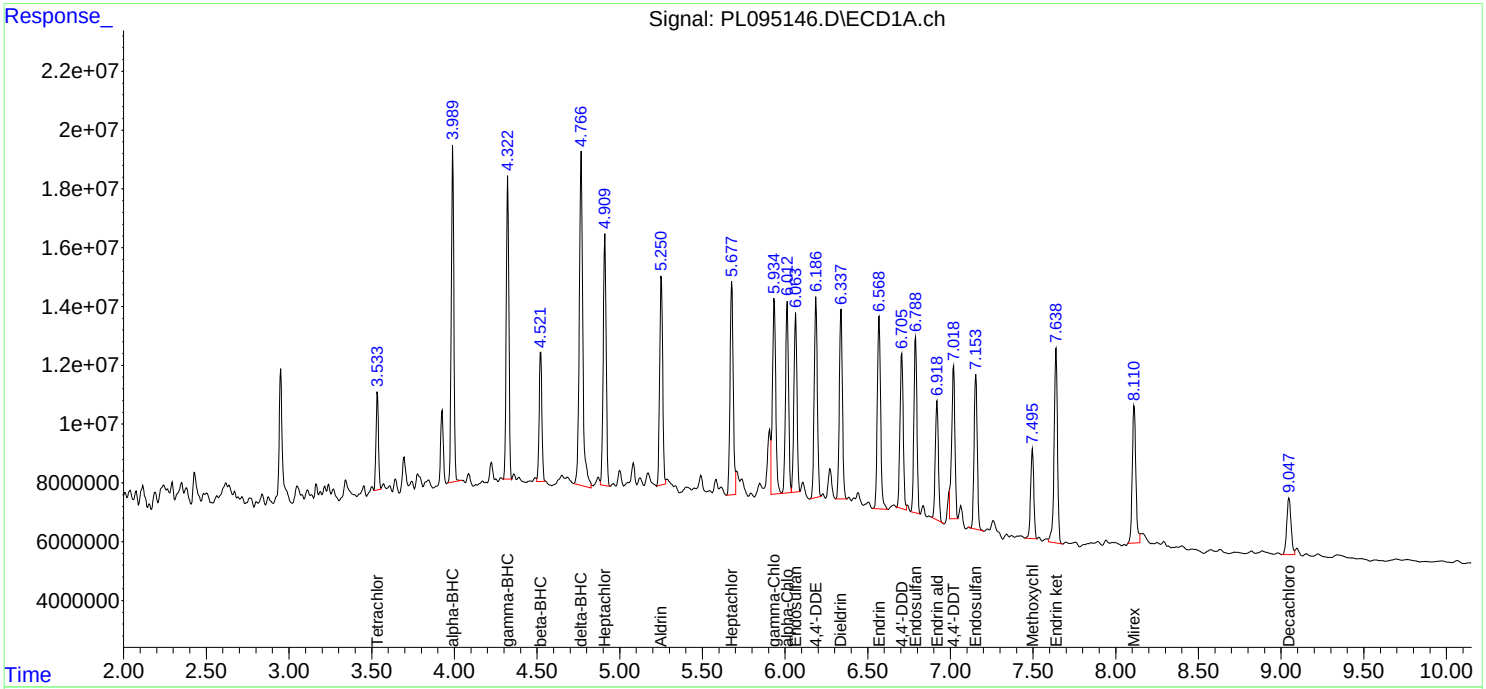
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL040925\
Data File : PL095146.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 19:12
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

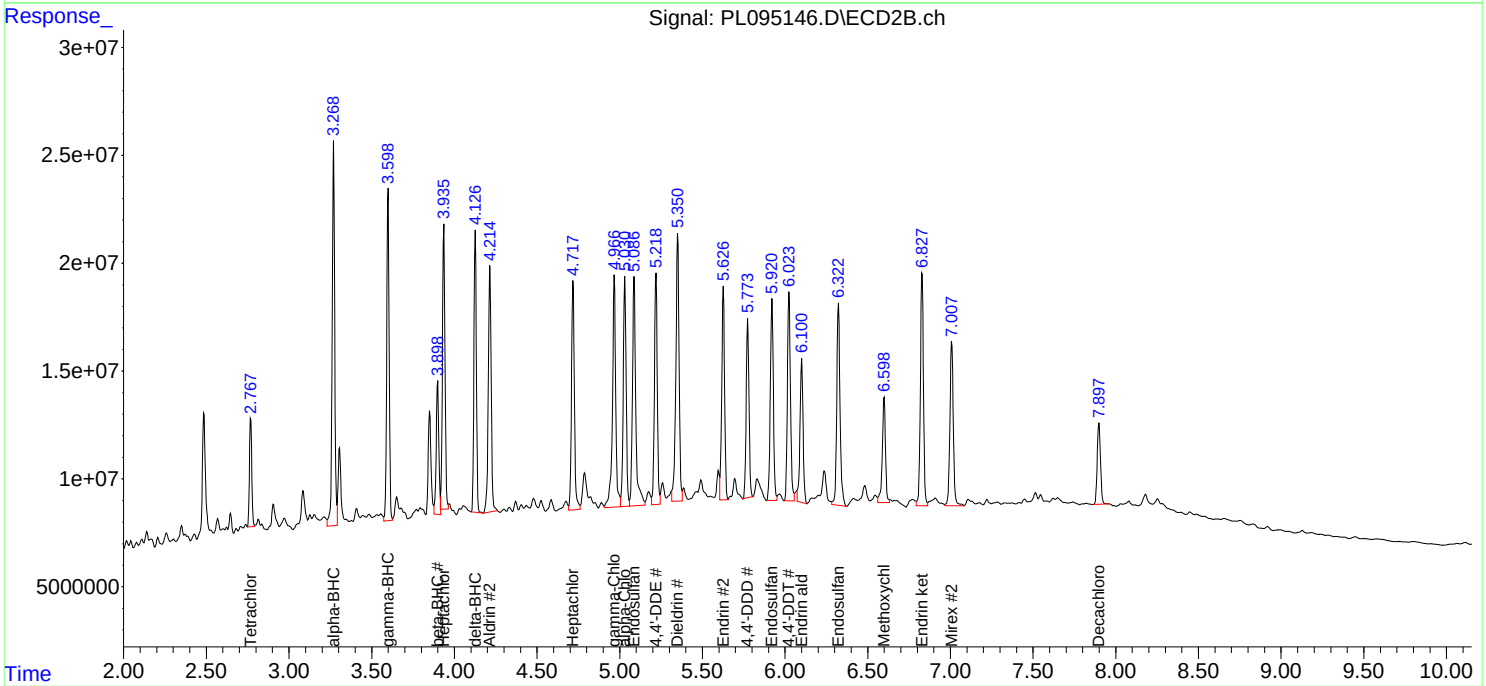
Instrument :
ECD_L
ClientSampleId :
WC-LIQUID-20250404MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 01:25:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL031125.M
Quant Title : GC Extractables
QLast Update : Tue Mar 11 17:42:21 2025
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 x0.25µm





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Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094567.D	4,4"-DDD	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	4,4"-DDD #2	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	Endrin aldehyde	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	Endrin ketone	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
PEM	PL094567.D	Endrin ketone #2	Abdul	3/12/2025 12:46:01 PM	Ankita	3/12/2025 2:34:07	Peak Integrated by Software
RESCHK	PL094568.D	gamma-Chlordane #2	Abdul	3/12/2025 12:46:05 PM	Ankita	3/12/2025 2:34:09	Peak Integrated by Software
PSTDICC100	PL094569.D	Methoxychlor	Abdul	3/12/2025 12:46:08 PM	Ankita	3/12/2025 2:34:10	Peak Integrated by Software
PSTDICC100	PL094569.D	Mirex	Abdul	3/12/2025 12:46:08 PM	Ankita	3/12/2025 2:34:10	Peak Integrated by Software
PSTDICC075	PL094570.D	Mirex	Abdul	3/12/2025 12:46:12 PM	Ankita	3/12/2025 2:34:12	Peak Integrated by Software
PSTDICC005	PL094573.D	4,4"-DDE #2	Abdul	3/12/2025 12:46:16 PM	Ankita	3/12/2025 2:34:14	Peak Integrated by Software
PSTDICC005	PL094573.D	Dieldrin #2	Abdul	3/12/2025 12:46:16 PM	Ankita	3/12/2025 2:34:14	Peak Integrated by Software
PSTDICC005	PL094573.D	Endrin ketone #2	Abdul	3/12/2025 12:46:16 PM	Ankita	3/12/2025 2:34:14	Peak Integrated by Software
PEM	PL094588.D	4,4"-DDD	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL094588.D	4,4"-DDE	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	4,4"-DDE #2	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Endrin	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Endrin aldehyde	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Endrin ketone	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PEM	PL094588.D	Methoxychlor #2	Abdul	3/12/2025 12:46:32 PM	Ankita	3/12/2025 2:34:21	Peak Integrated by Software
PSTDCCC050	PL094589.D	4,4"-DDE #2	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	Dieldrin #2	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	Endrin	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	Endrin #2	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094589.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:46:36 PM	Ankita	3/12/2025 2:34:22	Peak Integrated by Software
PSTDCCC050	PL094598.D	4,4"-DDE	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL094598.D	Endrin	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software
PSTDCCC050	PL094598.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software
PSTDCCC050	PL094598.D	Heptachlor epoxide #2	Abdul	3/12/2025 12:47:00 PM	Ankita	3/12/2025 2:35:02	Peak Integrated by Software
PEM	PL094606.D	4,4"-DDD	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	4,4"-DDE	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	4,4"-DDE #2	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin #2	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin aldehyde	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PEM	PL094606.D	Endrin ketone #2	Abdul	3/12/2025 12:47:20 PM	Ankita	3/12/2025 2:35:07	Peak Integrated by Software
PSTDCCC050	PL094607.D	4,4"-DDE #2	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software
PSTDCCC050	PL094607.D	Dieldrin #2	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software
PSTDCCC050	PL094607.D	Endrin	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software

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

Manual Integration Report

Sequence:	PL031125	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL094607.D	gamma-BHC (Lindane)	Abdul	3/12/2025 12:47:24 PM	Ankita	3/12/2025 2:35:09	Peak Integrated by Software
PSTDCCC050	PL094618.D	4,4"-DDD	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	4,4"-DDE #2	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	Dieldrin #2	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	Endosulfan I #2	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software
PSTDCCC050	PL094618.D	Endrin	Abdul	3/12/2025 12:47:46 PM	Ankita	3/12/2025 2:35:26	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095128.D	4,4"-DDD	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	4,4"-DDE	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	4,4"-DDE #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin aldehyde	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Endrin ketone #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095128.D	Methoxychlor #2	Abdul	4/10/2025 9:01:59 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	4,4"-DDE #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Dieldrin #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endosulfan I #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endosulfan II #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endrin	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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

Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL095129.D	Endrin #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Endrin ketone #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095129.D	Heptachlor epoxide #2	Abdul	4/10/2025 9:02:03 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	4,4"-DDE #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Dieldrin #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Endosulfan II #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Endrin	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095138.D	Endrin #2	Abdul	4/10/2025 9:02:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDD	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDD #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDT	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	4,4"-DDT #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Aldrin	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MS	PL095145.D	beta-BHC	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Decachlorobiphenyl	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Dieldrin #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endosulfan I #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endosulfan II #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endosulfan Sulfate	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endrin aldehyde #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Endrin ketone	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	gamma-Chlordane #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Heptachlor #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Heptachlor epoxide	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Methoxychlor #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MS	PL095145.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MS	PL095145.D	Tetrachloro-m-xylene #2	Abdul	4/10/2025 9:02:54 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	4,4"-DDT	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	4,4"-DDT #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Aldrin	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	beta-BHC	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	beta-BHC #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Decachlorobiphenyl	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Dieldrin #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Endosulfan II #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Endrin aldehyde #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Heptachlor #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Heptachlor epoxide	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Methoxychlor #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MSD	PL095146.D	Mirex	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1739-02MSD	PL095146.D	Tetrachloro-m-xylene #2	Abdul	4/10/2025 9:02:58 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	4,4"-DDE	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	4,4"-DDE #2	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	Endrin	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	Endrin aldehyde	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PEM	PL095148.D	Endrin ketone #2	Abdul	4/10/2025 9:03:02 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	4,4"-DDE #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Dieldrin #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Endosulfan II #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Endrin ketone #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095149.D	Methoxychlor	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	pl040925	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL095149.D	Mirex #2	Abdul	4/10/2025 9:03:06 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1744-02	PL095158.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:03:21 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
Q1744-04	PL095159.D	Tetrachloro-m-xylene	Abdul	4/10/2025 9:03:26 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	4,4"-DDE #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	alpha-Chlordane #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Dieldrin #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endosulfan I #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endosulfan II #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endrin	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Endrin ketone #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	gamma-Chlordane #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software
PSTDCCC050	PL095163.D	Mirex #2	Abdul	4/10/2025 9:03:38 AM	mohammad	4/11/2025 1:23:20	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL041425	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095203.D	4,4"-DDD	Abdul	4/15/2025 7:50:36 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PEM	PL095203.D	Methoxychlor #2	Abdul	4/15/2025 7:50:36 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PSTDICC100	PL095205.D	Endrin ketone #2	Abdul	4/15/2025 7:50:43 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PSTDICC005	PL095209.D	gamma-Chlordane	Abdul	4/15/2025 7:50:48 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software
PSTDICC005	PL095209.D	Methoxychlor #2	Abdul	4/15/2025 7:50:48 AM	mohammad	4/16/2025 1:08:48	Peak Integrated by Software

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Manual Integration Report

Sequence:	Pl041525	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095225.D	4,4"-DDD	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	4,4"-DDD #2	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Endrin	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Endrin aldehyde	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Endrin ketone #2	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095225.D	Methoxychlor #2	Abdul	4/16/2025 8:38:45 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095226.D	Endrin	Abdul	4/16/2025 8:38:56 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095226.D	Endrin ketone #2	Abdul	4/16/2025 8:38:56 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PB167535BS	PL095232.D	delta-BHC	Abdul	4/16/2025 8:39:15 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095236.D	alpha-BHC #2	Abdul	4/16/2025 8:39:30 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	4,4"-DDD	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	4,4"-DDE	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	4,4"-DDE #2	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software

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Manual Integration Report

Sequence:	PI041525	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL095251.D	Endrin	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PEM	PL095251.D	Endrin aldehyde	Abdul	4/16/2025 8:40:29 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095252.D	delta-BHC	Abdul	4/16/2025 8:40:34 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software
PSTDCCC050	PL095252.D	Endrin	Abdul	4/16/2025 8:40:34 AM	mohammad	4/16/2025 9:16:31	Peak Integrated by Software

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL094565.D	11 Mar 2025 09:41	AR\AJ	Ok
2	I.BLK	PL094566.D	11 Mar 2025 09:55	AR\AJ	Ok
3	PEM	PL094567.D	11 Mar 2025 10:08	AR\AJ	Ok,M
4	RESCHK	PL094568.D	11 Mar 2025 10:22	AR\AJ	Ok,M
5	PSTDICC100	PL094569.D	11 Mar 2025 10:35	AR\AJ	Ok,M
6	PSTDICC075	PL094570.D	11 Mar 2025 10:49	AR\AJ	Ok,M
7	PSTDICC050	PL094571.D	11 Mar 2025 11:02	AR\AJ	Ok
8	PSTDICC025	PL094572.D	11 Mar 2025 11:16	AR\AJ	Ok
9	PSTDICC005	PL094573.D	11 Mar 2025 11:29	AR\AJ	Ok,M
10	PCHLORICC1000	PL094574.D	11 Mar 2025 11:43	AR\AJ	Ok
11	PCHLORICC750	PL094575.D	11 Mar 2025 11:57	AR\AJ	Ok
12	PCHLORICC500	PL094576.D	11 Mar 2025 12:10	AR\AJ	Ok
13	PCHLORICC250	PL094577.D	11 Mar 2025 12:24	AR\AJ	Ok
14	PCHLORICC050	PL094578.D	11 Mar 2025 12:37	AR\AJ	Ok,M
15	PTOXICC1000	PL094579.D	11 Mar 2025 12:51	AR\AJ	Ok
16	PTOXICC750	PL094580.D	11 Mar 2025 13:04	AR\AJ	Ok
17	PTOXICC500	PL094581.D	11 Mar 2025 13:18	AR\AJ	Ok
18	PTOXICC250	PL094582.D	11 Mar 2025 13:31	AR\AJ	Ok,M
19	PTOXICC100	PL094583.D	11 Mar 2025 13:45	AR\AJ	Ok,M
20	PSTDICV050	PL094584.D	11 Mar 2025 13:59	AR\AJ	Ok
21	PCHLORICV500	PL094585.D	11 Mar 2025 14:26	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL094586.D	11 Mar 2025 14:53	AR\AJ	Ok
23	I.BLK	PL094587.D	11 Mar 2025 17:16	AR\AJ	Ok
24	PEM	PL094588.D	11 Mar 2025 17:30	AR\AJ	Ok,M
25	PSTDCCC050	PL094589.D	11 Mar 2025 17:43	AR\AJ	Ok,M
26	PB167076BL	PL094590.D	11 Mar 2025 17:57	AR\AJ	Ok
27	PB167076BS	PL094591.D	11 Mar 2025 18:11	AR\AJ	Ok,M
28	PB167076BSD	PL094592.D	11 Mar 2025 18:44	AR\AJ	Ok,M
29	Q1494-01	PL094593.D	11 Mar 2025 18:57	AR\AJ	Not Ok
30	Q1502-11	PL094594.D	11 Mar 2025 19:11	AR\AJ	Not Ok
31	Q1502-09	PL094595.D	11 Mar 2025 19:25	AR\AJ	Dilution
32	Q1502-13	PL094596.D	11 Mar 2025 19:39	AR\AJ	Not Ok
33	I.BLK	PL094597.D	11 Mar 2025 19:52	AR\AJ	Ok
34	PSTDCCC050	PL094598.D	11 Mar 2025 20:06	AR\AJ	Ok,M
35	Q1539-01	PL094599.D	11 Mar 2025 20:33	AR\AJ	Ok,M
36	Q1539-02	PL094600.D	11 Mar 2025 20:47	AR\AJ	Ok,M
37	PB167086BL	PL094601.D	11 Mar 2025 21:01	AR\AJ	Ok
38	PB167086BS	PL094602.D	11 Mar 2025 21:14	AR\AJ	Not Ok
39	PB167087BL	PL094603.D	11 Mar 2025 21:28	AR\AJ	Ok
40	PB167087BS	PL094604.D	11 Mar 2025 21:42	AR\AJ	Not Ok
41	I.BLK	PL094605.D	11 Mar 2025 21:55	AR\AJ	Ok
42	PEM	PL094606.D	11 Mar 2025 22:09	AR\AJ	Ok,M
43	PSTDCCC050	PL094607.D	11 Mar 2025 22:23	AR\AJ	Ok,M
44	PB167077BL	PL094608.D	11 Mar 2025 22:50	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	PB167077BS	PL094609.D	11 Mar 2025 23:04	AR\AJ	Not Ok
46	Q1534-01	PL094610.D	11 Mar 2025 23:17	AR\AJ	Ok,M
47	Q1534-07	PL094611.D	11 Mar 2025 23:31	AR\AJ	Ok,M
48	Q1534-07MS	PL094612.D	11 Mar 2025 23:44	AR\AJ	Ok,M
49	Q1534-07MSD	PL094613.D	11 Mar 2025 23:58	AR\AJ	Ok,M
50	Q1534-13	PL094614.D	12 Mar 2025 00:11	AR\AJ	Dilution
51	Q1534-19	PL094615.D	12 Mar 2025 00:25	AR\AJ	Dilution
52	Q1535-01	PL094616.D	12 Mar 2025 00:39	AR\AJ	Ok,M
53	I.BLK	PL094617.D	12 Mar 2025 00:53	AR\AJ	Ok
54	PSTDCCC050	PL094618.D	12 Mar 2025 01:06	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095126.D	09 Apr 2025 08:16	AR\AJ	Ok
2	I.BLK	PL095127.D	09 Apr 2025 08:29	AR\AJ	Ok
3	PEM	PL095128.D	09 Apr 2025 08:43	AR\AJ	Ok,M
4	PSTDCCC050	PL095129.D	09 Apr 2025 08:57	AR\AJ	Ok,M
5	PB167473BS	PL095130.D	09 Apr 2025 11:03	AR\AJ	Ok,M
6	PB167523BL	PL095131.D	09 Apr 2025 12:28	AR\AJ	Ok
7	PB167523BS	PL095132.D	09 Apr 2025 14:50	AR\AJ	Ok,M
8	Q1748-01	PL095133.D	09 Apr 2025 15:41	AR\AJ	Ok,M
9	Q1748-05	PL095134.D	09 Apr 2025 15:54	AR\AJ	Ok,M
10	Q1754-01	PL095135.D	09 Apr 2025 16:08	AR\AJ	Ok,M
11	Q1754-03	PL095136.D	09 Apr 2025 16:22	AR\AJ	Ok,M
12	I.BLK	PL095137.D	09 Apr 2025 16:36	AR\AJ	Ok
13	PSTDCCC050	PL095138.D	09 Apr 2025 16:49	AR\AJ	Ok,M
14	Q1749-01	PL095139.D	09 Apr 2025 17:36	AR\AJ	Ok,M
15	Q1752-01	PL095140.D	09 Apr 2025 17:50	AR\AJ	Ok,M
16	Q1752-03	PL095141.D	09 Apr 2025 18:03	AR\AJ	Ok,M
17	Q1752-03MS	PL095142.D	09 Apr 2025 18:17	AR\AJ	Ok,M
18	Q1752-03MSD	PL095143.D	09 Apr 2025 18:31	AR\AJ	Ok,M
19	Q1739-02	PL095144.D	09 Apr 2025 18:45	AR\AJ	Ok,M
20	Q1739-02MS	PL095145.D	09 Apr 2025 18:58	AR\AJ	Ok,M
21	Q1739-02MSD	PL095146.D	09 Apr 2025 19:12	AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	PL095147.D	09 Apr 2025 19:26	AR\AJ	Ok
23	PEM	PL095148.D	09 Apr 2025 19:39	AR\AJ	Ok,M
24	PSTDCCC050	PL095149.D	09 Apr 2025 20:20	AR\AJ	Ok,M
25	Q1752-05	PL095150.D	09 Apr 2025 20:34	AR\AJ	Ok,M
26	Q1752-07	PL095151.D	09 Apr 2025 20:48	AR\AJ	Ok,M
27	Q1753-01	PL095152.D	09 Apr 2025 21:02	AR\AJ	Ok
28	Q1753-05	PL095153.D	09 Apr 2025 21:15	AR\AJ	Ok
29	PB167535BL	PL095154.D	09 Apr 2025 21:29	AR\AJ	Ok
30	PB167535BS	PL095155.D	09 Apr 2025 21:43	AR\AJ	Not Ok
31	PB167488TB	PL095156.D	09 Apr 2025 21:56	AR\AJ	Ok
32	PB167517TB	PL095157.D	09 Apr 2025 22:10	AR\AJ	Ok
33	Q1744-02	PL095158.D	09 Apr 2025 22:24	AR\AJ	Ok,M
34	Q1744-04	PL095159.D	09 Apr 2025 22:38	AR\AJ	Ok,M
35	Q1746-02	PL095160.D	09 Apr 2025 22:51	AR\AJ	Ok,M
36	Q1746-04	PL095161.D	09 Apr 2025 23:05	AR\AJ	Ok,M
37	I.BLK	PL095162.D	09 Apr 2025 23:19	AR\AJ	Ok
38	PSTDCCC050	PL095163.D	09 Apr 2025 23:33	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095201.D	14 Apr 2025 14:12	AR\AJ	Ok
2	I.BLK	PL095202.D	14 Apr 2025 14:26	AR\AJ	Ok
3	PEM	PL095203.D	14 Apr 2025 14:40	AR\AJ	Ok,M
4	RESCHK	PL095204.D	14 Apr 2025 14:54	AR\AJ	Ok
5	PSTDICC100	PL095205.D	14 Apr 2025 15:07	AR\AJ	Ok,M
6	PSTDICC075	PL095206.D	14 Apr 2025 15:21	AR\AJ	Ok
7	PSTDICC050	PL095207.D	14 Apr 2025 15:35	AR\AJ	Ok
8	PSTDICC025	PL095208.D	14 Apr 2025 16:02	AR\AJ	Ok
9	PSTDICC005	PL095209.D	14 Apr 2025 16:15	AR\AJ	Ok,M
10	PCHLORICC1000	PL095210.D	14 Apr 2025 16:29	AR\AJ	Ok
11	PCHLORICC750	PL095211.D	14 Apr 2025 16:43	AR\AJ	Ok
12	PCHLORICC500	PL095212.D	14 Apr 2025 16:56	AR\AJ	Ok
13	PCHLORICC250	PL095213.D	14 Apr 2025 17:10	AR\AJ	Ok
14	PCHLORICC050	PL095214.D	14 Apr 2025 17:24	AR\AJ	Ok
15	PTOXICC1000	PL095215.D	14 Apr 2025 17:38	AR\AJ	Ok
16	PTOXICC750	PL095216.D	14 Apr 2025 17:51	AR\AJ	Ok
17	PTOXICC500	PL095217.D	14 Apr 2025 18:05	AR\AJ	Ok
18	PTOXICC250	PL095218.D	14 Apr 2025 18:19	AR\AJ	Ok,M
19	PTOXICC100	PL095219.D	14 Apr 2025 18:32	AR\AJ	Ok
20	PSTDICV050	PL095220.D	14 Apr 2025 18:46	AR\AJ	Ok
21	PCHLORICV500	PL095221.D	14 Apr 2025 19:00	AR\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL095222.D	14 Apr 2025 19:13	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL095223.D	15 Apr 2025 10:24	AR\AJ	Ok
2	I.BLK	PL095224.D	15 Apr 2025 10:37	AR\AJ	Ok
3	PEM	PL095225.D	15 Apr 2025 10:51	AR\AJ	Ok,M
4	PSTDCCC050	PL095226.D	15 Apr 2025 11:21	AR\AJ	Ok,M
5	Q1784-01	PL095227.D	15 Apr 2025 11:35	AR\AJ	Ok,M
6	Q1783-01	PL095228.D	15 Apr 2025 11:48	AR\AJ	Ok,M
7	Q1792-01	PL095229.D	15 Apr 2025 12:02	AR\AJ	Ok,M
8	PB167576BL	PL095230.D	15 Apr 2025 12:16	AR\AJ	Ok
9	PB167576BS	PL095231.D	15 Apr 2025 12:29	AR\AJ	Not Ok
10	PB167535BS	PL095232.D	15 Apr 2025 13:05	AR\AJ	Ok,M
11	Q1785-01	PL095233.D	15 Apr 2025 13:30	AR\AJ	Ok,M
12	Q1785-03	PL095234.D	15 Apr 2025 13:43	AR\AJ	Ok,M
13	I.BLK	PL095235.D	15 Apr 2025 13:57	AR\AJ	Ok
14	PSTDCCC050	PL095236.D	15 Apr 2025 15:08	AR\AJ	Ok,M
15	PB167576BS	PL095237.D	15 Apr 2025 15:22	AR\AJ	Ok,M
16	Q1787-09	PL095238.D	15 Apr 2025 15:40	AR\AJ	Ok,M
17	Q1787-09MS	PL095239.D	15 Apr 2025 15:53	AR\AJ	Ok,M
18	Q1787-09MSD	PL095240.D	15 Apr 2025 16:07	AR\AJ	Ok,M
19	Q1788-01	PL095241.D	15 Apr 2025 16:21	AR\AJ	Ok,M
20	PB167596BL	PL095242.D	15 Apr 2025 16:35	AR\AJ	Ok
21	PB167596BS	PL095243.D	15 Apr 2025 16:48	AR\AJ	Ok,M

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Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277 ,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1806-01	PL095244.D	15 Apr 2025 17:02	AR\AJ	Ok,M
23	Q1807-01	PL095245.D	15 Apr 2025 17:16	AR\AJ	Ok,M
24	Q1808-01	PL095246.D	15 Apr 2025 17:30	AR\AJ	Ok,M
25	Q1808-01MS	PL095247.D	15 Apr 2025 17:43	AR\AJ	Ok,M
26	Q1808-01MSD	PL095248.D	15 Apr 2025 17:57	AR\AJ	Ok,M
27	Q1808-03	PL095249.D	15 Apr 2025 18:10	AR\AJ	Ok,M
28	I.BLK	PL095250.D	15 Apr 2025 18:38	AR\AJ	Ok
29	PEM	PL095251.D	15 Apr 2025 18:52	AR\AJ	Ok,M
30	PSTDCCC050	PL095252.D	15 Apr 2025 19:05	AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL094565.D	11 Mar 2025 09:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL094566.D	11 Mar 2025 09:55		AR\AJ	Ok
3	PEM	PEM	PL094567.D	11 Mar 2025 10:08		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL094568.D	11 Mar 2025 10:22		AR\AJ	Ok,M
5	PSTDICC100	PSTDICC100	PL094569.D	11 Mar 2025 10:35		AR\AJ	Ok,M
6	PSTDICC075	PSTDICC075	PL094570.D	11 Mar 2025 10:49		AR\AJ	Ok,M
7	PSTDICC050	PSTDICC050	PL094571.D	11 Mar 2025 11:02		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL094572.D	11 Mar 2025 11:16		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL094573.D	11 Mar 2025 11:29		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL094574.D	11 Mar 2025 11:43		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL094575.D	11 Mar 2025 11:57		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL094576.D	11 Mar 2025 12:10		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL094577.D	11 Mar 2025 12:24		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL094578.D	11 Mar 2025 12:37		AR\AJ	Ok,M
15	PTOXICC1000	PTOXICC1000	PL094579.D	11 Mar 2025 12:51		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL094580.D	11 Mar 2025 13:04		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL094581.D	11 Mar 2025 13:18		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL094582.D	11 Mar 2025 13:31		AR\AJ	Ok,M

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Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL094583.D	11 Mar 2025 13:45		AR\AJ	Ok,M
20	PSTDICV050	ICVPL031125	PL094584.D	11 Mar 2025 13:59		AR\AJ	Ok
21	PCHLORICV500	ICVPL031125CHLOR	PL094585.D	11 Mar 2025 14:26		AR\AJ	Ok
22	PTOXICV500	ICVPL031125TOX	PL094586.D	11 Mar 2025 14:53		AR\AJ	Ok
23	I.BLK	I.BLK	PL094587.D	11 Mar 2025 17:16		AR\AJ	Ok
24	PEM	PEM	PL094588.D	11 Mar 2025 17:30		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL094589.D	11 Mar 2025 17:43		AR\AJ	Ok,M
26	PB167076BL	PB167076BL	PL094590.D	11 Mar 2025 17:57		AR\AJ	Ok
27	PB167076BS	PB167076BS	PL094591.D	11 Mar 2025 18:11		AR\AJ	Ok,M
28	PB167076BSD	PB167076BSD	PL094592.D	11 Mar 2025 18:44		AR\AJ	Ok,M
29	Q1494-01	PURGE-WATER	PL094593.D	11 Mar 2025 18:57	F Flag in TCMX for both column	AR\AJ	Not Ok
30	Q1502-11	PT-CHLR-WP	PL094594.D	11 Mar 2025 19:11	Chlordane CCAL missing , TCMX high in 2nd column	AR\AJ	Not Ok
31	Q1502-09	PT-PEST-WP	PL094595.D	11 Mar 2025 19:25	TCMX high in 1st column , Need dilution	AR\AJ	Dilution
32	Q1502-13	PT-TXP-WP	PL094596.D	11 Mar 2025 19:39	TOX CCAL missing , need dilution	AR\AJ	Not Ok
33	I.BLK	I.BLK	PL094597.D	11 Mar 2025 19:52		AR\AJ	Ok
34	PSTDCCC050	PSTDCCC050	PL094598.D	11 Mar 2025 20:06		AR\AJ	Ok,M
35	Q1539-01	TAPIAL3-MW03D-0310	PL094599.D	11 Mar 2025 20:33		AR\AJ	Ok,M
36	Q1539-02	TAPFTA-MW01I-03102	PL094600.D	11 Mar 2025 20:47		AR\AJ	Ok,M

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Daily Analysis Runlog For Sequence/QCBatch ID # PL031125

Review By	Abdul	Review On	3/12/2025 12:48:59 PM		
Supervise By	Ankita	Supervise On	3/12/2025 2:35:44 PM		
SubDirectory	PL031125	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	PB167086BL	PB167086BL	PL094601.D	11 Mar 2025 21:01		AR\AJ	Ok
38	PB167086BS	PB167086BS	PL094602.D	11 Mar 2025 21:14	Chlordane CCAL missing	AR\AJ	Not Ok
39	PB167087BL	PB167087BL	PL094603.D	11 Mar 2025 21:28		AR\AJ	Ok
40	PB167087BS	PB167087BS	PL094604.D	11 Mar 2025 21:42	TOX CCAL missing	AR\AJ	Not Ok
41	I.BLK	I.BLK	PL094605.D	11 Mar 2025 21:55		AR\AJ	Ok
42	PEM	PEM	PL094606.D	11 Mar 2025 22:09		AR\AJ	Ok,M
43	PSTDCCC050	PSTDCCC050	PL094607.D	11 Mar 2025 22:23		AR\AJ	Ok,M
44	PB167077BL	PB167077BL	PL094608.D	11 Mar 2025 22:50		AR\AJ	Ok
45	PB167077BS	PB167077BS	PL094609.D	11 Mar 2025 23:04	Comp#2 recovery fail	AR\AJ	Not Ok
46	Q1534-01	OR-636-COMP-16	PL094610.D	11 Mar 2025 23:17		AR\AJ	Ok,M
47	Q1534-07	OR-636-COMP-17	PL094611.D	11 Mar 2025 23:31		AR\AJ	Ok,M
48	Q1534-07MS	OR-636-COMP-17MS	PL094612.D	11 Mar 2025 23:44		AR\AJ	Ok,M
49	Q1534-07MSD	OR-636-COMP-17MSD	PL094613.D	11 Mar 2025 23:58		AR\AJ	Ok,M
50	Q1534-13	OR-636-COMP-18	PL094614.D	12 Mar 2025 00:11	need dilution	AR\AJ	Dilution
51	Q1534-19	OR-636-COMP-19	PL094615.D	12 Mar 2025 00:25	need dilution	AR\AJ	Dilution
52	Q1535-01	SU-03-03102025	PL094616.D	12 Mar 2025 00:39		AR\AJ	Ok,M
53	I.BLK	I.BLK	PL094617.D	12 Mar 2025 00:53		AR\AJ	Ok
54	PSTDCCC050	PSTDCCC050	PL094618.D	12 Mar 2025 01:06		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095126.D	09 Apr 2025 08:16		AR\AJ	Ok
2	I.BLK	I.BLK	PL095127.D	09 Apr 2025 08:29		AR\AJ	Ok
3	PEM	PEM	PL095128.D	09 Apr 2025 08:43		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL095129.D	09 Apr 2025 08:57		AR\AJ	Ok,M
5	PB167473BS	PB167473BS	PL095130.D	09 Apr 2025 11:03		AR\AJ	Ok,M
6	PB167523BL	PB167523BL	PL095131.D	09 Apr 2025 12:28		AR\AJ	Ok
7	PB167523BS	PB167523BS	PL095132.D	09 Apr 2025 14:50		AR\AJ	Ok,M
8	Q1748-01	IB-1.5-WC	PL095133.D	09 Apr 2025 15:41		AR\AJ	Ok,M
9	Q1748-05	IB-2A-WC	PL095134.D	09 Apr 2025 15:54		AR\AJ	Ok,M
10	Q1754-01	TP-1	PL095135.D	09 Apr 2025 16:08		AR\AJ	Ok,M
11	Q1754-03	TP-1-CONCRETE	PL095136.D	09 Apr 2025 16:22		AR\AJ	Ok,M
12	I.BLK	I.BLK	PL095137.D	09 Apr 2025 16:36		AR\AJ	Ok
13	PSTDCCC050	PSTDCCC050	PL095138.D	09 Apr 2025 16:49		AR\AJ	Ok,M
14	Q1749-01	TP-14	PL095139.D	09 Apr 2025 17:36		AR\AJ	Ok,M
15	Q1752-01	TP-1	PL095140.D	09 Apr 2025 17:50		AR\AJ	Ok,M
16	Q1752-03	TP-2	PL095141.D	09 Apr 2025 18:03		AR\AJ	Ok,M
17	Q1752-03MS	TP-2MS	PL095142.D	09 Apr 2025 18:17		AR\AJ	Ok,M
18	Q1752-03MSD	TP-2MSD	PL095143.D	09 Apr 2025 18:31		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1739-02	WC-LIQUID-20250404	PL095144.D	09 Apr 2025 18:45	TCMX low in both column, confirmed with MS/MSD	AR\AJ	Ok,M
20	Q1739-02MS	WC-LIQUID-20250404M	PL095145.D	09 Apr 2025 18:58	TCMX low in both column , Comp#8,14,20 recovery fail	AR\AJ	Ok,M
21	Q1739-02MSD	WC-LIQUID-20250404M	PL095146.D	09 Apr 2025 19:12	TCMX low in both column , Comp#8,14,20 recovery fail	AR\AJ	Ok,M
22	I.BLK	I.BLK	PL095147.D	09 Apr 2025 19:26		AR\AJ	Ok
23	PEM	PEM	PL095148.D	09 Apr 2025 19:39		AR\AJ	Ok,M
24	PSTDCCC050	PSTDCCC050	PL095149.D	09 Apr 2025 20:20		AR\AJ	Ok,M
25	Q1752-05	TP-4	PL095150.D	09 Apr 2025 20:34		AR\AJ	Ok,M
26	Q1752-07	TP-3	PL095151.D	09 Apr 2025 20:48		AR\AJ	Ok,M
27	Q1753-01	WC-1	PL095152.D	09 Apr 2025 21:02		AR\AJ	Ok
28	Q1753-05	WC-2	PL095153.D	09 Apr 2025 21:15		AR\AJ	Ok
29	PB167535BL	PB167535BL	PL095154.D	09 Apr 2025 21:29		AR\AJ	Ok
30	PB167535BS	PB167535BS	PL095155.D	09 Apr 2025 21:43	All surrogate fail , Comp#16,20 recovery fail	AR\AJ	Not Ok
31	PB167488TB	PB167488TB	PL095156.D	09 Apr 2025 21:56		AR\AJ	Ok
32	PB167517TB	PB167517TB	PL095157.D	09 Apr 2025 22:10		AR\AJ	Ok
33	Q1744-02	B-158-SB01	PL095158.D	09 Apr 2025 22:24		AR\AJ	Ok,M
34	Q1744-04	B-158-SB02	PL095159.D	09 Apr 2025 22:38		AR\AJ	Ok,M
35	Q1746-02	B-149-SB01	PL095160.D	09 Apr 2025 22:51		AR\AJ	Ok,M
36	Q1746-04	B-149-SB02	PL095161.D	09 Apr 2025 23:05		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL040925

Review By	Abdul	Review On	4/10/2025 9:04:04 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:20 AM		
SubDirectory	PL040925	HP Acquire Method		HP Processing Method	pl031125 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	I.BLK	I.BLK	PL095162.D	09 Apr 2025 23:19		AR\AJ	Ok
38	PSTDCCC050	PSTDCCC050	PL095163.D	09 Apr 2025 23:33		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095201.D	14 Apr 2025 14:12		AR\AJ	Ok
2	I.BLK	I.BLK	PL095202.D	14 Apr 2025 14:26		AR\AJ	Ok
3	PEM	PEM	PL095203.D	14 Apr 2025 14:40		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL095204.D	14 Apr 2025 14:54		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL095205.D	14 Apr 2025 15:07		AR\AJ	Ok,M
6	PSTDICC075	PSTDICC075	PL095206.D	14 Apr 2025 15:21		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL095207.D	14 Apr 2025 15:35		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL095208.D	14 Apr 2025 16:02		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL095209.D	14 Apr 2025 16:15		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL095210.D	14 Apr 2025 16:29		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL095211.D	14 Apr 2025 16:43		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL095212.D	14 Apr 2025 16:56		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL095213.D	14 Apr 2025 17:10		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL095214.D	14 Apr 2025 17:24		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL095215.D	14 Apr 2025 17:38		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL095216.D	14 Apr 2025 17:51		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL095217.D	14 Apr 2025 18:05		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL095218.D	14 Apr 2025 18:19		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041425

Review By	Abdul	Review On	4/15/2025 7:51:14 AM		
Supervise By	mohammad	Supervise On	4/16/2025 1:08:48 AM		
SubDirectory	PL041425	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL095219.D	14 Apr 2025 18:32		AR\AJ	Ok
20	PSTDICV050	ICVPL041425	PL095220.D	14 Apr 2025 18:46		AR\AJ	Ok
21	PCHLORICV500	ICVPL041425CHLOR	PL095221.D	14 Apr 2025 19:00		AR\AJ	Ok
22	PTOXICV500	ICVPL041425TOX	PL095222.D	14 Apr 2025 19:13		AR\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL095223.D	15 Apr 2025 10:24		AR\AJ	Ok
2	I.BLK	I.BLK	PL095224.D	15 Apr 2025 10:37		AR\AJ	Ok
3	PEM	PEM	PL095225.D	15 Apr 2025 10:51		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL095226.D	15 Apr 2025 11:21		AR\AJ	Ok,M
5	Q1784-01	OR-01-41125	PL095227.D	15 Apr 2025 11:35		AR\AJ	Ok,M
6	Q1783-01	SU-03-41125	PL095228.D	15 Apr 2025 11:48		AR\AJ	Ok,M
7	Q1792-01	TR-05-041125	PL095229.D	15 Apr 2025 12:02		AR\AJ	Ok,M
8	PB167576BL	PB167576BL	PL095230.D	15 Apr 2025 12:16		AR\AJ	Ok
9	PB167576BS	PB167576BS	PL095231.D	15 Apr 2025 12:29	F Flag coming	AR\AJ	Not Ok
10	PB167535BS	PB167535BS	PL095232.D	15 Apr 2025 13:05		AR\AJ	Ok,M
11	Q1785-01	HR-02-041125	PL095233.D	15 Apr 2025 13:30		AR\AJ	Ok,M
12	Q1785-03	HR-03-041125	PL095234.D	15 Apr 2025 13:43		AR\AJ	Ok,M
13	I.BLK	I.BLK	PL095235.D	15 Apr 2025 13:57		AR\AJ	Ok
14	PSTDCCC050	PSTDCCC050	PL095236.D	15 Apr 2025 15:08		AR\AJ	Ok,M
15	PB167576BS	PB167576BS	PL095237.D	15 Apr 2025 15:22		AR\AJ	Ok,M
16	Q1787-09	TP-1	PL095238.D	15 Apr 2025 15:40		AR\AJ	Ok,M
17	Q1787-09MS	TP-1MS	PL095239.D	15 Apr 2025 15:53		AR\AJ	Ok,M
18	Q1787-09MSD	TP-1MSD	PL095240.D	15 Apr 2025 16:07		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL041525

Review By	Abdul	Review On	4/16/2025 8:41:15 AM		
Supervise By	mohammad	Supervise On	4/16/2025 9:16:31 AM		
SubDirectory	PL041525	HP Acquire Method		HP Processing Method	pl041425 8081

STD. NAME	STD REF.#
Tune/Reschk	PP24433,PP24095
Initial Calibration Stds	PP24260,PP24261,PP24262,PP24269,PP24266,PP24267,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24281,PP24282,PP24283,PP24284
CCC	PP24261,PP24273,PP24279,PP24284
Internal Standard/PEM	
ICV/I.BLK	PP24273,PP24279,PP24284
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1788-01	WC-1	PL095241.D	15 Apr 2025 16:21		AR\AJ	Ok,M
20	PB167596BL	PB167596BL	PL095242.D	15 Apr 2025 16:35		AR\AJ	Ok
21	PB167596BS	PB167596BS	PL095243.D	15 Apr 2025 16:48		AR\AJ	Ok,M
22	Q1806-01	OR-03-041425	PL095244.D	15 Apr 2025 17:02		AR\AJ	Ok,M
23	Q1807-01	OK-02-041425	PL095245.D	15 Apr 2025 17:16		AR\AJ	Ok,M
24	Q1808-01	OILY-SOIL-PILE	PL095246.D	15 Apr 2025 17:30		AR\AJ	Ok,M
25	Q1808-01MS	OILY-SOIL-PILEMS	PL095247.D	15 Apr 2025 17:43		AR\AJ	Ok,M
26	Q1808-01MSD	OILY-SOIL-PILEMSD	PL095248.D	15 Apr 2025 17:57		AR\AJ	Ok,M
27	Q1808-03	LAW-25-0060	PL095249.D	15 Apr 2025 18:10		AR\AJ	Ok,M
28	I.BLK	I.BLK	PL095250.D	15 Apr 2025 18:38		AR\AJ	Ok
29	PEM	PEM	PL095251.D	15 Apr 2025 18:52		AR\AJ	Ok,M
30	PSTDCCC050	PSTDCCC050	PL095252.D	15 Apr 2025 19:05		AR\AJ	Ok,M

M : Manual Integration

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TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

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 : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : JZ

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	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JP

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JP 164 Room	JZ 1544
	Preparation Group	Analysis Group

04/09/25

04/09/25 JZ

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TCLP EXTRACTION LOGPAGE

PB167517

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
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

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TCLP Fluid Determination

PB167517

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
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1748 **WorkList ID :** 188805 **Department :** TCLP Extraction **Date :** 04-08-2025 12:17:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1743-04	TP-16	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311
Q1744-02	B-158-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1744-04	B-158-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1745-04	IB-6A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1745-12	IB-6.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1746-02	B-149-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1746-04	B-149-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311
Q1748-04	IB-1.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1748-08	IB-2A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1749-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/07/2025	1311
Q1752-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-04	TP-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-06	TP-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-08	TP-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-04	TP-1-CONCRETE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311

Date/Time 04/08/25 16:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/08/25 18:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167535

SOP ID:	M3510C,3580A-Extraction Pesticide-16				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/09/2025
Matrix :	Water			**Extraction Start Time :**	12:50
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	04/09/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	17:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**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	500 PPB	PP24285
Surrogate	1.0ML	200 PPB	PP24217
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	E3926
Baked Na2SO4	N/A	EP2599
Hexane	N/A	E3877
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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-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
04/09/25	RP (Sat 7am)	Y-P pest IP GB.
17:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167535

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 04/09/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167488TB	PB167488TB	TCLP Pesticide	100	6	ritesh	rajesh	10			SEP-01
PB167517TB	PB167517TB	TCLP Pesticide	100	6	ritesh	rajesh	10			2
PB167535BL	PBLK535	TCLP Pesticide	1000	6	ritesh	rajesh	10			3
PB167535BS	PLCS535	TCLP Pesticide	1000	6	ritesh	rajesh	10			4
Q1739-02	WC-LIQUID-20250404	TCLP Pesticide	100	6	ritesh	rajesh	10	A		5
Q1739-02MS	WC-LIQUID-20250404MS	TCLP Pesticide	100	6	ritesh	rajesh	10	A		6
Q1739-02MSD	WC-LIQUID-20250404MSD	TCLP Pesticide	100	6	ritesh	rajesh	10	A		7
Q1744-02	B-158-SB01	TCLP Pesticide	100	6	ritesh	rajesh	10	A		8
Q1744-04	B-158-SB02	TCLP Pesticide	100	6	ritesh	rajesh	10	A		9
Q1746-02	B-149-SB01	TCLP Pesticide	100	6	ritesh	rajesh	10	A		10
Q1746-04	B-149-SB02	TCLP Pesticide	100	6	ritesh	rajesh	10	A		11

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167467

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
PB167467TB	LEB467	18	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q1712-04	Z-05A	01	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1712-08	TT-7	02	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1719-01	TP-3-1	03	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1719-02	TP-3-2	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1719-03	TP-3-3	05	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-04	TP-3-4	06	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1719-05	TP-3-5	07	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-06	TP-3-6	08	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1719-07	TP-3-7	09	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-08	TP-3-8	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-09	TP-3-9	11	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-2
Q1719-10	TP-3-10	12	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1719-11	TP-3-11	13	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1719-12	TP-3-12	14	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1732-04	TT-8	15	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q1737-02	RT3069	16	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1740-04	TP-20	17	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2

04/07/25
11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167488

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
PB167488TB	LEB488	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.5	N/A

04/07/25
12:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

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
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

04/09/25

12:40

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

LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
			TCLP Pesticide	8081B		04/09/25	04/09/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
			TCLP Pesticide	8081B		04/09/25	04/09/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1744 **Order ID:** Q1744

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071150.D	1	04/08/25 08:11	04/08/25 14:30	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.40	U	4.40	18.9	ug/kg
11104-28-2	Aroclor-1221	4.50	U	4.50	18.9	ug/kg
11141-16-5	Aroclor-1232	4.10	U	4.10	18.9	ug/kg
53469-21-9	Aroclor-1242	4.50	U	4.50	18.9	ug/kg
12672-29-6	Aroclor-1248	6.60	U	6.60	18.9	ug/kg
11097-69-1	Aroclor-1254	3.60	U	3.60	18.9	ug/kg
37324-23-5	Aroclor-1262	5.60	U	5.60	18.9	ug/kg
11100-14-4	Aroclor-1268	4.00	U	4.00	18.9	ug/kg
11096-82-5	Aroclor-1260	3.60	U	3.60	18.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	30.3	*	30 (32) - 150 (144)	151%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.3		30 (32) - 150 (175)	116%	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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	56 Decanted:
Sample Wt/Vol:	30.09 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
PP071158.D	1	04/08/25 08:11	04/08/25 17:40	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	7.00	U	7.00	30.3	ug/kg
11104-28-2	Aroclor-1221	7.20	U	7.20	30.3	ug/kg
11141-16-5	Aroclor-1232	6.60	U	6.60	30.3	ug/kg
53469-21-9	Aroclor-1242	7.10	U	7.10	30.3	ug/kg
12672-29-6	Aroclor-1248	10.5	U	10.5	30.3	ug/kg
11097-69-1	Aroclor-1254	5.70	U	5.70	30.3	ug/kg
37324-23-5	Aroclor-1262	8.90	U	8.90	30.3	ug/kg
11100-14-4	Aroclor-1268	6.40	U	6.40	30.3	ug/kg
11096-82-5	Aroclor-1260	5.80	U	5.80	30.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.0		30 (32) - 150 (144)	115%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.9		30 (32) - 150 (175)	84%	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.: Q1744

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-PP070916.D	PIBLK-PP070916.D	Tetrachloro-m-xylene	1	20	18.8	94		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	19.4	97		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	18.1	91		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	23.4	117		70 (60)	130 (140)
I.BLK-PP071140.D	PIBLK-PP071140.D	Tetrachloro-m-xylene	1	20	22.8	114		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	23.9	119		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	23.1	116		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	21.5	108		70 (60)	130 (140)
Q1742-01MS	TR-06-040725MS	Tetrachloro-m-xylene	1	20	18.7	94		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.0	115		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.9	100		30 (32)	150 (175)
Q1742-01MSD	TR-06-040725MSD	Tetrachloro-m-xylene	1	20	17.4	87		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	22.3	112		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	21.2	106		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	20.5	103		30 (32)	150 (175)
Q1744-01	B-158-SB01	Tetrachloro-m-xylene	1	20	24.8	124		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	23.3	116		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	30.3	151	*	30 (32)	150 (144)
		Decachlorobiphenyl	2	20	19.9	99		30 (32)	150 (175)
I.BLK-PP071155.D	PIBLK-PP071155.D	Tetrachloro-m-xylene	1	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.0	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	21.1	105		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	18.4	92		70 (60)	130 (140)
PB167507BL	PB167507BL	Tetrachloro-m-xylene	1	20	26.5	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.9	130		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	27.7	138		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	24.0	120		30 (32)	150 (175)
PB167507BS	PB167507BS	Tetrachloro-m-xylene	1	20	26.3	132		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	25.7	129		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	24.7	123		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	22.6	113		30 (32)	150 (175)
Q1744-03	B-158-SB02	Tetrachloro-m-xylene	1	20	22.8	114		30 (32)	150 (144)
		Decachlorobiphenyl	1	20	16.9	84		30 (32)	150 (175)
		Tetrachloro-m-xylene	2	20	23.0	115		30 (32)	150 (144)
		Decachlorobiphenyl	2	20	15.4	77		30 (32)	150 (175)
I.BLK-PP071168.D	PIBLK-PP071168.D	Tetrachloro-m-xylene	1	20	20.6	103		70 (60)	130 (140)
		Decachlorobiphenyl	1	20	21.0	105		70 (60)	130 (140)
		Tetrachloro-m-xylene	2	20	19.8	99		70 (60)	130 (140)
		Decachlorobiphenyl	2	20	20.1	100		70 (60)	130 (140)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP071147.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**TR-06-040725MS**											
Q1742-01MS	AR1016	189.9	0	176	ug/kg	93				40 (55)	140 (146)	
	AR1260	189.9	0	188	ug/kg	99				40 (31)	140 (146)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **DataFile :** PP071148.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-06-040725MSD**											
Q1742-01MSD	AR1016	189.7	0	173	ug/kg	91		2		40 (55)	140 (146)	30 (20)
	AR1260	189.7	0	177	ug/kg	93		6		40 (31)	140 (146)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8082A **Datafile :** PP071157.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167507BS	AR1016	166.6	181	ug/kg	109				40 (71)	140 (120)	
	AR1260	166.6	188	ug/kg	113				40 (65)	140 (130)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167507BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: PB167507BL Lab File ID: PP071156.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 04/08/2025

Date Analyzed (1): 04/08/2025 Date Analyzed (2): 04/08/2025

Time Analyzed (1): 17:07 Time Analyzed (2): 17:07

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
TR-06-040725MS	Q1742-01MS	PP071147.D	04/08/2025	04/08/2025
TR-06-040725MSD	Q1742-01MSD	PP071148.D	04/08/2025	04/08/2025
B-158-SB01	Q1744-01	PP071150.D	04/08/2025	04/08/2025
PB167507BS	PB167507BS	PP071157.D	04/08/2025	04/08/2025
B-158-SB02	Q1744-03	PP071158.D	04/08/2025	04/08/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167507BL	SDG No.:	Q1744
Lab Sample ID:	PB167507BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PP071156.D	1	04/08/25 08:11	04/08/25 17:07	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.90	U	3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	27.7		30 (32) - 150 (144)	138%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.9		30 (32) - 150 (175)	130%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/27/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/27/25
Client Sample ID:	PIBLK-PP070916.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP070916.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
PP070916.D	1		03/27/25	PP032725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.1		70 (60) - 130 (140)	91%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.4		70 (60) - 130 (140)	97%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071140.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP071140.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
PP071140.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.8		70 (60) - 130 (140)	114%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.5		70 (60) - 130 (140)	108%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071155.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP071155.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
PP071155.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		70 (60) - 130 (140)	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.4		70 (60) - 130 (140)	92%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-PP071168.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PP071168.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
PP071168.D	1		04/08/25	PP040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.097	U	0.097	0.50	ug/L
11104-28-2	Aroclor-1221	0.13	U	0.13	0.50	ug/L
11141-16-5	Aroclor-1232	0.096	U	0.096	0.50	ug/L
53469-21-9	Aroclor-1242	0.12	U	0.12	0.50	ug/L
12672-29-6	Aroclor-1248	0.071	U	0.071	0.50	ug/L
11097-69-1	Aroclor-1254	0.094	U	0.094	0.50	ug/L
11096-82-5	Aroclor-1260	0.081	U	0.081	0.50	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.11	U	0.11	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		70 (60) - 130 (140)	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.1		70 (60) - 130 (140)	100%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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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 2025	Date Received:	
Client Sample ID:	PB167507BS	SDG No.:	Q1744
Lab Sample ID:	PB167507BS	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
PP071157.D	1	04/08/25 08:11	04/08/25 17:23	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	181		3.90	17.0	ug/kg
11104-28-2	Aroclor-1221	4.00	U	4.00	17.0	ug/kg
11141-16-5	Aroclor-1232	3.70	U	3.70	17.0	ug/kg
53469-21-9	Aroclor-1242	4.00	U	4.00	17.0	ug/kg
12672-29-6	Aroclor-1248	5.90	U	5.90	17.0	ug/kg
11097-69-1	Aroclor-1254	3.20	U	3.20	17.0	ug/kg
37324-23-5	Aroclor-1262	5.00	U	5.00	17.0	ug/kg
11100-14-4	Aroclor-1268	3.60	U	3.60	17.0	ug/kg
11096-82-5	Aroclor-1260	188		3.20	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	26.3		30 (32) - 150 (144)	132%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.7		30 (32) - 150 (175)	129%	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:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	TR-06-040725MS	SDG No.:	Q1744
Lab Sample ID:	Q1742-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.6 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
PP071147.D	1	04/08/25 08:11	04/08/25 13:41	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	176		4.50	19.4	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.4	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.4	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.4	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.4	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.4	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.4	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.4	ug/kg
11096-82-5	Aroclor-1260	188		3.70	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		30 (32) - 150 (144)	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.0		30 (32) - 150 (175)	115%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	TR-06-040725MSD	SDG No.:	Q1744
Lab Sample ID:	Q1742-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.6 Decanted:
Sample Wt/Vol:	30.09 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
PP071148.D	1	04/08/25 08:11	04/08/25 13:57	PB167507

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	173		4.50	19.3	ug/kg
11104-28-2	Aroclor-1221	4.60	U	4.60	19.3	ug/kg
11141-16-5	Aroclor-1232	4.20	U	4.20	19.3	ug/kg
53469-21-9	Aroclor-1242	4.60	U	4.60	19.3	ug/kg
12672-29-6	Aroclor-1248	6.70	U	6.70	19.3	ug/kg
11097-69-1	Aroclor-1254	3.70	U	3.70	19.3	ug/kg
37324-23-5	Aroclor-1262	5.70	U	5.70	19.3	ug/kg
11100-14-4	Aroclor-1268	4.10	U	4.10	19.3	ug/kg
11096-82-5	Aroclor-1260	177		3.70	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		30 (32) - 150 (144)	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		30 (32) - 150 (175)	112%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP070917.D RT 750 = PP070918.D

RT 500 = PP070919.D RT 250 = PP070920.D RT 050 = PP070921.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.67	5.67	5.66	5.67	5.67	5.67	5.57	5.77
Aroclor-1016-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1016-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1016-4	(4)	5.85	5.85	5.85	5.85	5.85	5.85	5.75	5.95
Aroclor-1016-5	(5)	6.14	6.14	6.14	6.14	6.14	6.14	6.04	6.24
Aroclor-1260-1	(1)	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
Aroclor-1260-2	(2)	7.51	7.51	7.51	7.51	7.51	7.51	7.41	7.61
Aroclor-1260-3	(3)	7.87	7.87	7.87	7.87	7.87	7.87	7.77	7.97
Aroclor-1260-4	(4)	8.10	8.10	8.09	8.09	8.09	8.09	7.99	8.19
Aroclor-1260-5	(5)	8.41	8.42	8.41	8.41	8.41	8.41	8.31	8.51
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.52	4.51	4.52	4.51	4.51	4.41	4.61
Aroclor-1242-1	(1)	5.67	5.67	5.66	5.67	5.66	5.67	5.57	5.77
Aroclor-1242-2	(2)	5.69	5.69	5.69	5.69	5.69	5.69	5.59	5.79
Aroclor-1242-3	(3)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1242-4	(4)	5.85	5.85	5.85	5.85	5.84	5.85	5.75	5.95
Aroclor-1242-5	(5)	6.58	6.58	6.58	6.58	6.57	6.58	6.48	6.68
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.51	4.51	4.51	4.51	4.41	4.61
Aroclor-1248-1	(1)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1248-2	(2)	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Aroclor-1248-3	(3)	6.14	6.14	6.14	6.14	6.14	6.14	6.04	6.24
Aroclor-1248-4	(4)	6.54	6.54	6.54	6.54	6.54	6.54	6.44	6.64
Aroclor-1248-5	(5)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.51	4.52	4.51	4.51	4.41	4.61
Aroclor-1254-1	(1)	6.52	6.52	6.52	6.52	6.52	6.52	6.42	6.62
Aroclor-1254-2	(2)	6.73	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Aroclor-1254-3	(3)	7.10	7.09	7.10	7.10	7.10	7.10	7.00	7.20
Aroclor-1254-4	(4)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1254-5	(5)	7.79	7.79	7.79	7.79	7.79	7.79	7.69	7.89
Decachlorobiphenyl		10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene		4.51	4.51	4.51	4.51	4.52	4.51	4.41	4.61
Aroclor-1268-1	(1)	8.73	8.73	8.73	8.73	8.73	8.73	8.63	8.83
Aroclor-1268-2	(2)	8.82	8.82	8.82	8.82	8.82	8.82	8.72	8.92
Aroclor-1268-3	(3)	9.06	9.06	9.05	9.06	9.05	9.06	8.96	9.16
Aroclor-1268-4	(4)	9.47	9.47	9.47	9.47	9.47	9.47	9.37	9.57
Aroclor-1268-5	(5)	9.89	9.89	9.89	9.89	9.89	9.89	9.79	9.99

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.23	10.23	10.23	10.23	10.23	10.23	10.13	10.33
Tetrachloro-m-xylene	4.52	4.51	4.51	4.52	4.51	4.51	4.41	4.61

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Fax : 908 789 8922

RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PP070917.D RT 750 = PP070918.D

RT 500 = PP070919.D RT 250 = PP070920.D RT 050 = PP070921.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1016-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-3	(3)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1016-4	(4)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1016-5	(5)	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Aroclor-1260-1	(1)	6.39	6.39	6.39	6.39	6.39	6.39	6.29	6.49
Aroclor-1260-2	(2)	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Aroclor-1260-3	(3)	6.73	6.73	6.73	6.73	6.73	6.73	6.63	6.83
Aroclor-1260-4	(4)	7.20	7.20	7.21	7.21	7.21	7.20	7.10	7.30
Aroclor-1260-5	(5)	7.45	7.44	7.45	7.45	7.45	7.45	7.35	7.55
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1242-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1242-2	(2)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-3	(3)	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Aroclor-1242-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1242-5	(5)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1248-1	(1)	4.90	4.90	4.90	4.90	4.90	4.90	4.80	5.00
Aroclor-1248-2	(2)	5.14	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Aroclor-1248-3	(3)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-4	(4)	5.36	5.36	5.36	5.36	5.35	5.36	5.26	5.46
Aroclor-1248-5	(5)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1254-1	(1)	5.71	5.71	5.71	5.71	5.71	5.71	5.61	5.81
Aroclor-1254-2	(2)	5.86	5.86	5.86	5.86	5.86	5.86	5.76	5.96
Aroclor-1254-3	(3)	6.26	6.26	6.26	6.26	6.26	6.26	6.16	6.36
Aroclor-1254-4	(4)	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Aroclor-1254-5	(5)	6.91	6.91	6.91	6.91	6.91	6.91	6.81	7.01
Decachlorobiphenyl		8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene		3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92
Aroclor-1268-1	(1)	7.73	7.73	7.73	7.73	7.73	7.73	7.63	7.83
Aroclor-1268-2	(2)	7.80	7.80	7.79	7.79	7.79	7.79	7.69	7.89
Aroclor-1268-3	(3)	8.00	8.00	8.00	8.00	8.00	8.00	7.90	8.10
Aroclor-1268-4	(4)	8.30	8.29	8.29	8.30	8.29	8.29	8.19	8.39
Aroclor-1268-5	(5)	8.60	8.60	8.60	8.60	8.60	8.60	8.50	8.70

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.86	8.86	8.86	8.86	8.86	8.86	8.76	8.96
Tetrachloro-m-xylene	3.82	3.82	3.82	3.82	3.82	3.82	3.72	3.92

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PP070917.D **CF 750 =** PP070918.D

CF 500 = PP070919.D **CF 250 =** PP070920.D **CF 050 =** PP070921.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	47478014	49171687	50934060	54324668	52347880	50851262	5
Aroclor-1016-2	(2)	72483549	74568483	78811172	80433884	83971080	78053634	6
Aroclor-1016-3	(3)	43541298	44043953	46815864	48849960	52621940	47174603	7
Aroclor-1016-4	(4)	36661280	36602855	39014928	39212148	32287440	36755730	7
Aroclor-1016-5	(5)	32204227	33487635	35040682	36610940	32217200	33912137	5
Aroclor-1260-1	(1)	60625379	62238407	66823960	72729028	73347280	67152811	8
Aroclor-1260-2	(2)	90805769	95497569	97808710	102858984	93710780	96136362	4
Aroclor-1260-3	(3)	75946924	78957439	82970652	86114216	75601760	79918198	5
Aroclor-1260-4	(4)	67190656	75020355	81451428	78145636	91876440	78736903	11
Aroclor-1260-5	(5)	154592706	156108101	159960800	166857288	156911780	158886135	3
Decachlorobiphenyl		1019047430	1065730867	1116449000	1115108760	946747800	1052616771	7
Tetrachloro-m-xylene		1424837400	1461405720	1519248320	1595716440	1306667000	1461574976	7
Aroclor-1242-1	(1)	40990074	42746281	43432670	43984636	48732080	43977148	6
Aroclor-1242-2	(2)	64704598	63862937	67024876	68850388	57138840	64316328	7
Aroclor-1242-3	(3)	39349869	38048504	39702972	40627540	47468380	41039453	9
Aroclor-1242-4	(4)	30814559	31466187	32277086	32194644	25864220	30523339	8
Aroclor-1242-5	(5)	36006298	34981232	37334376	38560396	35669740	36510408	4
Decachlorobiphenyl		1036298130	1063489027	1106293120	1153452680	1056566000	1083219791	4
Tetrachloro-m-xylene		1443947330	1507747640	1537397120	1567165920	1326698400	1476591282	6
Aroclor-1248-1	(1)	31141042	33379292	33781538	45988760	37146900	36287506	15
Aroclor-1248-2	(2)	42399779	44979081	46192256	47122176	43999640	44938586	4
Aroclor-1248-3	(3)	48055172	50777464	51825052	50697180	51832600	50637494	3
Aroclor-1248-4	(4)	59878410	63471275	67039892	73429036	56919340	64147591	9
Aroclor-1248-5	(5)	56652876	60504408	64286140	68519384	54268440	60846250	9
Decachlorobiphenyl		1072017300	1124462173	1205136680	1167091680	1109917800	1135725127	5
Tetrachloro-m-xylene		1462181050	1544091280	1549039360	1559485200	1464932600	1515945898	3
Aroclor-1254-1	(1)	60157506	63067431	65471886	66806416	66447920	64390232	4
Aroclor-1254-2	(2)	92838442	97047215	101802392	105556104	108208740	101090579	6
Aroclor-1254-3	(3)	92334650	98055471	99416554	103841140	104991280	99727819	5
Aroclor-1254-4	(4)	84238161	87780547	86802510	88788836	85373700	86596751	2
Aroclor-1254-5	(5)	74433164	79038301	80854650	83958584	83470140	80350968	5
Decachlorobiphenyl		1095432410	1144692320	1168417220	1194330360	1035516600	1127677782	6
Tetrachloro-m-xylene		1501288360	1551275560	1575746420	1626904120	1301718600	1511386612	8
Aroclor-1268-1	(1)	226575551	237927453	239660032	247892192	225482800	235507606	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	190380276	198934901	200232346	204948924	182079900	195315269	4
Aroclor-1268-3	(3)	163648333	171737784	173955356	177246576	167979860	170913582	3
Aroclor-1268-4	(4)	70377008	73665913	73237284	74802952	61652780	70747187	7
Aroclor-1268-5	(5)	459553484	481598519	482514296	498456744	458756600	476175929	3
Decachlorobiphenyl		1956984350	2055290840	2095781900	2171413960	2007035400	2057301290	4
Tetrachloro-m-xylene		1523485290	1594639080	1607574540	1645012520	1440121400	1562166566	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_P **Calibration Date(s):** 03/27/2025 03/27/2025

Calibration Times: 10:30 17:53

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PP070917.D **CF 750 =** PP070918.D

CF 500 = PP070919.D **CF 250 =** PP070920.D **CF 050 =** PP070921.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	34208953	37661787	37955886	45294856	45319420	40088180	12
Aroclor-1016-2	(2)	49610574	53393839	54380778	65503040	66437080	57865062	12
Aroclor-1016-3	(3)	27000462	29732755	29849058	35508136	32526120	30923306	10
Aroclor-1016-4	(4)	21229955	23465415	23793788	28635320	24655080	24355912	10
Aroclor-1016-5	(5)	26939544	29893109	30154374	37292184	37326660	32321174	14
Aroclor-1260-1	(1)	45249076	46519276	48240522	56226688	59796020	51206316	12
Aroclor-1260-2	(2)	58475471	61260192	62904038	69183788	67145740	63793846	6
Aroclor-1260-3	(3)	50913622	52312629	53920638	58739540	56547700	54486826	5
Aroclor-1260-4	(4)	42366044	44395528	47488628	49955128	54926140	47826294	10
Aroclor-1260-5	(5)	113066934	116639771	125312810	127263128	140268800	124510289	8
Decachlorobiphenyl		793547960	846236520	865016160	753569280	682611000	788196184	9
Tetrachloro-m-xylene		926488500	1023245573	1036748080	1124812280	1071924800	1036643847	7
Aroclor-1242-1	(1)	30391529	31772724	34649408	38698720	35466820	34195840	9
Aroclor-1242-2	(2)	43879042	45075739	49434800	55503780	52395240	49257720	9
Aroclor-1242-3	(3)	24103124	24630729	26618958	29833472	28035100	26644277	8
Aroclor-1242-4	(4)	23086538	23159225	25581538	28618736	31445140	26378235	13
Aroclor-1242-5	(5)	28647762	29235153	31558738	32962404	32387440	30958299	6
Decachlorobiphenyl		794686010	779465320	775544600	851493360	677466800	775731218	8
Tetrachloro-m-xylene		994474400	1020857307	1119824860	1120535680	1106593200	1072457089	6
Aroclor-1248-1	(1)	23297586	26737011	28501250	29207540	27656520	27079981	8
Aroclor-1248-2	(2)	31071420	35918237	38274460	38702620	39645560	36722459	9
Aroclor-1248-3	(3)	32592570	37701093	39964120	40477712	42561380	38659375	9
Aroclor-1248-4	(4)	38114246	43411732	47181776	48244244	48753000	45141000	9
Aroclor-1248-5	(5)	37031094	41115012	43925318	46634268	44688040	42678746	8
Decachlorobiphenyl		763432400	822192813	827097300	806313080	732328400	790272799	5
Tetrachloro-m-xylene		969522160	1045815880	1138159760	1084071480	1169729800	1081459816	7
Aroclor-1254-1	(1)	58928147	61799583	66082486	73787844	69490960	66017804	8
Aroclor-1254-2	(2)	50145967	53786207	56793554	64034708	60730300	57098147	9
Aroclor-1254-3	(3)	77448562	83642240	87764778	99090376	86260880	86841367	9
Aroclor-1254-4	(4)	49998215	54614948	55966900	64174348	55747980	56100478	9
Aroclor-1254-5	(5)	65979008	71358709	71825896	82425644	69163880	72150627	8
Decachlorobiphenyl		783483810	796181933	910832540	850283840	759277600	820011945	7
Tetrachloro-m-xylene		1042595600	1091536387	1108578240	1195164040	1067355200	1101045893	5
Aroclor-1268-1	(1)	165356134	175541800	174753666	176934688	164423820	171402022	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	137801505	147739099	145758868	146778256	138336660	143282878	3
Aroclor-1268-3	(3)	120132746	127507232	124391202	127247744	116467620	123149309	4
Aroclor-1268-4	(4)	51096977	54505272	53344994	55689972	49428660	52813175	5
Aroclor-1268-5	(5)	357060145	376226307	370949858	366544744	338563340	361868879	4
Decachlorobiphenyl		1484820890	1579158933	1563503220	1620729960	1432317200	1536106041	5
Tetrachloro-m-xylene		1051289840	1118865693	1118283520	1183542080	1260888000	1146573827	7

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_P **Date(s) Analyzed:** 03/27/2025 03/27/2025

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.72	4.62	4.82	17353700
		2	4.80	4.70	4.90	12952900
		3	4.88	4.78	4.98	41717200
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.88	4.78	4.98	33288800
		2	5.41	5.31	5.51	15910300
		3	5.69	5.59	5.79	34270400
		4	5.85	5.75	5.95	15707600
		5	5.94	5.84	6.04	10640400
Aroclor-1262	500	1	8.09	7.99	8.19	106300000
		2	8.41	8.31	8.51	198383000
		3	8.73	8.63	8.83	131742000
		4	8.82	8.72	8.92	95614800
		5	9.47	9.37	9.57	65066400

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_P **Date(s) Analyzed:** 03/27/2025 03/27/2025

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.03	3.93	4.13	15243600
		2	4.11	4.01	4.21	11436300
		3	4.19	4.09	4.29	34089000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.19	4.09	4.29	27986800
		2	4.92	4.82	5.02	28061200
		3	5.10	5.00	5.20	14889600
		4	5.19	5.09	5.29	12804400
		5	5.36	5.26	5.46	14174800
Aroclor-1262	500	1	6.95	6.85	7.05	85563600
		2	7.21	7.11	7.31	68464400
		3	7.73	7.63	7.83	60723600
		4	7.79	7.69	7.89	99406800
		5	8.29	8.19	8.39	46871600

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 09:37 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.68	5.66	5.56	5.76	-0.02
Aroclor-1016-2	(2)	5.70	5.69	5.59	5.79	-0.01
Aroclor-1016-3	(3)	5.76	5.75	5.65	5.85	-0.01
Aroclor-1016-4	(4)	5.86	5.85	5.75	5.95	-0.01
Aroclor-1016-5	(5)	6.15	6.14	6.04	6.24	-0.01
Aroclor-1260-1	(1)	7.27	7.26	7.16	7.36	-0.01
Aroclor-1260-2	(2)	7.53	7.51	7.41	7.61	-0.02
Aroclor-1260-3	(3)	7.89	7.87	7.77	7.97	-0.02
Aroclor-1260-4	(4)	8.11	8.09	7.99	8.19	-0.02
Aroclor-1260-5	(5)	8.43	8.41	8.31	8.51	-0.02
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	-0.01
Decachlorobiphenyl		10.26	10.23	10.13	10.33	-0.03

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 09:37 **Initial Calibration Time(s):** 10:30 17:53

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)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.74	6.73	6.63	6.83	-0.01
Aroclor-1260-4	(4)	7.21	7.21	7.11	7.31	0.00
Aroclor-1260-5	(5)	7.45	7.45	7.35	7.55	0.00
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071136.D **Time Analyzed:** 09:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.679	5.563	5.763	504.230	500.000	0.8
Aroclor-1016-2	5.700	5.585	5.785	472.510	500.000	-5.5
Aroclor-1016-3	5.763	5.648	5.848	488.820	500.000	-2.2
Aroclor-1016-4	5.861	5.745	5.945	525.740	500.000	5.1
Aroclor-1016-5	6.154	6.038	6.238	539.860	500.000	8.0
Aroclor-1260-1	7.273	7.156	7.356	518.030	500.000	3.6
Aroclor-1260-2	7.527	7.410	7.610	536.780	500.000	7.4
Aroclor-1260-3	7.885	7.768	7.968	503.360	500.000	0.7
Aroclor-1260-4	8.109	7.992	8.192	501.370	500.000	0.3
Aroclor-1260-5	8.431	8.311	8.511	506.740	500.000	1.3
Decachlorobiphenyl	10.255	10.125	10.325	51.060	50.000	2.1
Tetrachloro-m-xylene	4.524	4.412	4.612	51.340	50.000	2.7

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071136.D **Time Analyzed:** 09:37

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.904	4.803	5.003	491.030	500.000	-1.8
Aroclor-1016-2	4.923	4.822	5.022	483.510	500.000	-3.3
Aroclor-1016-3	5.101	4.999	5.199	522.710	500.000	4.5
Aroclor-1016-4	5.142	5.041	5.241	542.480	500.000	8.5
Aroclor-1016-5	5.357	5.255	5.455	530.130	500.000	6.0
Aroclor-1260-1	6.393	6.292	6.492	547.620	500.000	9.5
Aroclor-1260-2	6.582	6.480	6.680	534.460	500.000	6.9
Aroclor-1260-3	6.735	6.634	6.834	546.870	500.000	9.4
Aroclor-1260-4	7.207	7.105	7.305	489.720	500.000	-2.1
Aroclor-1260-5	7.448	7.346	7.546	462.070	500.000	-7.6
Decachlorobiphenyl	8.862	8.759	8.959	43.790	50.000	-12.4
Tetrachloro-m-xylene	3.817	3.716	3.916	47.940	50.000	-4.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 15:29 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.66	5.56	5.76	-0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.76	5.75	5.65	5.85	-0.01
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.15	6.14	6.04	6.24	-0.01
Aroclor-1260-1	(1)	7.27	7.26	7.16	7.36	0.00
Aroclor-1260-2	(2)	7.52	7.51	7.41	7.61	-0.01
Aroclor-1260-3	(3)	7.88	7.87	7.77	7.97	-0.01
Aroclor-1260-4	(4)	8.10	8.09	7.99	8.19	-0.01
Aroclor-1260-5	(5)	8.42	8.41	8.31	8.51	-0.01
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	-0.01
Decachlorobiphenyl		10.24	10.23	10.13	10.33	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 15:29 **Initial Calibration Time(s):** 10:30 17:53

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)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.36	5.36	5.26	5.46	0.00
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.73	6.73	6.63	6.83	0.00
Aroclor-1260-4	(4)	7.20	7.21	7.11	7.31	0.01
Aroclor-1260-5	(5)	7.45	7.45	7.35	7.55	0.00
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071151.D **Time Analyzed:** 15:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.671	5.563	5.763	484.620	500.000	-3.1
Aroclor-1016-2	5.692	5.585	5.785	482.920	500.000	-3.4
Aroclor-1016-3	5.755	5.648	5.848	470.770	500.000	-5.8
Aroclor-1016-4	5.852	5.745	5.945	505.800	500.000	1.2
Aroclor-1016-5	6.146	6.038	6.238	510.370	500.000	2.1
Aroclor-1260-1	7.265	7.156	7.356	508.140	500.000	1.6
Aroclor-1260-2	7.519	7.410	7.610	516.880	500.000	3.4
Aroclor-1260-3	7.879	7.768	7.968	504.190	500.000	0.8
Aroclor-1260-4	8.103	7.992	8.192	470.830	500.000	-5.8
Aroclor-1260-5	8.424	8.311	8.511	486.490	500.000	-2.7
Decachlorobiphenyl	10.243	10.125	10.325	49.190	50.000	-1.6
Tetrachloro-m-xylene	4.516	4.412	4.612	50.490	50.000	1.0

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071151.D **Time Analyzed:** 15:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.902	4.803	5.003	520.460	500.000	4.1
Aroclor-1016-2	4.921	4.822	5.022	507.900	500.000	1.6
Aroclor-1016-3	5.098	4.999	5.199	543.550	500.000	8.7
Aroclor-1016-4	5.140	5.041	5.241	556.220	500.000	11.2
Aroclor-1016-5	5.355	5.255	5.455	535.660	500.000	7.1
Aroclor-1260-1	6.390	6.292	6.492	521.040	500.000	4.2
Aroclor-1260-2	6.579	6.480	6.680	514.470	500.000	2.9
Aroclor-1260-3	6.732	6.634	6.834	529.510	500.000	5.9
Aroclor-1260-4	7.204	7.105	7.305	494.430	500.000	-1.1
Aroclor-1260-5	7.446	7.346	7.546	448.730	500.000	-10.3
Decachlorobiphenyl	8.859	8.759	8.959	40.800	50.000	-18.4
Tetrachloro-m-xylene	3.816	3.716	3.916	47.690	50.000	-4.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 20:28 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	5.67	5.66	5.56	5.76	-0.01
Aroclor-1016-2	(2)	5.69	5.69	5.59	5.79	0.00
Aroclor-1016-3	(3)	5.75	5.75	5.65	5.85	0.00
Aroclor-1016-4	(4)	5.85	5.85	5.75	5.95	0.00
Aroclor-1016-5	(5)	6.14	6.14	6.04	6.24	0.00
Aroclor-1260-1	(1)	7.26	7.26	7.16	7.36	0.00
Aroclor-1260-2	(2)	7.52	7.51	7.41	7.61	-0.01
Aroclor-1260-3	(3)	7.88	7.87	7.77	7.97	-0.01
Aroclor-1260-4	(4)	8.10	8.09	7.99	8.19	-0.01
Aroclor-1260-5	(5)	8.42	8.41	8.31	8.51	-0.01
Tetrachloro-m-xylene		4.52	4.51	4.41	4.61	0.00
Decachlorobiphenyl		10.24	10.23	10.13	10.33	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/08/2025 **Initial Calibration Date(s):** 03/27/2025 03/27/2025

Continuing Calib Time: 20:28 **Initial Calibration Time(s):** 10:30 17:53

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.90	4.90	4.80	5.00	0.00
Aroclor-1016-2	(2)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-3	(3)	5.10	5.10	5.00	5.20	0.00
Aroclor-1016-4	(4)	5.14	5.14	5.04	5.24	0.00
Aroclor-1016-5	(5)	5.35	5.36	5.26	5.46	0.01
Aroclor-1260-1	(1)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-2	(2)	6.58	6.58	6.48	6.68	0.00
Aroclor-1260-3	(3)	6.73	6.73	6.63	6.83	0.00
Aroclor-1260-4	(4)	7.20	7.21	7.11	7.31	0.01
Aroclor-1260-5	(5)	7.44	7.45	7.35	7.55	0.01
Tetrachloro-m-xylene		3.82	3.82	3.72	3.92	0.00
Decachlorobiphenyl		8.86	8.86	8.76	8.96	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071164.D **Time Analyzed:** 20:28

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.669	5.563	5.763	499.770	500.000	0.0
Aroclor-1016-2	5.691	5.585	5.785	486.450	500.000	-2.7
Aroclor-1016-3	5.753	5.648	5.848	487.290	500.000	-2.5
Aroclor-1016-4	5.851	5.745	5.945	522.270	500.000	4.5
Aroclor-1016-5	6.144	6.038	6.238	525.330	500.000	5.1
Aroclor-1260-1	7.263	7.156	7.356	533.550	500.000	6.7
Aroclor-1260-2	7.517	7.410	7.610	536.350	500.000	7.3
Aroclor-1260-3	7.876	7.768	7.968	517.550	500.000	3.5
Aroclor-1260-4	8.100	7.992	8.192	501.150	500.000	0.2
Aroclor-1260-5	8.420	8.311	8.511	506.710	500.000	1.3
Decachlorobiphenyl	10.239	10.125	10.325	50.140	50.000	0.3
Tetrachloro-m-xylene	4.515	4.412	4.612	50.290	50.000	0.6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 03/27/2025 03/27/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/08/2025

Lab Sample No.: AR1660CCC500 **Data File :** PP071164.D **Time Analyzed:** 20:28

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.901	4.803	5.003	472.560	500.000	-5.5
Aroclor-1016-2	4.919	4.822	5.022	457.460	500.000	-8.5
Aroclor-1016-3	5.096	4.999	5.199	490.060	500.000	-2.0
Aroclor-1016-4	5.139	5.041	5.241	496.520	500.000	-0.7
Aroclor-1016-5	5.353	5.255	5.455	471.190	500.000	-5.8
Aroclor-1260-1	6.389	6.292	6.492	508.230	500.000	1.6
Aroclor-1260-2	6.578	6.480	6.680	502.080	500.000	0.4
Aroclor-1260-3	6.730	6.634	6.834	507.090	500.000	1.4
Aroclor-1260-4	7.202	7.105	7.305	484.720	500.000	-3.1
Aroclor-1260-5	7.444	7.346	7.546	440.870	500.000	-11.8
Decachlorobiphenyl	8.857	8.759	8.959	43.280	50.000	-13.4
Tetrachloro-m-xylene	3.815	3.716	3.916	46.910	50.000	-6.2

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_P

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/27/2025 03/27/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/27/2025	10:14	PP070916.D	10.23	4.51
AR1660ICC1000	AR1660ICC1000	03/27/2025	10:30	PP070917.D	10.23	4.51
AR1660ICC750	AR1660ICC750	03/27/2025	10:47	PP070918.D	10.23	4.52
AR1660ICC500	AR1660ICC500	03/27/2025	11:03	PP070919.D	10.23	4.51
AR1660ICC250	AR1660ICC250	03/27/2025	11:19	PP070920.D	10.23	4.52
AR1660ICC050	AR1660ICC050	03/27/2025	11:35	PP070921.D	10.23	4.51
AR1221ICC500	AR1221ICC500	03/27/2025	11:52	PP070922.D	10.23	4.52
AR1232ICC500	AR1232ICC500	03/27/2025	12:11	PP070923.D	10.23	4.52
AR1242ICC1000	AR1242ICC1000	03/27/2025	12:28	PP070924.D	10.23	4.51
AR1242ICC750	AR1242ICC750	03/27/2025	12:44	PP070925.D	10.23	4.51
AR1242ICC500	AR1242ICC500	03/27/2025	13:00	PP070926.D	10.23	4.51
AR1242ICC250	AR1242ICC250	03/27/2025	13:16	PP070927.D	10.23	4.51
AR1242ICC050	AR1242ICC050	03/27/2025	13:33	PP070928.D	10.23	4.51
AR1248ICC1000	AR1248ICC1000	03/27/2025	13:49	PP070929.D	10.23	4.51
AR1248ICC750	AR1248ICC750	03/27/2025	14:05	PP070930.D	10.23	4.51
AR1248ICC500	AR1248ICC500	03/27/2025	14:22	PP070931.D	10.23	4.51
AR1248ICC250	AR1248ICC250	03/27/2025	14:38	PP070932.D	10.23	4.52
AR1248ICC050	AR1248ICC050	03/27/2025	14:55	PP070933.D	10.23	4.51
AR1254ICC1000	AR1254ICC1000	03/27/2025	15:11	PP070934.D	10.23	4.51
AR1254ICC750	AR1254ICC750	03/27/2025	15:27	PP070935.D	10.23	4.51
AR1254ICC500	AR1254ICC500	03/27/2025	15:43	PP070936.D	10.23	4.51
AR1254ICC250	AR1254ICC250	03/27/2025	16:00	PP070937.D	10.23	4.51
AR1254ICC050	AR1254ICC050	03/27/2025	16:16	PP070938.D	10.23	4.52
AR1262ICC500	AR1262ICC500	03/27/2025	16:32	PP070939.D	10.23	4.51
AR1268ICC1000	AR1268ICC1000	03/27/2025	16:48	PP070940.D	10.23	4.52
AR1268ICC750	AR1268ICC750	03/27/2025	17:05	PP070941.D	10.23	4.51
AR1268ICC500	AR1268ICC500	03/27/2025	17:21	PP070942.D	10.23	4.51
AR1268ICC250	AR1268ICC250	03/27/2025	17:37	PP070943.D	10.23	4.52
AR1268ICC050	AR1268ICC050	03/27/2025	17:53	PP070944.D	10.23	4.51
AR1660CCC500	AR1660CCC500	04/08/2025	09:37	PP071136.D	10.26	4.52
I.BLK	I.BLK	04/08/2025	11:05	PP071140.D	10.25	4.52
TR-06-040725MS	Q1742-01MS	04/08/2025	13:41	PP071147.D	10.24	4.51
TR-06-040725MSD	Q1742-01MSD	04/08/2025	13:57	PP071148.D	10.25	4.52
B-158-SB01	Q1744-01	04/08/2025	14:30	PP071150.D	10.24	4.52
AR1660CCC500	AR1660CCC500	04/08/2025	15:29	PP071151.D	10.24	4.52
I.BLK	I.BLK	04/08/2025	16:51	PP071155.D	10.24	4.52
PB167507BL	PB167507BL	04/08/2025	17:07	PP071156.D	10.24	4.52
PB167507BS	PB167507BS	04/08/2025	17:23	PP071157.D	10.24	4.52
B-158-SB02	Q1744-03	04/08/2025	17:40	PP071158.D	10.24	4.52
AR1660CCC500	AR1660CCC500	04/08/2025	20:28	PP071164.D	10.24	4.52
I.BLK	I.BLK	04/08/2025	22:05	PP071168.D	10.24	4.52

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Analytical Sequence

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_P

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/27/2025 03/27/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	03/27/2025	10:14	PP070916.D	8.86	3.82
AR1660ICC1000	AR1660ICC1000	03/27/2025	10:30	PP070917.D	8.86	3.82
AR1660ICC750	AR1660ICC750	03/27/2025	10:47	PP070918.D	8.86	3.82
AR1660ICC500	AR1660ICC500	03/27/2025	11:03	PP070919.D	8.86	3.82
AR1660ICC250	AR1660ICC250	03/27/2025	11:19	PP070920.D	8.86	3.82
AR1660ICC050	AR1660ICC050	03/27/2025	11:35	PP070921.D	8.86	3.82
AR1221ICC500	AR1221ICC500	03/27/2025	11:52	PP070922.D	8.86	3.82
AR1232ICC500	AR1232ICC500	03/27/2025	12:11	PP070923.D	8.86	3.82
AR1242ICC1000	AR1242ICC1000	03/27/2025	12:28	PP070924.D	8.86	3.82
AR1242ICC750	AR1242ICC750	03/27/2025	12:44	PP070925.D	8.86	3.82
AR1242ICC500	AR1242ICC500	03/27/2025	13:00	PP070926.D	8.86	3.82
AR1242ICC250	AR1242ICC250	03/27/2025	13:16	PP070927.D	8.86	3.82
AR1242ICC050	AR1242ICC050	03/27/2025	13:33	PP070928.D	8.86	3.82
AR1248ICC1000	AR1248ICC1000	03/27/2025	13:49	PP070929.D	8.86	3.82
AR1248ICC750	AR1248ICC750	03/27/2025	14:05	PP070930.D	8.86	3.82
AR1248ICC500	AR1248ICC500	03/27/2025	14:22	PP070931.D	8.86	3.82
AR1248ICC250	AR1248ICC250	03/27/2025	14:38	PP070932.D	8.86	3.82
AR1248ICC050	AR1248ICC050	03/27/2025	14:55	PP070933.D	8.86	3.82
AR1254ICC1000	AR1254ICC1000	03/27/2025	15:11	PP070934.D	8.86	3.82
AR1254ICC750	AR1254ICC750	03/27/2025	15:27	PP070935.D	8.86	3.82
AR1254ICC500	AR1254ICC500	03/27/2025	15:43	PP070936.D	8.86	3.82
AR1254ICC250	AR1254ICC250	03/27/2025	16:00	PP070937.D	8.86	3.82
AR1254ICC050	AR1254ICC050	03/27/2025	16:16	PP070938.D	8.86	3.82
AR1262ICC500	AR1262ICC500	03/27/2025	16:32	PP070939.D	8.86	3.82
AR1268ICC1000	AR1268ICC1000	03/27/2025	16:48	PP070940.D	8.86	3.82
AR1268ICC750	AR1268ICC750	03/27/2025	17:05	PP070941.D	8.86	3.82
AR1268ICC500	AR1268ICC500	03/27/2025	17:21	PP070942.D	8.86	3.82
AR1268ICC250	AR1268ICC250	03/27/2025	17:37	PP070943.D	8.86	3.82
AR1268ICC050	AR1268ICC050	03/27/2025	17:53	PP070944.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	09:37	PP071136.D	8.86	3.82
I.BLK	I.BLK	04/08/2025	11:05	PP071140.D	8.86	3.82
TR-06-040725MS	Q1742-01MS	04/08/2025	13:41	PP071147.D	8.86	3.82
TR-06-040725MSD	Q1742-01MSD	04/08/2025	13:57	PP071148.D	8.86	3.82
B-158-SB01	Q1744-01	04/08/2025	14:30	PP071150.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	15:29	PP071151.D	8.86	3.82
I.BLK	I.BLK	04/08/2025	16:51	PP071155.D	8.86	3.82
PB167507BL	PB167507BL	04/08/2025	17:07	PP071156.D	8.86	3.82
PB167507BS	PB167507BS	04/08/2025	17:23	PP071157.D	8.86	3.82
B-158-SB02	Q1744-03	04/08/2025	17:40	PP071158.D	8.86	3.82
AR1660CCC500	AR1660CCC500	04/08/2025	20:28	PP071164.D	8.86	3.82
I.BLK	I.BLK	04/08/2025	22:05	PP071168.D	8.86	3.82

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Analytical Sequence

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TR-06-040725MS

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: Q1742-01MS Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071147.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.67	5.62	5.72	172		
	2	5.692	5.642	5.742	160		
	3	5.754	5.704	5.804	165		
COLUMN 1	4	5.852	5.802	5.902	214		
	5	6.145	6.095	6.195	170	176	
	1	4.902	4.852	4.952	167		
	2	4.921	4.871	4.971	160		
	3	5.097	5.047	5.147	171		
	4	5.14	5.09	5.19	176		
COLUMN 2	5	5.354	5.304	5.404	170	169	4.06
Aroclor-1260	1	7.265	7.215	7.315	215		
	2	7.519	7.469	7.569	213		
	3	7.878	7.828	7.928	163		
COLUMN 1	4	8.103	8.053	8.153	175		
	5	8.423	8.373	8.473	176	188	
	1	6.39	6.34	6.44	196		
	2	6.579	6.529	6.629	188		
	3	6.732	6.682	6.782	191		
	4	7.204	7.154	7.254	156		
COLUMN 2	5	7.445	7.395	7.495	143	175	7.16

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

TR-06-040725MSD

Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: Q1742-01MSD Date(s) Analyzed: 04/08/2025 04/08/2025

Instrument ID (1): ECD_P Instrument ID (2): ECD_P

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PP071148.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.673	5.623	5.723	169		
	2	5.695	5.645	5.745	157		
	3	5.758	5.708	5.808	162		
COLUMN 1	4	5.855	5.805	5.905	210		
	5	6.148	6.098	6.198	164	172	
	1	4.902	4.852	4.952	171		
	2	4.921	4.871	4.971	164		
	3	5.098	5.048	5.148	175		
	4	5.14	5.09	5.19	182		
COLUMN 2	5	5.355	5.305	5.405	174	173	0.58
Aroclor-1260	1	7.269	7.219	7.319	207		
	2	7.522	7.472	7.572	200		
	3	7.881	7.831	7.931	152		
COLUMN 1	4	8.106	8.056	8.156	161		
	5	8.426	8.376	8.476	165	177	
	1	6.391	6.341	6.441	188		
	2	6.579	6.529	6.629	181		
	3	6.733	6.683	6.783	183		
	4	7.205	7.155	7.255	146		
COLUMN 2	5	7.445	7.395	7.495	137	167	5.81

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
PB167507BS

Contract: PORT06
Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744
Lab Sample ID: PB167507BS Date(s) Analyzed: 04/08/2025 04/08/2025
Instrument ID (1): ECD_P Instrument ID (2): ECD_P
GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)
Data file PP071157.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	5.672	5.622	5.722	178		
	2	5.694	5.644	5.744	179		
	3	5.757	5.707	5.807	178		
COLUMN 1	4	5.854	5.804	5.904	189		
	5	6.147	6.097	6.197	184	181	
	1	4.902	4.852	4.952	170		
	2	4.92	4.87	4.97	166		
	3	5.098	5.048	5.148	176		
	4	5.139	5.089	5.189	189		
COLUMN 2	5	5.354	5.304	5.404	179	176	2.8
Aroclor-1260	1	7.267	7.217	7.317	189		
	2	7.521	7.471	7.571	199		
	3	7.88	7.83	7.93	159		
COLUMN 1	4	8.105	8.055	8.155	162		
	5	8.425	8.375	8.475	158	173	
	1	6.39	6.34	6.44	205		
	2	6.578	6.528	6.628	202		
	3	6.731	6.681	6.781	209		
	4	7.203	7.153	7.253	169		
COLUMN 2	5	7.445	7.395	7.495	156	188	8.31

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071150.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 14:30
Operator : YP\AJ
Sample : Q1744-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-158-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 15:39:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.516	3.815	36248933	31402835	24.801	30.293
2)	SA Decachlor...	10.244	8.859	24486285	15643655	23.262	19.847
	Target Compounds						

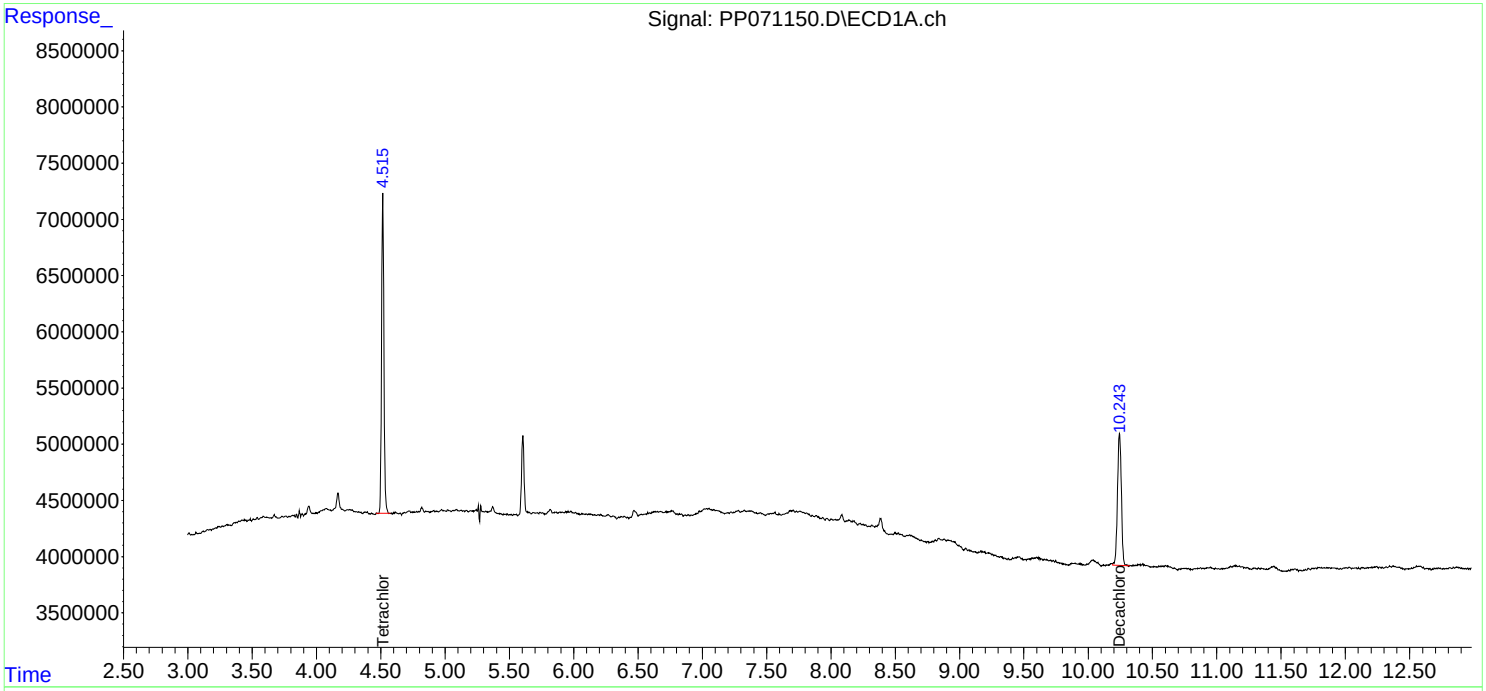
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

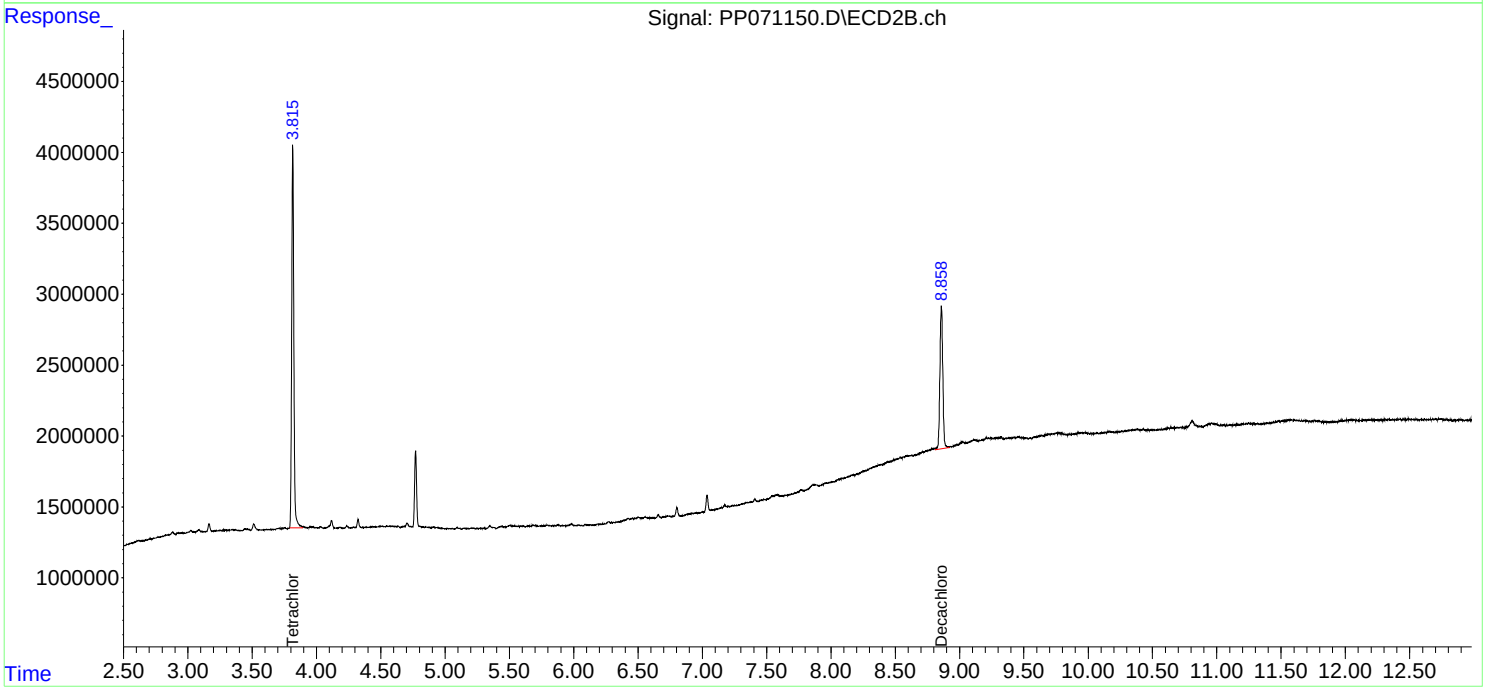
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071150.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 14:30
Operator : YP\AJ
Sample : Q1744-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

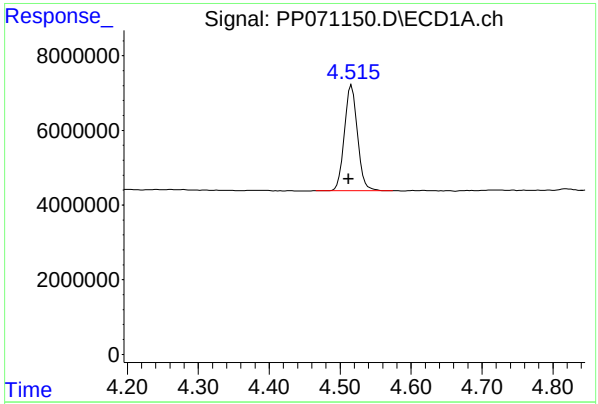
Instrument :
ECD_P
ClientSampleId :
B-158-SB01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 15:39:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



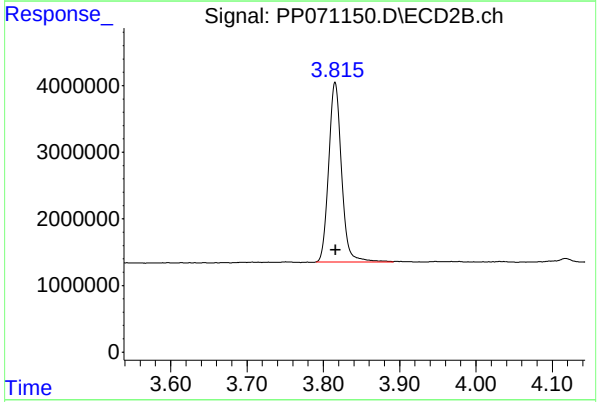




#1 Tetrachloro-m-xylene

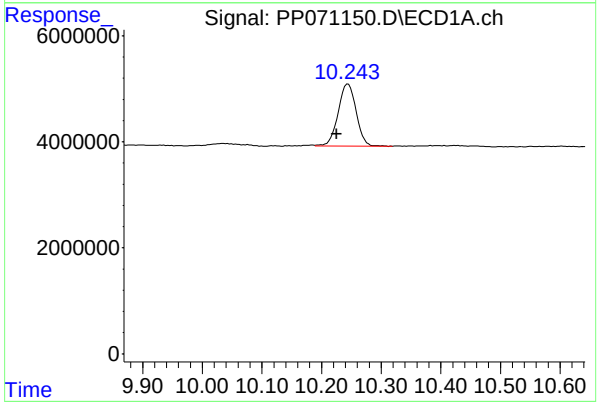
R.T.: 4.516 min
Delta R.T.: 0.004 min
Response: 36248933
Conc: 24.80 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-158-SB01



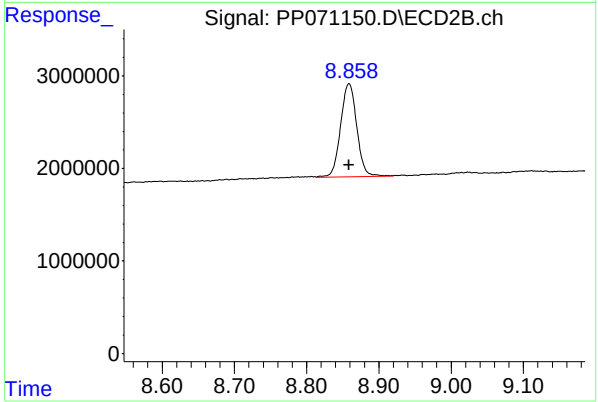
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 31402835
Conc: 30.29 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.244 min
Delta R.T.: 0.019 min
Response: 24486285
Conc: 23.26 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.859 min
Delta R.T.: 0.000 min
Response: 15643655
Conc: 19.85 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:40
Operator : YP\AJ
Sample : Q1744-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
B-158-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:25:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.515	3.815	33298055	23846716	22.782	23.004
2)	SA Decachlor...	10.241	8.857	17779952	12163887	16.891	15.433
	Target Compounds						

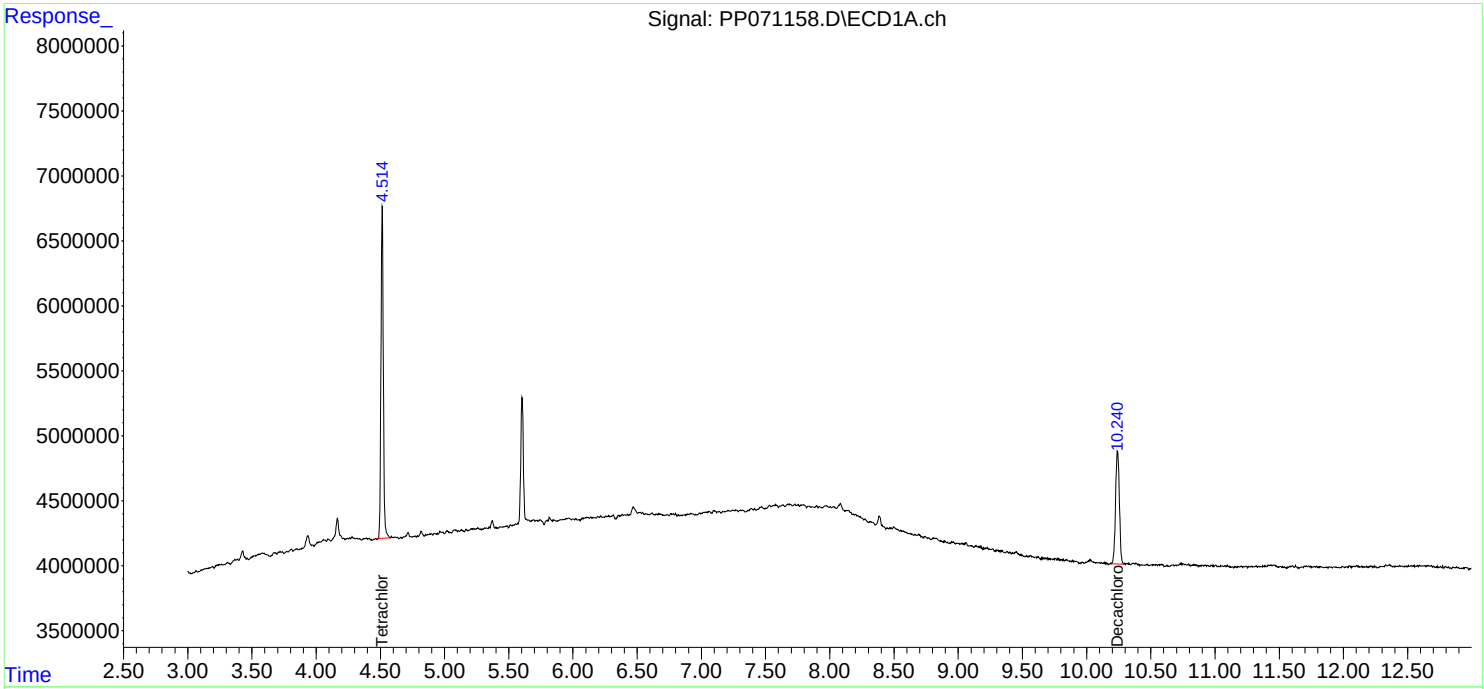
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

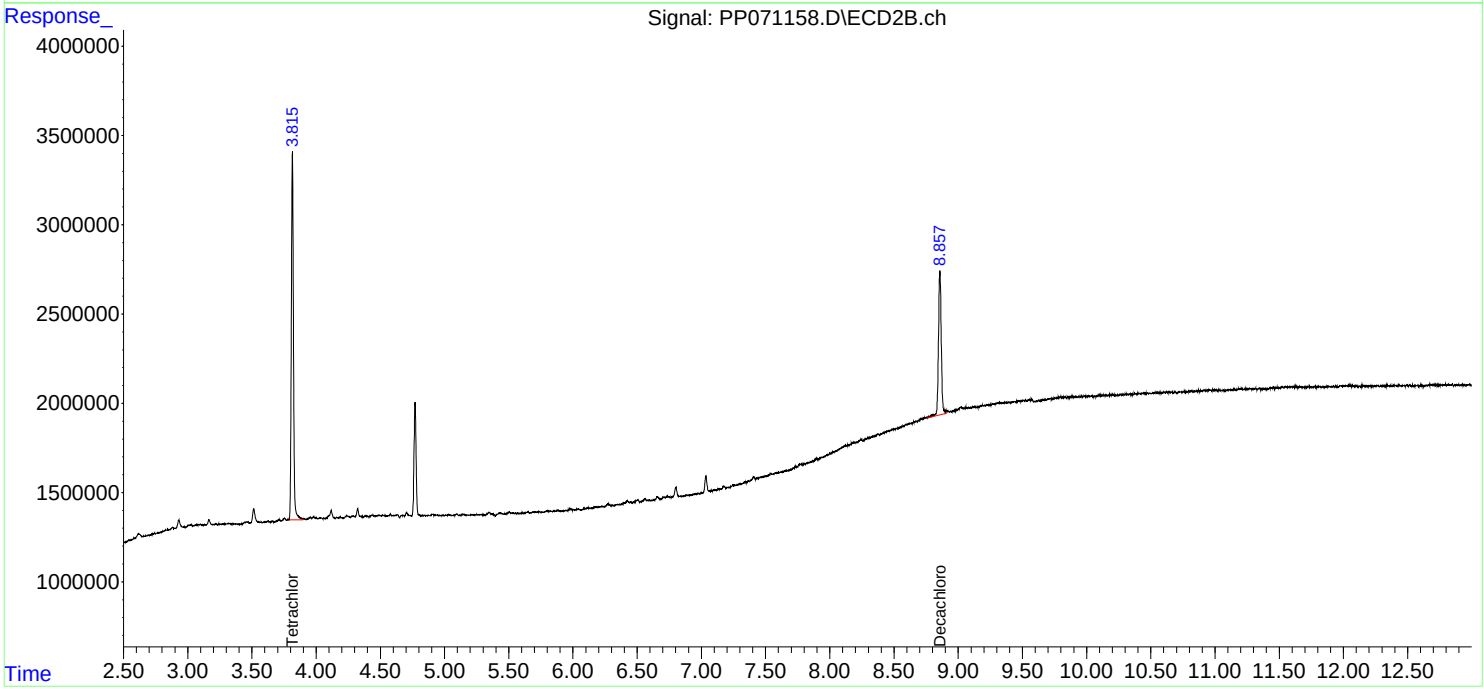
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:40
Operator : YP\AJ
Sample : Q1744-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

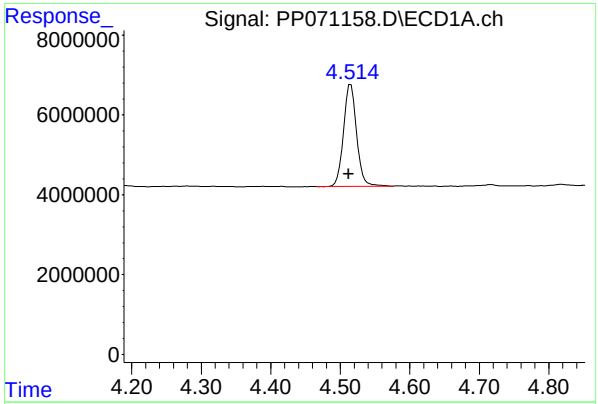
Instrument :
ECD_P
ClientSampleId :
B-158-SB02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:25:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



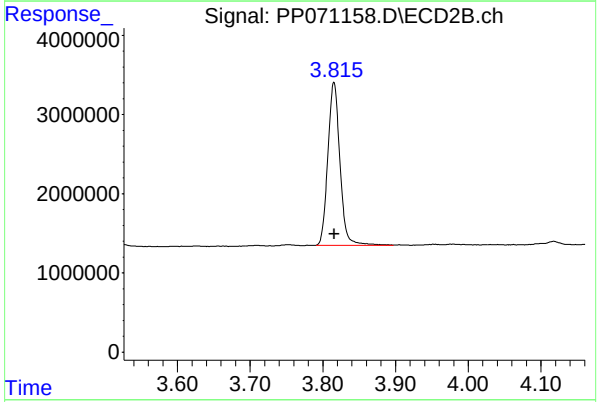




#1 Tetrachloro-m-xylene

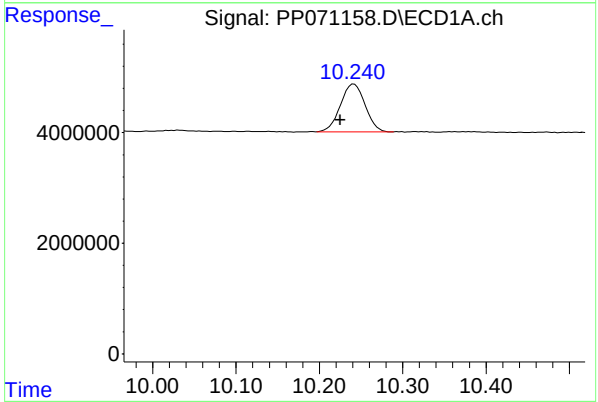
R.T.: 4.515 min
Delta R.T.: 0.003 min
Response: 33298055
Conc: 22.78 ng/ml

Instrument :
ECD_P
ClientSampleId :
B-158-SB02



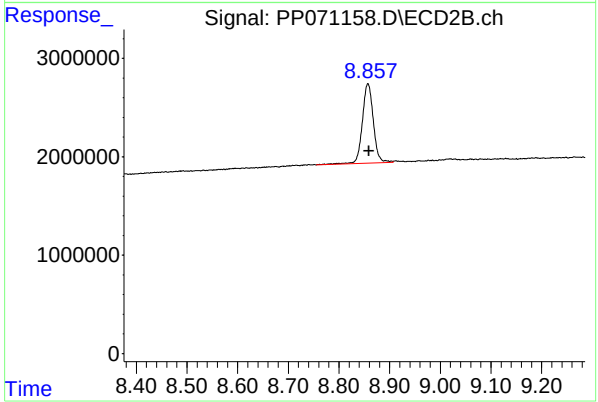
#1 Tetrachloro-m-xylene

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 23846716
Conc: 23.00 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.241 min
Delta R.T.: 0.016 min
Response: 17779952
Conc: 16.89 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.857 min
Delta R.T.: -0.002 min
Response: 12163887
Conc: 15.43 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:07
Operator : YP\AJ
Sample : PB167507BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.516	3.816	38682818	28677374	26.467	27.664
2)	SA Decachlor...	10.242	8.858	27306872	18887758	25.942	23.963
	Target Compounds						

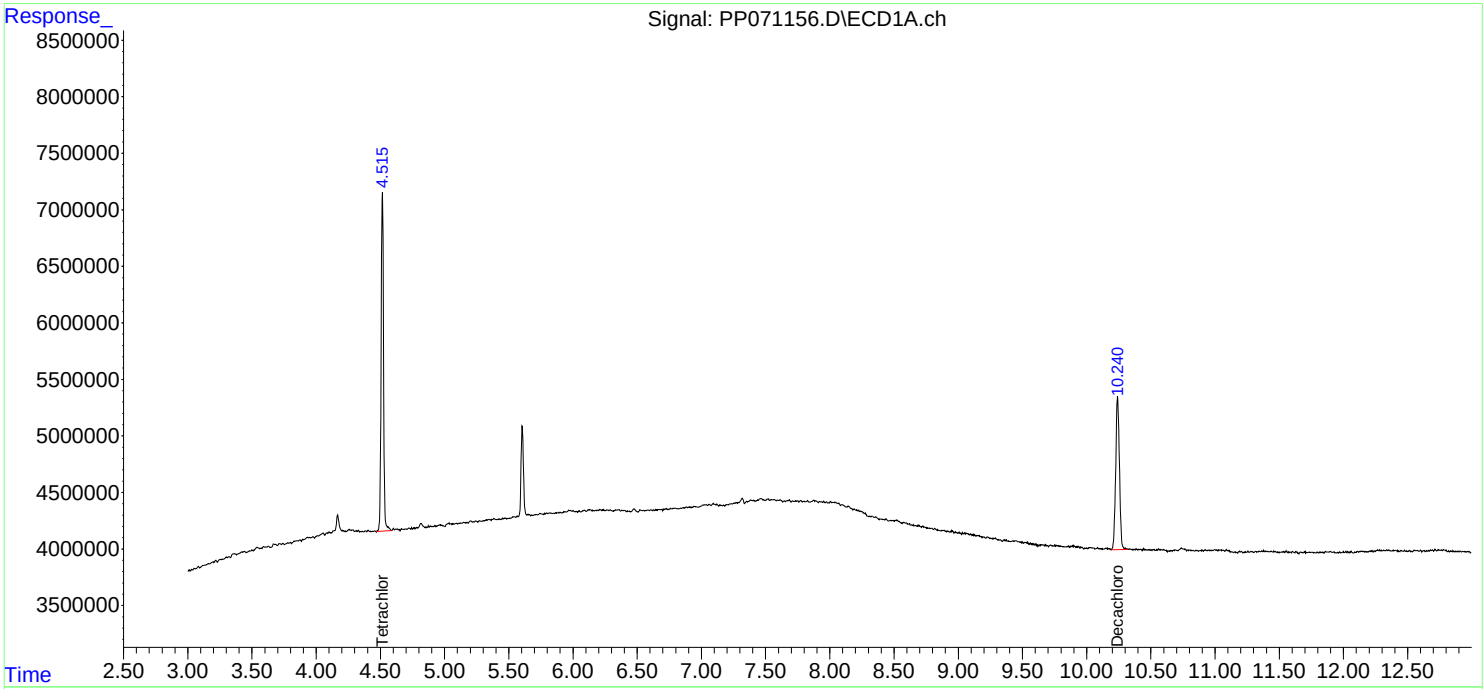
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

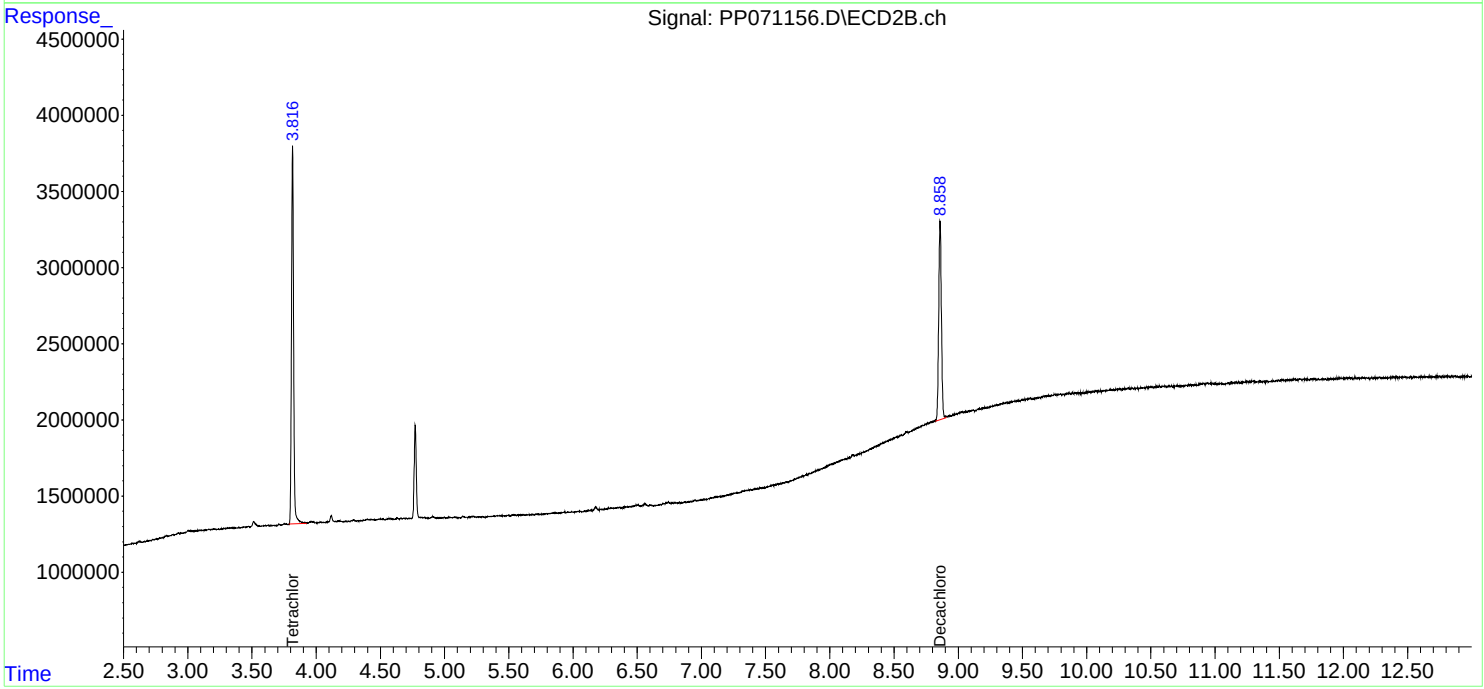
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:07
Operator : YP\AJ
Sample : PB167507BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

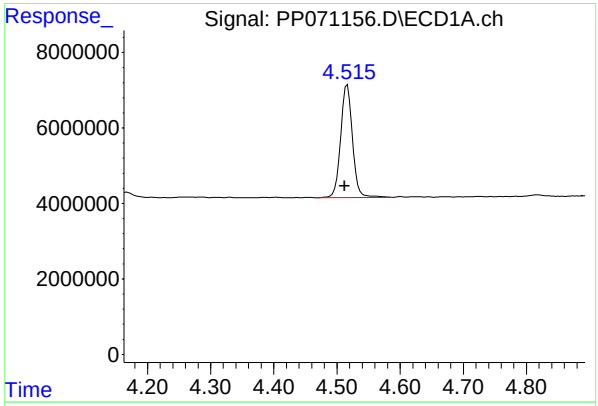
Instrument :
ECD_P
ClientSampleId :
PB167507BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



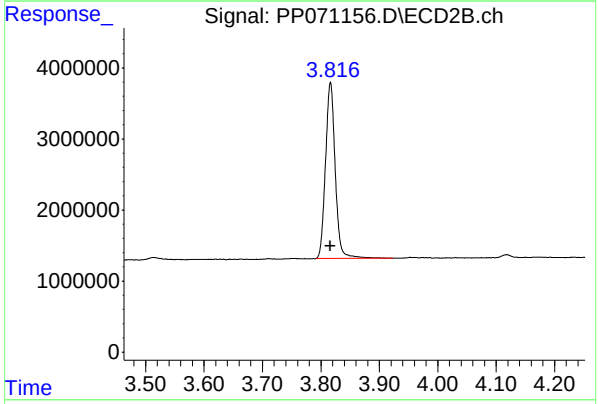




#1 Tetrachloro-m-xylene

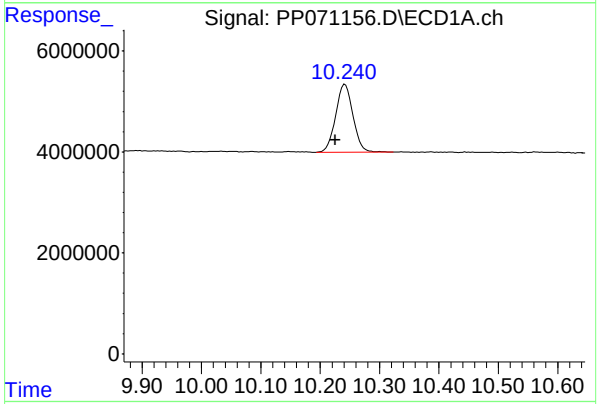
R.T.: 4.516 min
Delta R.T.: 0.004 min
Response: 38682818
Conc: 26.47 ng/ml

Instrument :
ECD_P
ClientSampleId :
PB167507BL



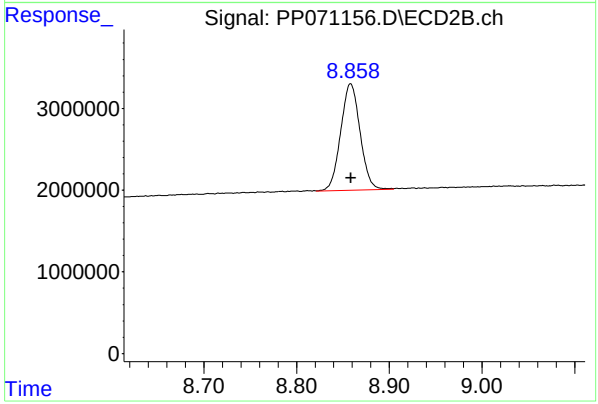
#1 Tetrachloro-m-xylene

R.T.: 3.816 min
Delta R.T.: 0.000 min
Response: 28677374
Conc: 27.66 ng/ml



#2 Decachlorobiphenyl

R.T.: 10.242 min
Delta R.T.: 0.016 min
Response: 27306872
Conc: 25.94 ng/ml



#2 Decachlorobiphenyl

R.T.: 8.858 min
Delta R.T.: 0.000 min
Response: 18887758
Conc: 23.96 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:23
Operator : YP\AJ
Sample : PB167507BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.518	3.816	38497139	25576966	26.339	24.673
2)	SA Decachlor...	10.244	8.857	27062627	17843775	25.710	22.639
	Target Compounds						
3)	L1 AR-1016-1	5.672	4.902	27097063	20471956	532.869	510.673
4)	L1 AR-1016-2	5.694	4.920	41876414	28888897	536.508	499.246
5)	L1 AR-1016-3	5.757	5.098	25159092	16299226	533.319	527.086
6)	L1 AR-1016-4	5.854	5.139	20816722	13800122	566.353	566.603
7)	L1 AR-1016-5	6.147	5.354	18775964	17370284	553.665	537.427
31)	L7 AR-1260-1	7.267	6.390	38086561	31565391	567.163	616.435
32)	L7 AR-1260-2	7.521	6.578	57469980	38686426	597.796	606.429
33)	L7 AR-1260-3	7.880	6.731	38146478	34219624	477.319	628.035 #
34)	L7 AR-1260-4	8.105	7.203	38255618	24195511	485.866	505.904
35)	L7 AR-1260-5	8.425	7.445	75466317	58288523	474.971	468.142

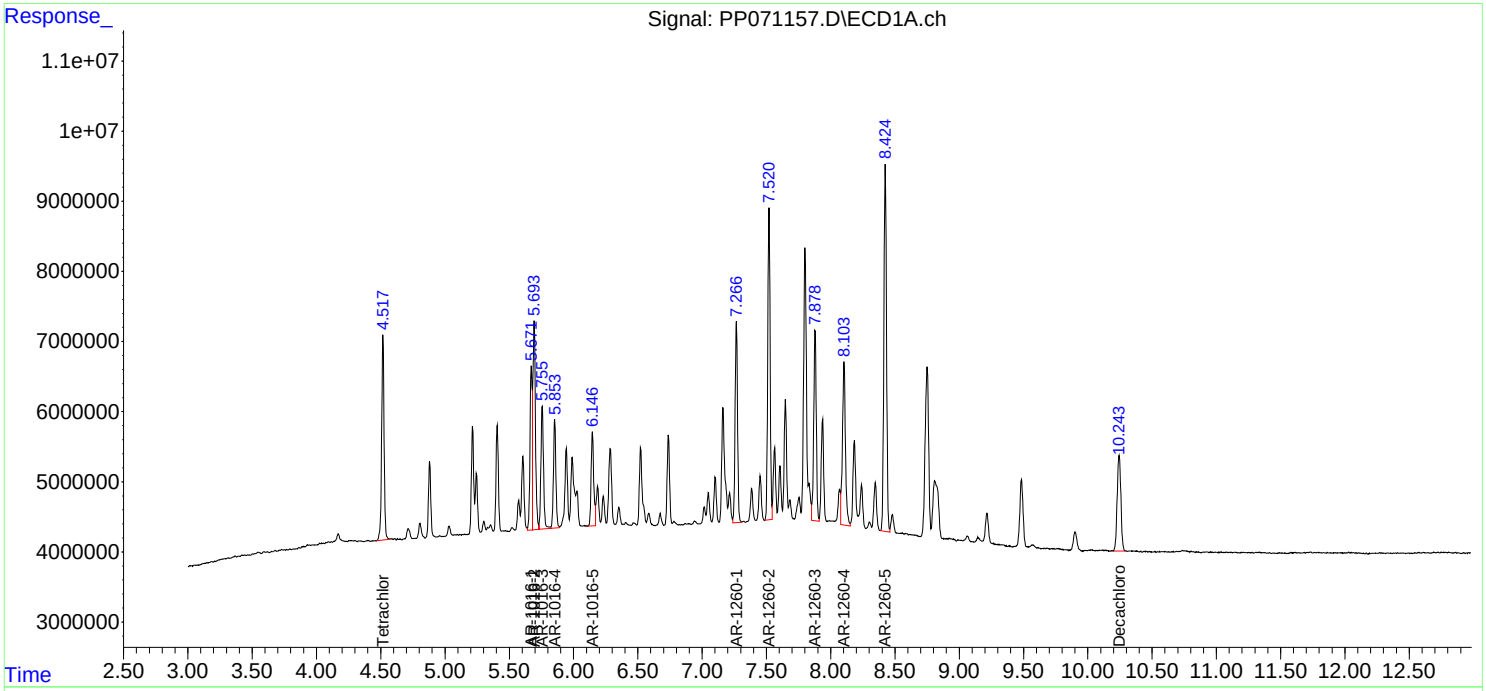
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

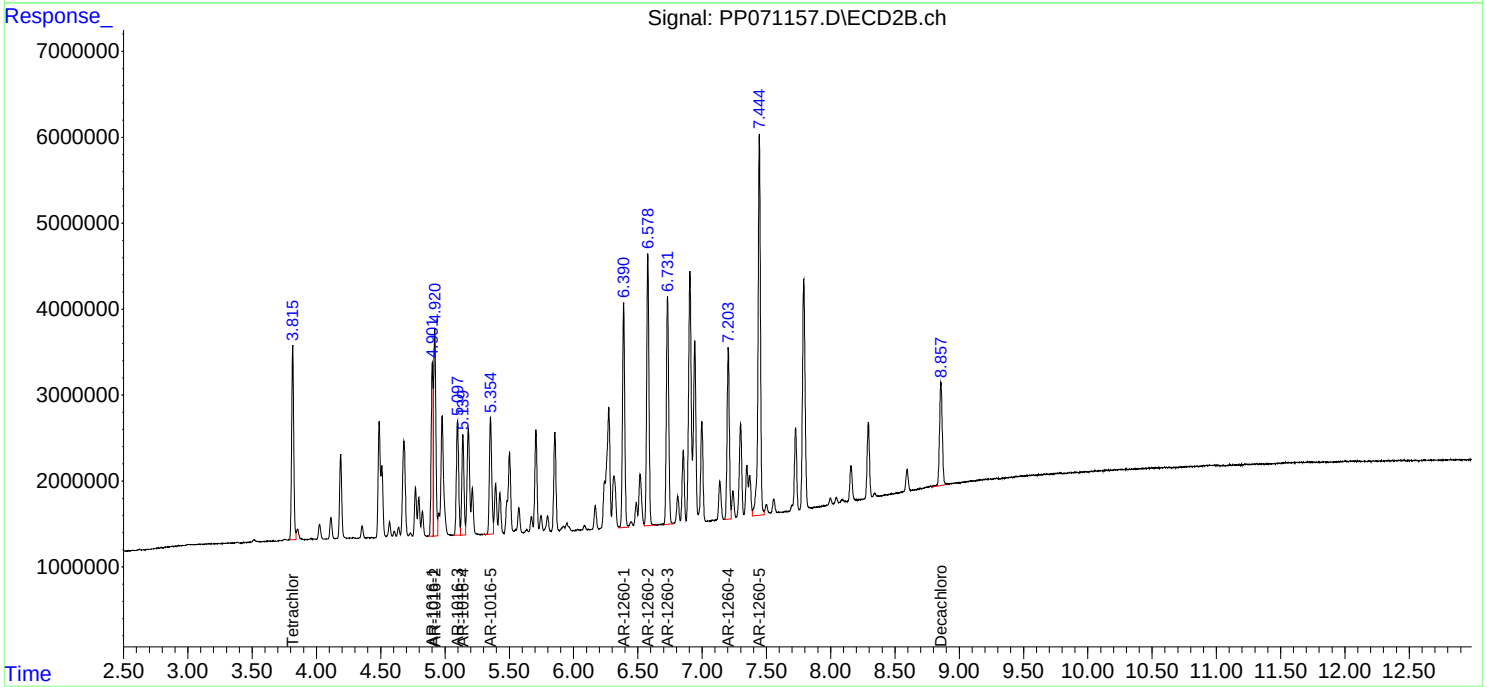
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 17:23
Operator : YP\AJ
Sample : PB167507BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
PB167507BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 09 00:24:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:41
Operator : YP\AJ
Sample : Q1742-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TR-06-040725MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:15:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.514	3.816	27332299	20908590	18.701m	20.170
2)	SA Decachlor...	10.243	8.858	24249000	15705126	23.037	19.925
	Target Compounds						
3)	L1 AR-1016-1	5.670	4.902	22970342	17618377	451.716	439.491
4)	L1 AR-1016-2	5.692	4.921	32920730	24304467	421.771	420.020
5)	L1 AR-1016-3	5.754	5.097	20545367	13907076	435.518	449.728
6)	L1 AR-1016-4	5.852	5.140	20759803	11304852	564.805	464.152
7)	L1 AR-1016-5	6.145	5.354	15138267	14442439	446.397	446.841
31)	L7 AR-1260-1	7.265	6.390	38056781	26377008	566.719	515.112
32)	L7 AR-1260-2	7.519	6.579	53815085	31645634	559.779	496.061
33)	L7 AR-1260-3	7.878	6.732	34258366	27370584	428.668	502.334
34)	L7 AR-1260-4	8.103	7.204	36215500	19705112	459.956	412.014
35)	L7 AR-1260-5	8.423	7.445	73760190	46946118	464.233	377.046

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

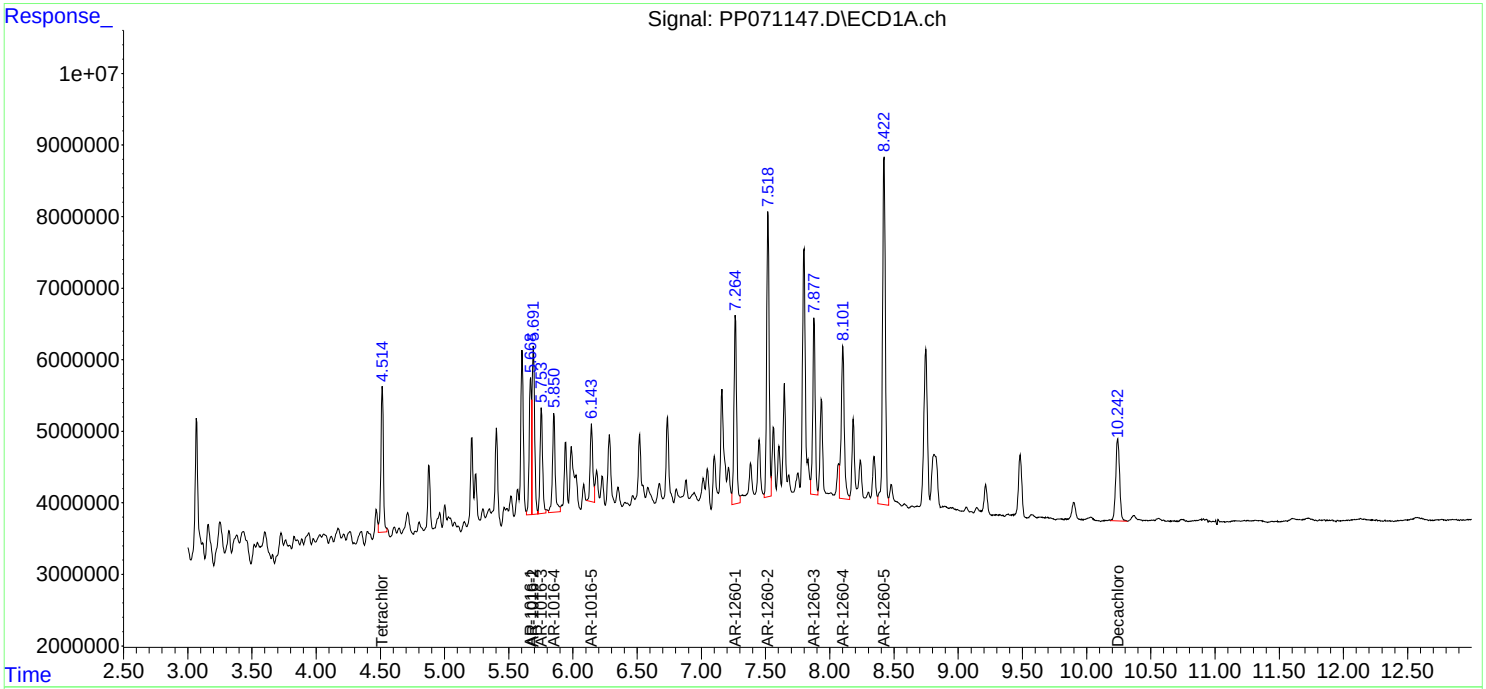
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:41
Operator : YP\AJ
Sample : Q1742-01MS
Misc :
ALS Vial : 13 Sample Multiplier: 1

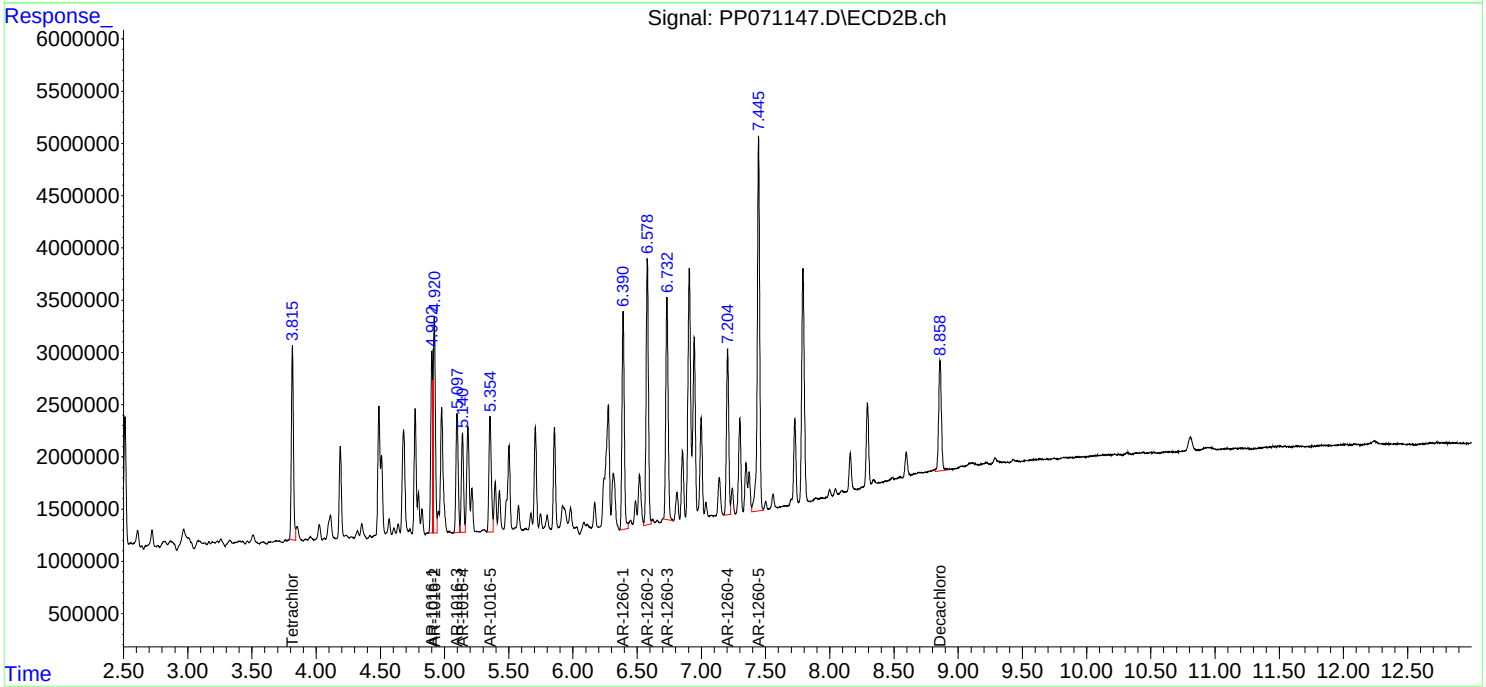
Instrument :
ECD_P
ClientSampleId :
TR-06-040725MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:15:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:57
Operator : YP\AJ
Sample : Q1742-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :
TR-06-040725MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	4.517	3.815	25476701	21963900	17.431m	21.188
2)	SA Decachlor...	10.247	8.858	23506426	16173777	22.331	20.520
	Target Compounds						
3)	L1 AR-1016-1	5.673	4.902	22639729	18047298	445.215	450.190
4)	L1 AR-1016-2	5.695	4.921	32357640	24967273	414.556	431.474
5)	L1 AR-1016-3	5.758	5.098	20155342	14283830	427.250	461.911
6)	L1 AR-1016-4	5.855	5.140	20368243	11652250	554.151	478.416
7)	L1 AR-1016-5	6.148	5.355	14646639	14845132	431.900	459.300
31)	L7 AR-1260-1	7.269	6.391	36708721	25430138	546.645	496.621
32)	L7 AR-1260-2	7.522	6.579	50769132	30372822	528.095	476.109
33)	L7 AR-1260-3	7.881	6.733	31997309	26271275	400.376	482.158
34)	L7 AR-1260-4	8.106	7.205	33485937	18393580	425.289	384.591
35)	L7 AR-1260-5	8.426	7.445	69050583	44825369	434.592	360.013

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

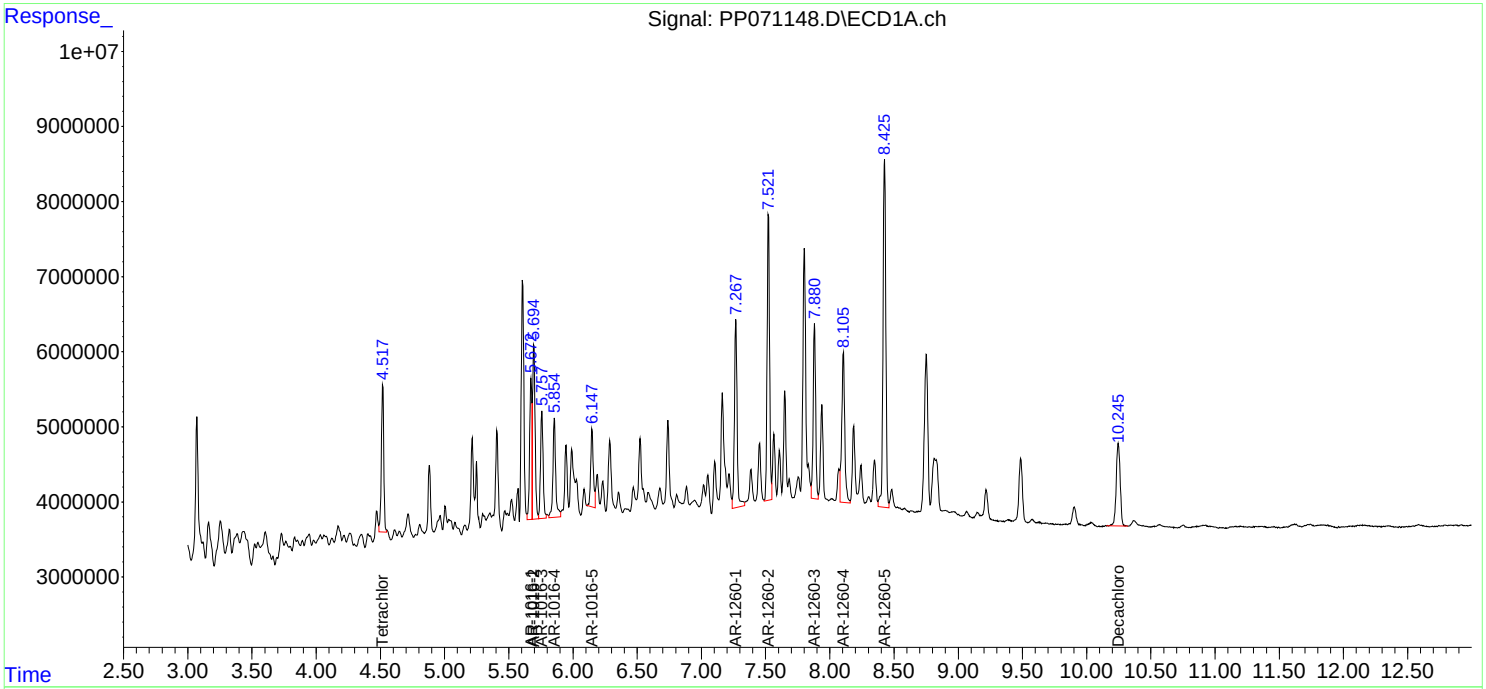
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP040825\
Data File : PP071148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Apr 2025 13:57
Operator : YP\AJ
Sample : Q1742-01MSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

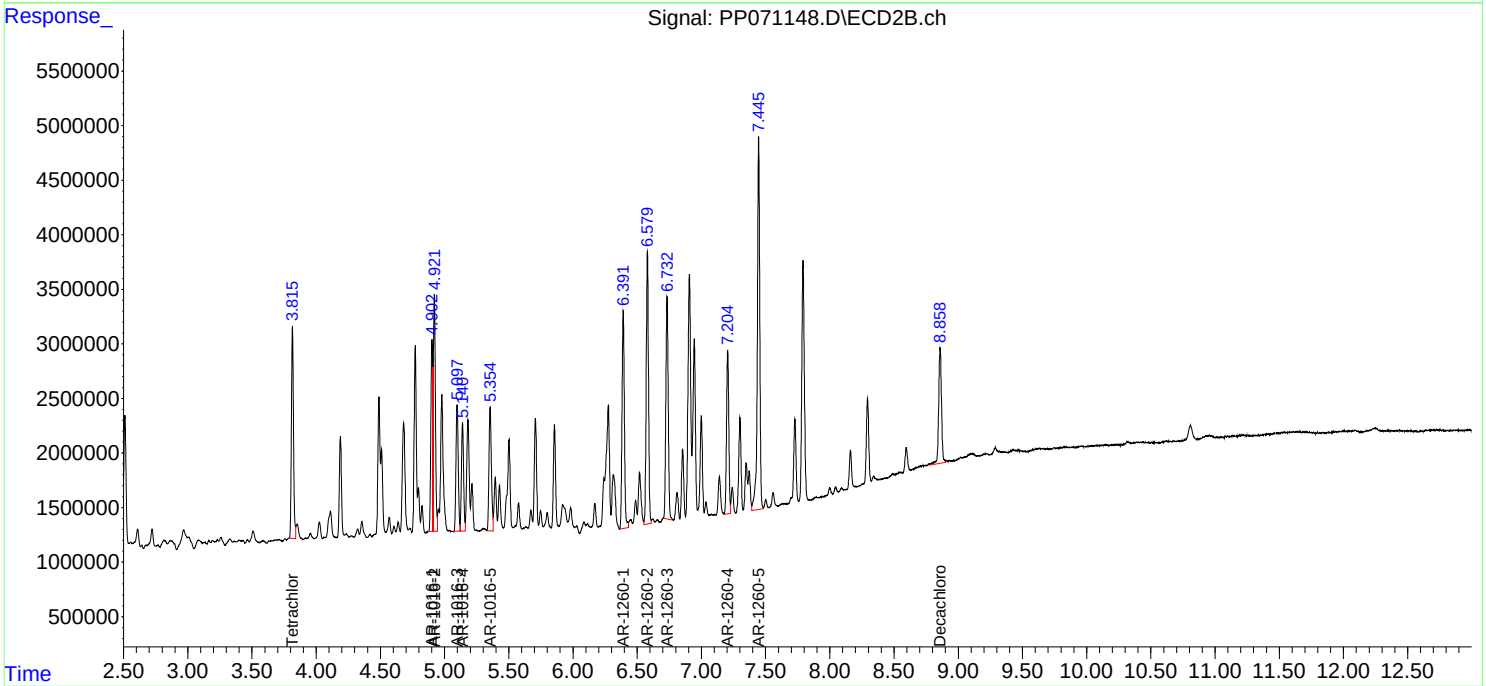
Instrument :
ECD_P
ClientSampleId :
TR-06-040725MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 08 14:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP032725.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Mar 28 03:13:46 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





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Manual Integration Report

Sequence:	PP032725	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660ICC250	PP070920.D	AR-1260-3	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC250	PP070920.D	AR-1260-4	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC250	PP070920.D	AR-1260-5	yogesh	3/28/2025 7:37:36 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1016-5	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-1	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-3	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-4	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1660ICC050	PP070921.D	AR-1260-5	yogesh	3/28/2025 7:37:38 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1232ICC500	PP070923.D	Decachlorobiphenyl	yogesh	3/28/2025 7:37:40 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-1	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-2 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-3	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP032725	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1242ICC050	PP070928.D	AR-1242-4	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-4 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-5	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1242ICC050	PP070928.D	AR-1242-5 #2	yogesh	3/28/2025 7:37:42 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-2	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-3	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-4	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1248ICC050	PP070933.D	AR-1248-5	yogesh	3/28/2025 7:37:44 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC1000	PP070934.D	AR-1254-5	yogesh	3/28/2025 7:37:45 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC750	PP070935.D	AR-1254-5	yogesh	3/28/2025 7:37:47 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICC250	PP070937.D	AR-1254-5	yogesh	3/28/2025 7:37:48 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC1000	PP070940.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:50 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC750	PP070941.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:51 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP032725	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1268ICC500	PP070942.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:53 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC250	PP070943.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:55 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	AR-1268-1 #2	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	AR-1268-4 #2	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1268ICC050	PP070944.D	Tetrachloro-m-xylene	yogesh	3/28/2025 7:37:56 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software
AR1254ICV500	PP070948.D	AR-1254-5	yogesh	3/28/2025 7:37:58 AM	mohammad	3/31/2025 1:17:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	PP040825	Instrument	ECD_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
AR1660CCC500	PP071136.D	AR-1260-4	yogesh	4/9/2025 9:18:11 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software
Q1742-01MS	PP071147.D	Tetrachloro-m-xylene	yogesh	4/9/2025 9:18:13 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software
Q1742-01MSD	PP071148.D	Tetrachloro-m-xylene	yogesh	4/9/2025 9:18:15 AM	mohammad	4/10/2025 5:29:57	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP070915.D	27 Mar 2025 09:58	YP\AJ	Ok
2	I.BLK	PP070916.D	27 Mar 2025 10:14	YP\AJ	Ok
3	AR1660ICC1000	PP070917.D	27 Mar 2025 10:30	YP\AJ	Ok
4	AR1660ICC750	PP070918.D	27 Mar 2025 10:47	YP\AJ	Ok
5	AR1660ICC500	PP070919.D	27 Mar 2025 11:03	YP\AJ	Ok
6	AR1660ICC250	PP070920.D	27 Mar 2025 11:19	YP\AJ	Ok,M
7	AR1660ICC050	PP070921.D	27 Mar 2025 11:35	YP\AJ	Ok,M
8	AR1221ICC500	PP070922.D	27 Mar 2025 11:52	YP\AJ	Ok
9	AR1232ICC500	PP070923.D	27 Mar 2025 12:11	YP\AJ	Ok,M
10	AR1242ICC1000	PP070924.D	27 Mar 2025 12:28	YP\AJ	Ok
11	AR1242ICC750	PP070925.D	27 Mar 2025 12:44	YP\AJ	Ok
12	AR1242ICC500	PP070926.D	27 Mar 2025 13:00	YP\AJ	Ok
13	AR1242ICC250	PP070927.D	27 Mar 2025 13:16	YP\AJ	Ok
14	AR1242ICC050	PP070928.D	27 Mar 2025 13:33	YP\AJ	Ok,M
15	AR1248ICC1000	PP070929.D	27 Mar 2025 13:49	YP\AJ	Ok
16	AR1248ICC750	PP070930.D	27 Mar 2025 14:05	YP\AJ	Ok
17	AR1248ICC500	PP070931.D	27 Mar 2025 14:22	YP\AJ	Ok
18	AR1248ICC250	PP070932.D	27 Mar 2025 14:38	YP\AJ	Ok
19	AR1248ICC050	PP070933.D	27 Mar 2025 14:55	YP\AJ	Ok,M
20	AR1254ICC1000	PP070934.D	27 Mar 2025 15:11	YP\AJ	Ok,M
21	AR1254ICC750	PP070935.D	27 Mar 2025 15:27	YP\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	AR1254ICC500	PP070936.D	27 Mar 2025 15:43	YP\AJ	Ok
23	AR1254ICC250	PP070937.D	27 Mar 2025 16:00	YP\AJ	Ok,M
24	AR1254ICC050	PP070938.D	27 Mar 2025 16:16	YP\AJ	Ok
25	AR1262ICC500	PP070939.D	27 Mar 2025 16:32	YP\AJ	Ok
26	AR1268ICC1000	PP070940.D	27 Mar 2025 16:48	YP\AJ	Ok,M
27	AR1268ICC750	PP070941.D	27 Mar 2025 17:05	YP\AJ	Ok,M
28	AR1268ICC500	PP070942.D	27 Mar 2025 17:21	YP\AJ	Ok,M
29	AR1268ICC250	PP070943.D	27 Mar 2025 17:37	YP\AJ	Ok,M
30	AR1268ICC050	PP070944.D	27 Mar 2025 17:53	YP\AJ	Ok,M
31	PP032725ICV500	PP070945.D	27 Mar 2025 18:26	YP\AJ	Ok
32	AR1242ICV500	PP070946.D	27 Mar 2025 18:42	YP\AJ	Ok
33	AR1248ICV500	PP070947.D	27 Mar 2025 19:15	YP\AJ	Ok
34	AR1254ICV500	PP070948.D	27 Mar 2025 19:47	YP\AJ	Ok,M
35	AR1268ICV500	PP070949.D	27 Mar 2025 20:20	YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PP071135.D	08 Apr 2025 08:39	YP\AJ	Ok
2	AR1660CCC500	PP071136.D	08 Apr 2025 09:37	YP\AJ	Ok,M
3	AR1242CCC500	PP071137.D	08 Apr 2025 09:56	YP\AJ	Ok
4	AR1248CCC500	PP071138.D	08 Apr 2025 10:33	YP\AJ	Ok
5	AR1254CCC500	PP071139.D	08 Apr 2025 10:49	YP\AJ	Ok
6	I.BLK	PP071140.D	08 Apr 2025 11:05	YP\AJ	Ok
7	PB167469BL	PP071141.D	08 Apr 2025 11:23	YP\AJ	Not Ok
8	Q1730-15	PP071142.D	08 Apr 2025 11:39	YP\AJ	Ok
9	Q1730-17	PP071143.D	08 Apr 2025 11:56	YP\AJ	Ok
10	Q1730-19	PP071144.D	08 Apr 2025 12:12	YP\AJ	Ok
11	Q1740-01	PP071145.D	08 Apr 2025 13:08	YP\AJ	Ok
12	Q1742-01	PP071146.D	08 Apr 2025 13:25	YP\AJ	Ok,M
13	Q1742-01MS	PP071147.D	08 Apr 2025 13:41	YP\AJ	Ok,M
14	Q1742-01MSD	PP071148.D	08 Apr 2025 13:57	YP\AJ	Ok,M
15	Q1743-01	PP071149.D	08 Apr 2025 14:14	YP\AJ	Ok,M
16	Q1744-01	PP071150.D	08 Apr 2025 14:30	YP\AJ	Ok
17	AR1660CCC500	PP071151.D	08 Apr 2025 15:29	YP\AJ	Ok
18	AR1242CCC500	PP071152.D	08 Apr 2025 16:02	YP\AJ	Ok
19	AR1248CCC500	PP071153.D	08 Apr 2025 16:18	YP\AJ	Ok
20	AR1254CCC500	PP071154.D	08 Apr 2025 16:34	YP\AJ	Ok
21	I.BLK	PP071155.D	08 Apr 2025 16:51	YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344 ,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP2435 9,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP2
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB167507BL	PP071156.D	08 Apr 2025 17:07	YP\AJ	Ok
23	PB167507BS	PP071157.D	08 Apr 2025 17:23	YP\AJ	Ok
24	Q1744-03	PP071158.D	08 Apr 2025 17:40	YP\AJ	Ok
25	Q1745-01	PP071159.D	08 Apr 2025 17:56	YP\AJ	Ok,M
26	Q1745-09	PP071160.D	08 Apr 2025 18:12	YP\AJ	Ok,M
27	Q1746-01	PP071161.D	08 Apr 2025 18:28	YP\AJ	Ok
28	Q1746-03	PP071162.D	08 Apr 2025 18:45	YP\AJ	Ok
29	Q1747-01	PP071163.D	08 Apr 2025 19:01	YP\AJ	Ok,M
30	AR1660CCC500	PP071164.D	08 Apr 2025 20:28	YP\AJ	Ok
31	AR1242CCC500	PP071165.D	08 Apr 2025 21:17	YP\AJ	Ok
32	AR1248CCC500	PP071166.D	08 Apr 2025 21:33	YP\AJ	Ok
33	AR1254CCC500	PP071167.D	08 Apr 2025 21:49	YP\AJ	Ok
34	I.BLK	PP071168.D	08 Apr 2025 22:05	YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP070915.D	27 Mar 2025 09:58		YP\AJ	Ok
2	I.BLK	I.BLK	PP070916.D	27 Mar 2025 10:14		YP\AJ	Ok
3	AR1660ICC1000	AR1660ICC1000	PP070917.D	27 Mar 2025 10:30		YP\AJ	Ok
4	AR1660ICC750	AR1660ICC750	PP070918.D	27 Mar 2025 10:47		YP\AJ	Ok
5	AR1660ICC500	AR1660ICC500	PP070919.D	27 Mar 2025 11:03		YP\AJ	Ok
6	AR1660ICC250	AR1660ICC250	PP070920.D	27 Mar 2025 11:19		YP\AJ	Ok,M
7	AR1660ICC050	AR1660ICC050	PP070921.D	27 Mar 2025 11:35		YP\AJ	Ok,M
8	AR1221ICC500	AR1221ICC500	PP070922.D	27 Mar 2025 11:52		YP\AJ	Ok
9	AR1232ICC500	AR1232ICC500	PP070923.D	27 Mar 2025 12:11		YP\AJ	Ok,M
10	AR1242ICC1000	AR1242ICC1000	PP070924.D	27 Mar 2025 12:28		YP\AJ	Ok
11	AR1242ICC750	AR1242ICC750	PP070925.D	27 Mar 2025 12:44		YP\AJ	Ok
12	AR1242ICC500	AR1242ICC500	PP070926.D	27 Mar 2025 13:00		YP\AJ	Ok
13	AR1242ICC250	AR1242ICC250	PP070927.D	27 Mar 2025 13:16		YP\AJ	Ok
14	AR1242ICC050	AR1242ICC050	PP070928.D	27 Mar 2025 13:33		YP\AJ	Ok,M
15	AR1248ICC1000	AR1248ICC1000	PP070929.D	27 Mar 2025 13:49		YP\AJ	Ok
16	AR1248ICC750	AR1248ICC750	PP070930.D	27 Mar 2025 14:05		YP\AJ	Ok
17	AR1248ICC500	AR1248ICC500	PP070931.D	27 Mar 2025 14:22		YP\AJ	Ok
18	AR1248ICC250	AR1248ICC250	PP070932.D	27 Mar 2025 14:38		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP032725

Review By	yogesh	Review On	3/27/2025 12:19:10 PM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:13 AM		
SubDirectory	PP032725	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248ICC050	AR1248ICC050	PP070933.D	27 Mar 2025 14:55		YP\AJ	Ok,M
20	AR1254ICC1000	AR1254ICC1000	PP070934.D	27 Mar 2025 15:11		YP\AJ	Ok,M
21	AR1254ICC750	AR1254ICC750	PP070935.D	27 Mar 2025 15:27		YP\AJ	Ok,M
22	AR1254ICC500	AR1254ICC500	PP070936.D	27 Mar 2025 15:43		YP\AJ	Ok
23	AR1254ICC250	AR1254ICC250	PP070937.D	27 Mar 2025 16:00		YP\AJ	Ok,M
24	AR1254ICC050	AR1254ICC050	PP070938.D	27 Mar 2025 16:16		YP\AJ	Ok
25	AR1262ICC500	AR1262ICC500	PP070939.D	27 Mar 2025 16:32		YP\AJ	Ok
26	AR1268ICC1000	AR1268ICC1000	PP070940.D	27 Mar 2025 16:48		YP\AJ	Ok,M
27	AR1268ICC750	AR1268ICC750	PP070941.D	27 Mar 2025 17:05		YP\AJ	Ok,M
28	AR1268ICC500	AR1268ICC500	PP070942.D	27 Mar 2025 17:21		YP\AJ	Ok,M
29	AR1268ICC250	AR1268ICC250	PP070943.D	27 Mar 2025 17:37		YP\AJ	Ok,M
30	AR1268ICC050	AR1268ICC050	PP070944.D	27 Mar 2025 17:53		YP\AJ	Ok,M
31	PP032725ICV500	ICVPP032725	PP070945.D	27 Mar 2025 18:26		YP\AJ	Ok
32	AR1242ICV500	ICVPP032725AR1242	PP070946.D	27 Mar 2025 18:42		YP\AJ	Ok
33	AR1248ICV500	ICVPP032725AR1248	PP070947.D	27 Mar 2025 19:15		YP\AJ	Ok
34	AR1254ICV500	ICVPP032725AR1254	PP070948.D	27 Mar 2025 19:47		YP\AJ	Ok,M
35	AR1268ICV500	ICVPP032725AR1268	PP070949.D	27 Mar 2025 20:20		YP\AJ	Ok

M : Manual Integration

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PP071135.D	08 Apr 2025 08:39		YP\AJ	Ok
2	AR1660CCC500	AR1660CCC500	PP071136.D	08 Apr 2025 09:37		YP\AJ	Ok,M
3	AR1242CCC500	AR1242CCC500	PP071137.D	08 Apr 2025 09:56		YP\AJ	Ok
4	AR1248CCC500	AR1248CCC500	PP071138.D	08 Apr 2025 10:33		YP\AJ	Ok
5	AR1254CCC500	AR1254CCC500	PP071139.D	08 Apr 2025 10:49		YP\AJ	Ok
6	I.BLK	I.BLK	PP071140.D	08 Apr 2025 11:05		YP\AJ	Ok
7	PB167469BL	PB167469BL	PP071141.D	08 Apr 2025 11:23	not required	YP\AJ	Not Ok
8	Q1730-15	OU4-PCS-TC-25-04032	PP071142.D	08 Apr 2025 11:39		YP\AJ	Ok
9	Q1730-17	OU4-PCS-TC-26-04032	PP071143.D	08 Apr 2025 11:56		YP\AJ	Ok
10	Q1730-19	OU4-CF-15-040325	PP071144.D	08 Apr 2025 12:12	DCB High in 2ND column	YP\AJ	Ok
11	Q1740-01	TP-20	PP071145.D	08 Apr 2025 13:08		YP\AJ	Ok
12	Q1742-01	TR-06-040725	PP071146.D	08 Apr 2025 13:25		YP\AJ	Ok,M
13	Q1742-01MS	TR-06-040725MS	PP071147.D	08 Apr 2025 13:41		YP\AJ	Ok,M
14	Q1742-01MSD	TR-06-040725MSD	PP071148.D	08 Apr 2025 13:57		YP\AJ	Ok,M
15	Q1743-01	TP-16	PP071149.D	08 Apr 2025 14:14	AR1260 Hit	YP\AJ	Ok,M
16	Q1744-01	B-158-SB01	PP071150.D	08 Apr 2025 14:30	TCMX High in 2nd column	YP\AJ	Ok
17	AR1660CCC500	AR1660CCC500	PP071151.D	08 Apr 2025 15:29		YP\AJ	Ok
18	AR1242CCC500	AR1242CCC500	PP071152.D	08 Apr 2025 16:02		YP\AJ	Ok

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Instrument ID: ECD_P

Daily Analysis Runlog For Sequence/QCBatch ID # PP040825

Review By	yogesh	Review On	4/8/2025 3:06:55 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:29:57 AM		
SubDirectory	PP040825	HP Acquire Method		HP Processing Method	PP032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24367,PP24368,PP24369
CCC	PP24332,PP24347,PP24352,PP24357
Internal Standard/PEM	
ICV/I.BLK	PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AR1248CCC500	AR1248CCC500	PP071153.D	08 Apr 2025 16:18		YP\AJ	Ok
20	AR1254CCC500	AR1254CCC500	PP071154.D	08 Apr 2025 16:34		YP\AJ	Ok
21	I.BLK	I.BLK	PP071155.D	08 Apr 2025 16:51		YP\AJ	Ok
22	PB167507BL	PB167507BL	PP071156.D	08 Apr 2025 17:07		YP\AJ	Ok
23	PB167507BS	PB167507BS	PP071157.D	08 Apr 2025 17:23		YP\AJ	Ok
24	Q1744-03	B-158-SB02	PP071158.D	08 Apr 2025 17:40		YP\AJ	Ok
25	Q1745-01	IB-6A-WC	PP071159.D	08 Apr 2025 17:56		YP\AJ	Ok,M
26	Q1745-09	IB-6.5-WC	PP071160.D	08 Apr 2025 18:12		YP\AJ	Ok,M
27	Q1746-01	B-149-SB01	PP071161.D	08 Apr 2025 18:28		YP\AJ	Ok
28	Q1746-03	B-149-SB02	PP071162.D	08 Apr 2025 18:45		YP\AJ	Ok
29	Q1747-01	ARS20-0008	PP071163.D	08 Apr 2025 19:01		YP\AJ	Ok,M
30	AR1660CCC500	AR1660CCC500	PP071164.D	08 Apr 2025 20:28		YP\AJ	Ok
31	AR1242CCC500	AR1242CCC500	PP071165.D	08 Apr 2025 21:17		YP\AJ	Ok
32	AR1248CCC500	AR1248CCC500	PP071166.D	08 Apr 2025 21:33		YP\AJ	Ok
33	AR1254CCC500	AR1254CCC500	PP071167.D	08 Apr 2025 21:49		YP\AJ	Ok
34	I.BLK	I.BLK	PP071168.D	08 Apr 2025 22:05		YP\AJ	Ok

M : Manual Integration

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EXTRACTION LOGPAGE

PB167507

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Acid Cleanup			**Extraction Start Date :**	04/08/2025
Matrix :	Solid			**Extraction Start Time :**	08:11
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/08/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:25
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5000 PPB	PP24328
Surrogate	1.0ML	200 PPB	PP24217
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	EP2601
Baked Na2SO4	N/A	EP2599
Sand	N/A	E2865
Hexane	N/A	E3916
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML 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
04/08/25	RP (Ext. Lab)	R-Pest/PCB Lab
11:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167507

10

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167507BL	ABLK507	PCB	30.02	N/A	ritesh	Evelyn	10			U7-1
PB167507BS	ALCS507	PCB	30.01	N/A	ritesh	Evelyn	10			2
Q1740-01	TP-20	PCB	30.05	N/A	ritesh	Evelyn	10	E		3
Q1742-01	TR-06-040725	PCB	30.03	N/A	ritesh	Evelyn	10	E		4
Q1742-01MS	TR-06-040725MS	PCB	30.06	N/A	ritesh	Evelyn	10	E		5
Q1742-01MSD	TR-06-040725MSD	PCB	30.09	N/A	ritesh	Evelyn	10	E		6
Q1743-01	TP-16	PCB	30.04	N/A	ritesh	Evelyn	10	D		U2-1
Q1744-01	B-158-SB01	PCB	30.02	N/A	ritesh	Evelyn	10	E		2
Q1744-03	B-158-SB02	PCB	30.09	N/A	ritesh	Evelyn	10	E		3
Q1745-01	IB-6A-WC	PCB	30.07	N/A	ritesh	Evelyn	10	D		4
Q1745-09	IB-6.5-WC	PCB	30.08	N/A	ritesh	Evelyn	10	D		5
Q1746-01	B-149-SB01	PCB	30.06	N/A	ritesh	Evelyn	10	E		6
Q1746-03	B-149-SB02	PCB	30.02	N/A	ritesh	Evelyn	10	F		U3-1
Q1747-01	ARS20-0008	PCB	30.03	N/A	ritesh	Evelyn	10	E		2

* **Extracts relinquished on the same date as received.**

4/8/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : 1740 **WorkList ID :** 188788 **Department :** Extraction **Date :** 04-08-2025 08:08:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	PCB	Cool 4 deg C	PSEG03	L21	04/04/2025	8082A
Q1742-01	TR-06-040725	Solid	PCB	Cool 4 deg C	PSEG05		04/04/2025	8082A
Q1743-01	TP-16	Solid	PCB	Cool 4 deg C	PSEG03	L33	04/07/2025	8082A
Q1744-01	B-158-SB01	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1744-03	B-158-SB02	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1745-01	IB-6A-WC	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/07/2025	8082A
Q1745-09	IB-6.5-WC	Solid	PCB	Cool 4 deg C	PSEG03	L41	04/07/2025	8082A
Q1746-01	B-149-SB01	Solid	PCB	Cool 4 deg C	PORT06	L41	04/05/2025	8082A
Q1746-03	B-149-SB02	Solid	PCB	Cool 4 deg C	PORT06	L41	04/06/2025	8082A
Q1747-01	ARS20-0008	Solid	PCB	Cool 4 deg C	PSEG03	I41	04/07/2025	8082A

Date/Time 04/08/25 8:10
Raw Sample Received by: RJ (Ent log)
Raw Sample Relinquished by: CP SM

Date/Time 04/08/25 8:35
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ent log)

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LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1744 **Order ID:** Q1744

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PB167517TB	SDG No.:	Q1744
Lab Sample ID:	PB167517TB	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
PS029771.D	1	04/09/25 12:55	04/09/25 23:47	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	621		70 (39) - 130 (175)	124%	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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	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
PS029774.D	1	04/09/25 12:55	04/10/25 02:11	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	728	*	70 (39) - 130 (175)	146%	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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	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
PS029775.D	1	04/09/25 12:55	04/10/25 02:35	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	9.20	U	9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	7.80	U	7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	615		70 (39) - 130 (175)	123%	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,
Fax : 908 789 8922

Surrogate Summary

SDG No.: Q1744

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-PS029656.D	PIBLK-PS029656.D	2,4-DCAA	1	500	476	95		70 (39)	130 (175)
		2,4-DCAA	2	500	485	97		70 (39)	130 (175)
I.BLK-PS029763.D	PIBLK-PS029763.D	2,4-DCAA	1	500	594	119		70 (39)	130 (175)
		2,4-DCAA	2	500	582	116		70 (39)	130 (175)
Q1739-02MS	WC-LIQUID-20250404MS	2,4-DCAA	1	500	589	118		70 (39)	130 (175)
		2,4-DCAA	2	500	645	129		70 (39)	130 (175)
Q1739-02MSD	WC-LIQUID-20250404MSD	2,4-DCAA	1	500	593	119		70 (39)	130 (175)
		2,4-DCAA	2	500	656	131	*	70 (39)	130 (175)
PB167536BL	PB167536BL	2,4-DCAA	1	500	559	112		70 (39)	130 (175)
		2,4-DCAA	2	500	539	108		70 (39)	130 (175)
PB167536BS	PB167536BS	2,4-DCAA	1	500	556	111		70 (39)	130 (175)
		2,4-DCAA	2	500	581	116		70 (39)	130 (175)
PB167517TB	PB167517TB	2,4-DCAA	1	500	621	124		70 (39)	130 (175)
		2,4-DCAA	2	500	588	118		70 (39)	130 (175)
I.BLK-PS029772.D	PIBLK-PS029772.D	2,4-DCAA	1	500	618	124		70 (39)	130 (175)
		2,4-DCAA	2	500	610	122		70 (39)	130 (175)
Q1744-02	B-158-SB01	2,4-DCAA	1	500	728	146	*	70 (39)	130 (175)
		2,4-DCAA	2	500	693	139	*	70 (39)	130 (175)
Q1744-04	B-158-SB02	2,4-DCAA	1	500	615	123		70 (39)	130 (175)
		2,4-DCAA	2	500	573	115		70 (39)	130 (175)
I.BLK-PS029778.D	PIBLK-PS029778.D	2,4-DCAA	1	500	563	113		70 (39)	130 (175)
		2,4-DCAA	2	500	550	110		70 (39)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS029766.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**WC-LIQUID-20250404MS**											
Q1739-02MS	2,4-D	50	0	58.8	ug/L	118				70 (65)	130 (135)	
	2,4,5-TP(Silvex)	50	0	60.7	ug/L	121				70 (62)	130 (139)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **DataFile :** PS029767.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:	**WC-LIQUID-20250404MSD**											
Q1739-02MSD	2,4-D	50	0	60.0	ug/L	120		2		70 (65)	130 (135)	20 (20)
	2,4,5-TP(Silvex)	50	0	62.0	ug/L	124		2		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.: Q1744

Client: Portal Partners Tri-Venture

Analytical Method: 8151A **Datafile :** PS029769.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167536BS	2,4-D	5	5.70	ug/L	114				70 (83)	130 (130)	
	2,4,5-TP(Silvex)	5	5.80	ug/L	116				70 (78)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167536BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab Sample ID: PB167536BL Lab File ID: PS029768.D

Matrix: (soil/water) water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 04/09/2025

Date Analyzed (1): 04/09/2025 Date Analyzed (2): 04/09/2025

Time Analyzed (1): 22:34 Time Analyzed (2): 22:34

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
WC-LIQUID-20250404MS	Q1739-02MS	PS029766.D	04/09/2025	04/09/2025
WC-LIQUID-20250404MSD	Q1739-02MSD	PS029767.D	04/09/2025	04/09/2025
PB167536BS	PB167536BS	PS029769.D	04/09/2025	04/09/2025
PB167517TB	PB167517TB	PS029771.D	04/09/2025	04/09/2025
B-158-SB01	Q1744-02	PS029774.D	04/10/2025	04/10/2025
B-158-SB02	Q1744-04	PS029775.D	04/10/2025	04/10/2025

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167536BL	SDG No.:	Q1744
Lab Sample ID:	PB167536BL	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
PS029768.D	1	04/09/25 12:55	04/09/25 22:34	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	559		70 (39) - 130 (175)	112%	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:	04/02/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/02/25
Client Sample ID:	PIBLK-PS029656.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PS029656.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
PS029656.D	1		04/02/25	PS040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	485		70 (39) - 130 (175)	97%	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:	04/09/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/09/25
Client Sample ID:	PIBLK-PS029763.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PS029763.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
PS029763.D	1		04/09/25	ps040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	594		70 (39) - 130 (175)	119%	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:	04/10/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/10/25
Client Sample ID:	PIBLK-PS029772.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PS029772.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
PS029772.D	1		04/10/25	ps040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	618		70 (39) - 130 (175)	124%	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:	04/10/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/10/25
Client Sample ID:	PIBLK-PS029778.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-PS029778.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
PS029778.D	1		04/10/25	ps040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	563		70 (39) - 130 (175)	113%	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 2025	Date Received:	
Client Sample ID:	PB167536BS	SDG No.:	Q1744
Lab Sample ID:	PB167536BS	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
PS029769.D	1	04/09/25 12:55	04/09/25 22:58	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	5.70		0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	5.80		0.78	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	581		70 (39) - 130 (175)	116%	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:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MS	SDG No.:	Q1744
Lab Sample ID:	Q1739-02MS	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
PS029766.D	1	04/09/25 12:55	04/09/25 21:46	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	58.8		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	60.7		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	645		70 (39) - 130 (175)	129%	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:	04/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/04/25
Client Sample ID:	WC-LIQUID-20250404MSD	SDG No.:	Q1744
Lab Sample ID:	Q1739-02MSD	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
PS029767.D	1	04/09/25 12:55	04/09/25 22:10	PB167536

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
94-75-7	2,4-D	60.0		9.20	20.0	ug/L
93-72-1	2,4,5-TP (Silvex)	62.0		7.80	20.0	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	656	*	70 (39) - 130 (175)	131%	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.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029657.D RT 500 = PS029658.D

RT 750 = PS029659.D RT 1000 = PS029660.D RT 1500 = PS029661.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)	8.89	8.89	8.89	8.89	8.89	8.89	8.79	8.99
2,4-D	8.04	8.04	8.04	8.04	8.04	8.04	7.94	8.14
2,4-DCAA	6.96	6.96	6.96	6.96	6.96	6.96	6.86	7.06

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID: RT 200 = PS029657.D RT 500 = PS029658.D

RT 750 = PS029659.D RT 1000 = PS029660.D RT 1500 = PS029661.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)	9.55	9.55	9.55	9.55	9.55	9.55	9.45	9.65
2,4-D	8.67	8.67	8.67	8.67	8.67	8.67	8.57	8.77
2,4-DCAA	7.48	7.48	7.48	7.48	7.48	7.48	7.38	7.58

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029657.D **CF 500 =** PS029658.D

CF 750 = PS029659.D **CF 1000 =** PS029660.D **CF 1500 =** PS029661.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	12727900000	11569300000	11320400000	11249800000	11209500000	11615400000	5
2,4-D	2821030000	2334770000	2267580000	2246770000	2377810000	2409590000	10
2,4-DCAA	2302820000	2069000000	1979340000	1949030000	1893970000	2038830000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Instrument ID: ECD_S **Calibration Date(s):** 04/02/2025 04/02/2025

Calibration Times: 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 200 =** PS029657.D **CF 500 =** PS029658.D

CF 750 = PS029659.D **CF 1000 =** PS029660.D **CF 1500 =** PS029661.D

COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-TP(Silvex)	7615620000	7063890000	7056380000	7090810000	7238100000	7212960000	3
2,4-D	1263680000	1033640000	1003030000	1003730000	1088250000	1078460000	10
2,4-DCAA	756673000	677593000	660102000	658637000	654559000	681513000	6

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 20:34 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.94	6.96	6.86	7.06	0.02
2,4-D	8.02	8.04	7.94	8.14	0.02
2,4,5-TP(Silvex)	8.86	8.89	8.79	8.99	0.03

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/09/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 20:34 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.47	7.48	7.38	7.58	0.01
2,4-D	8.66	8.67	8.57	8.77	0.01
2,4,5-TP(Silvex)	9.54	9.55	9.45	9.65	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029764.D **Time Analyzed:** 20:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.863	8.788	8.988	735.080	712.500	3.2
2,4-D	8.020	7.942	8.142	723.340	705.000	2.6
2,4-DCAA	6.943	6.863	7.063	740.470	750.000	-1.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL01 **Date Analyzed:** 04/09/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029764.D **Time Analyzed:** 20:34

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.538	9.451	9.651	765.850	712.500	7.5
2,4-D	8.659	8.571	8.771	705.850	705.000	0.1
2,4-DCAA	7.467	7.375	7.575	764.180	750.000	1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 01:46 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.94	6.96	6.86	7.06	0.02
2,4-D	8.01	8.04	7.94	8.14	0.03
2,4,5-TP(Silvex)	8.85	8.89	8.79	8.99	0.04

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 01:46 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.48	7.48	7.38	7.58	0.00
2,4-D	8.67	8.67	8.57	8.77	0.00
2,4,5-TP(Silvex)	9.55	9.55	9.45	9.65	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029773.D **Time Analyzed:** 01:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.853	8.788	8.988	800.440	712.500	12.3
2,4-D	8.012	7.942	8.142	758.180	705.000	7.5
2,4-DCAA	6.936	6.863	7.063	810.730	750.000	8.1

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL02 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029773.D **Time Analyzed:** 01:46

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.553	9.451	9.651	813.430	712.500	14.2
2,4-D	8.673	8.571	8.771	749.720	705.000	6.3
2,4-DCAA	7.478	7.375	7.575	812.560	750.000	8.3

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 04:10 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	6.96	6.96	6.86	7.06	0.01
2,4-D	8.04	8.04	7.94	8.14	0.01
2,4,5-TP(Silvex)	8.88	8.89	8.79	8.99	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Continuing Calib Date: 04/10/2025 **Initial Calibration Date(s):** 04/02/2025 04/02/2025

Continuing Calib Time: 04:10 **Initial Calibration Time(s):** 17:32 20:44

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
2,4-DCAA	7.50	7.48	7.38	7.58	-0.01
2,4-D	8.69	8.67	8.57	8.77	-0.02
2,4,5-TP(Silvex)	9.57	9.55	9.45	9.65	-0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: RTX-CLP **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029779.D **Time Analyzed:** 04:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	8.879	8.788	8.988	715.890	712.500	0.5
2,4-D	8.035	7.942	8.142	682.280	705.000	-3.2
2,4-DCAA	6.955	6.863	7.063	735.610	750.000	-1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

GC Column: RTX-CLP2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 04/02/2025 04/02/2025

Client Sample No.: CCAL03 **Date Analyzed:** 04/10/2025

Lab Sample No.: HSTDCCC750 **Data File :** PS029779.D **Time Analyzed:** 04:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-TP(Silvex)	9.573	9.451	9.651	730.130	712.500	2.5
2,4-D	8.692	8.571	8.771	669.740	705.000	-5.0
2,4-DCAA	7.495	7.375	7.575	718.420	750.000	-4.2

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/02/2025 04/02/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	04/02/2025	16:44	PS029656.D	6.96	0.00
HSTDICC200	HSTDICC200	04/02/2025	17:32	PS029657.D	6.96	0.00
HSTDICC500	HSTDICC500	04/02/2025	17:56	PS029658.D	6.96	0.00
HSTDICC750	HSTDICC750	04/02/2025	18:44	PS029659.D	6.96	0.00
HSTDICC1000	HSTDICC1000	04/02/2025	19:32	PS029660.D	6.96	0.00
HSTDICC1500	HSTDICC1500	04/02/2025	20:44	PS029661.D	6.96	0.00
I.BLK	I.BLK	04/09/2025	20:10	PS029763.D	6.94	0.00
HSTDCCC750	HSTDCCC750	04/09/2025	20:34	PS029764.D	6.94	0.00
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	21:46	PS029766.D	6.94	0.00
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	22:10	PS029767.D	6.94	0.00
PB167536BL	PB167536BL	04/09/2025	22:34	PS029768.D	6.94	0.00
PB167536BS	PB167536BS	04/09/2025	22:58	PS029769.D	6.94	0.00
PB167517TB	PB167517TB	04/09/2025	23:47	PS029771.D	6.94	0.00
I.BLK	I.BLK	04/10/2025	00:10	PS029772.D	6.94	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	01:46	PS029773.D	6.94	0.00
B-158-SB01	Q1744-02	04/10/2025	02:11	PS029774.D	6.94	0.00
B-158-SB02	Q1744-04	04/10/2025	02:35	PS029775.D	6.96	0.00
I.BLK	I.BLK	04/10/2025	03:46	PS029778.D	6.96	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	04:10	PS029779.D	6.96	0.00

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** ECD_S

GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 04/02/2025 04/02/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
I.BLK	I.BLK	04/02/2025	16:44	PS029656.D	7.48	0.00
HSTDICC200	HSTDICC200	04/02/2025	17:32	PS029657.D	7.48	0.00
HSTDICC500	HSTDICC500	04/02/2025	17:56	PS029658.D	7.48	0.00
HSTDICC750	HSTDICC750	04/02/2025	18:44	PS029659.D	7.48	0.00
HSTDICC1000	HSTDICC1000	04/02/2025	19:32	PS029660.D	7.48	0.00
HSTDICC1500	HSTDICC1500	04/02/2025	20:44	PS029661.D	7.48	0.00
I.BLK	I.BLK	04/09/2025	20:10	PS029763.D	7.47	0.00
HSTDCCC750	HSTDCCC750	04/09/2025	20:34	PS029764.D	7.47	0.00
WC-LIQUID-20250404MS	Q1739-02MS	04/09/2025	21:46	PS029766.D	7.47	0.00
WC-LIQUID-20250404MSD	Q1739-02MSD	04/09/2025	22:10	PS029767.D	7.47	0.00
PB167536BL	PB167536BL	04/09/2025	22:34	PS029768.D	7.47	0.00
PB167536BS	PB167536BS	04/09/2025	22:58	PS029769.D	7.47	0.00
PB167517TB	PB167517TB	04/09/2025	23:47	PS029771.D	7.47	0.00
I.BLK	I.BLK	04/10/2025	00:10	PS029772.D	7.47	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	01:46	PS029773.D	7.48	0.00
B-158-SB01	Q1744-02	04/10/2025	02:11	PS029774.D	7.48	0.00
B-158-SB02	Q1744-04	04/10/2025	02:35	PS029775.D	7.50	0.00
I.BLK	I.BLK	04/10/2025	03:46	PS029778.D	7.50	0.00
HSTDCCC750	HSTDCCC750	04/10/2025	04:10	PS029779.D	7.50	0.00

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB167536BS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Lab Sample ID: PB167536BS **Date(s) Analyzed:** 04/09/2025 04/09/2025

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	8.02	7.97	8.07	5.70	1.8
	2	8.66	8.61	8.71	5.60	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	5.70	1.7
	2	9.54	9.49	9.59	5.80	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-LIQUID-20250404MS

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Lab Sample ID: Q1739-02MS **Date(s) Analyzed:** 04/09/2025 04/09/2025

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	8.02	7.97	8.07	57.2	2.8
	2	8.66	8.61	8.71	58.8	
2,4,5-TP(Silvex)	1	8.86	8.81	8.91	51.8	15.8
	2	9.54	9.49	9.59	60.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

WC-LIQUID-20250404MSD

Contract: PORT06

Lab Code: CHEM **Case No.:** Q1744 **SAS No.:** Q1744 **SDG NO.:** Q1744

Lab Sample ID: Q1739-02MSD **Date(s) Analyzed:** 04/09/2025 04/09/2025

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	8.86	8.81	8.91	53.4	14.9
	2	9.54	9.49	9.59	62.0	
2,4-D	1	8.02	7.97	8.07	58.5	2.5
	2	8.66	8.61	8.71	60.0	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029771.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 23:47
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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	6.940	7.471	1266.9E6	400.7E6	621.373	587.953
	Target Compounds						

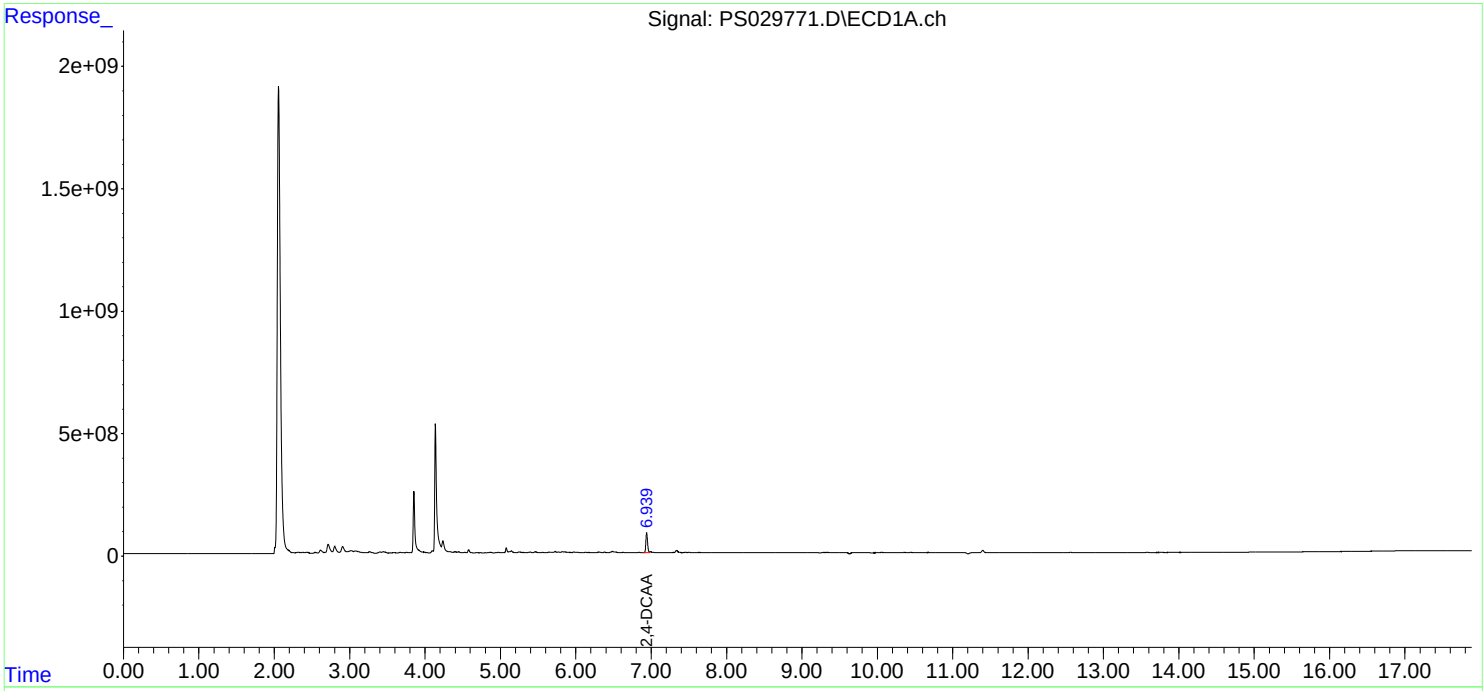
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

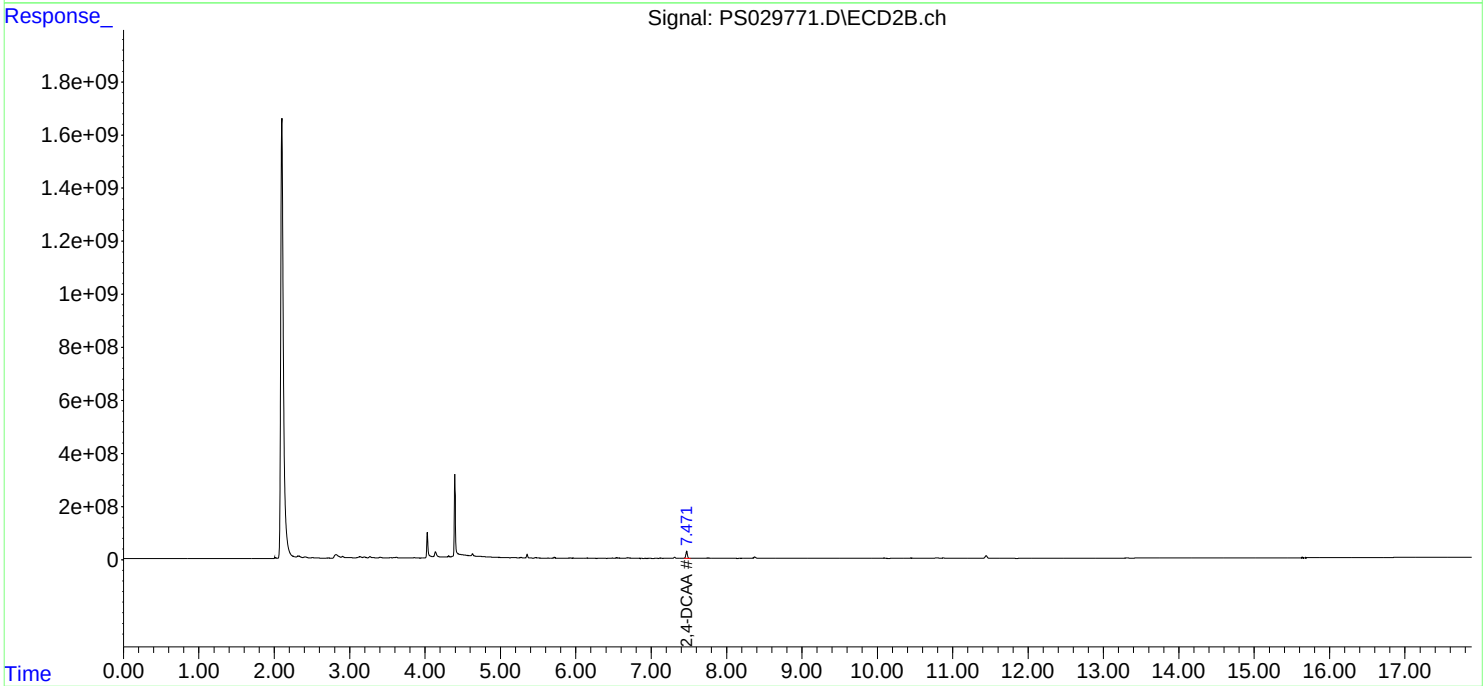
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029771.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 23:47
Operator : AR\AJ
Sample : PB167517TB
Misc :
ALS Vial : 19 Sample Multiplier: 1

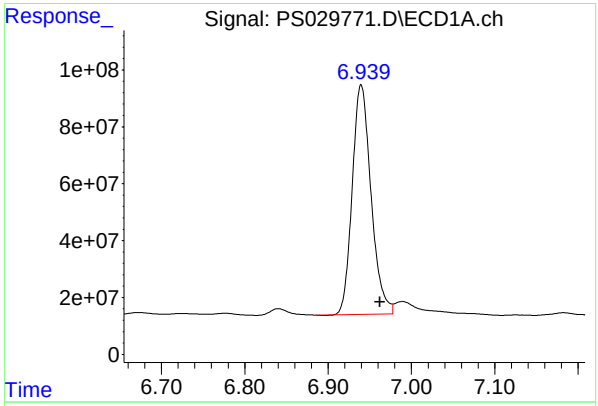
Instrument :
ECD_S
ClientSampleId :
PB167517TB

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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



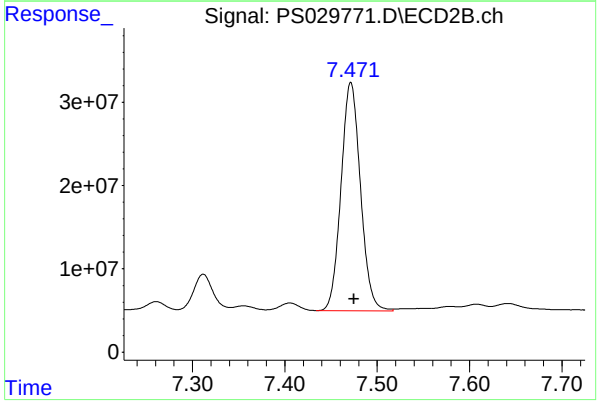




#4 2,4-DCAA

R.T.: 6.940 min
Delta R.T.: -0.023 min
Response: 1266873172
Conc: 621.37 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167517TB



#4 2,4-DCAA

R.T.: 7.471 min
Delta R.T.: -0.003 min
Response: 400697676
Conc: 587.95 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029774.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 02:11
Operator : AR\AJ
Sample : Q1744-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-158-SB01

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:45:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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	6.935	7.478	1483.9E6	472.0E6	727.838m	692.638
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

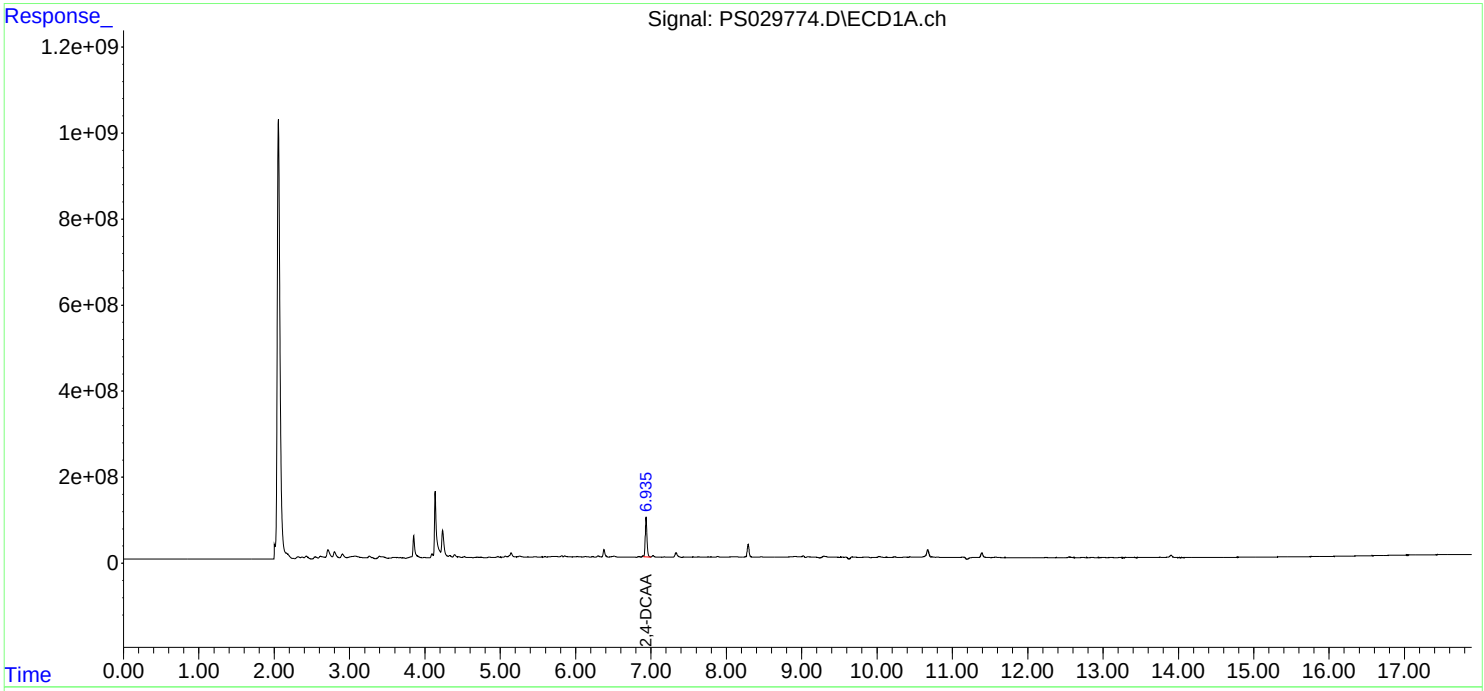
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029774.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 02:11
Operator : AR\AJ
Sample : Q1744-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

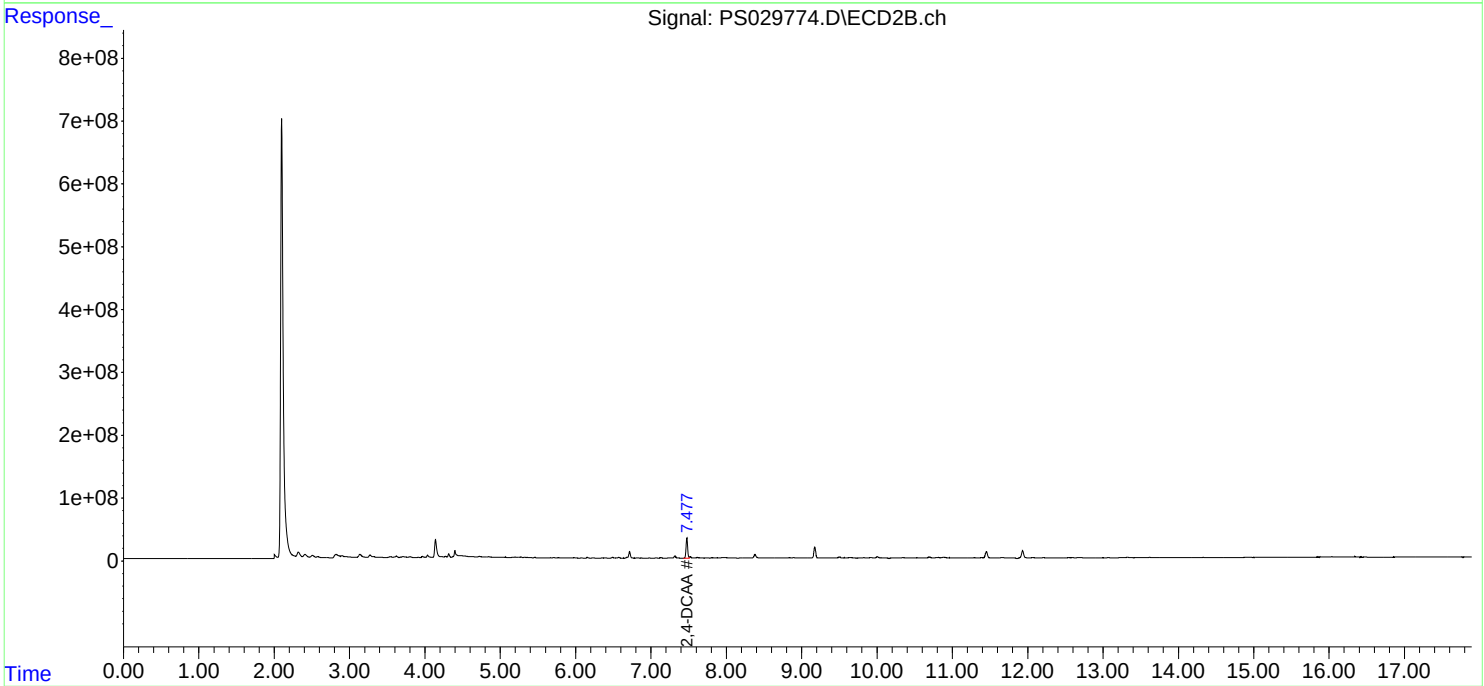
Instrument :
ECD_S
ClientSampleId :
B-158-SB01

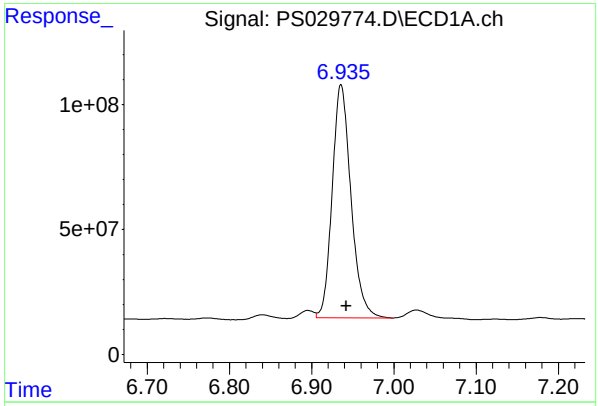
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:45:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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







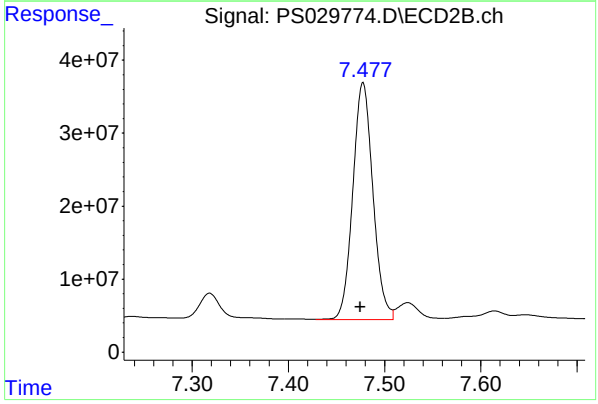
#4 2,4-DCAA

R.T.: 6.935 min
Delta R.T.: -0.007 min
Response: 1483938264
Conc: 727.84 ng/ml

Instrument :
ECD_S
ClientSampleId :
B-158-SB01

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



#4 2,4-DCAA

R.T.: 7.478 min
Delta R.T.: 0.003 min
Response: 472042007
Conc: 692.64 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029775.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 02:35
Operator : AR\AJ
Sample : Q1744-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
B-158-SB02

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:25:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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	6.956	7.496	1253.6E6	390.6E6	614.858m	573.081m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

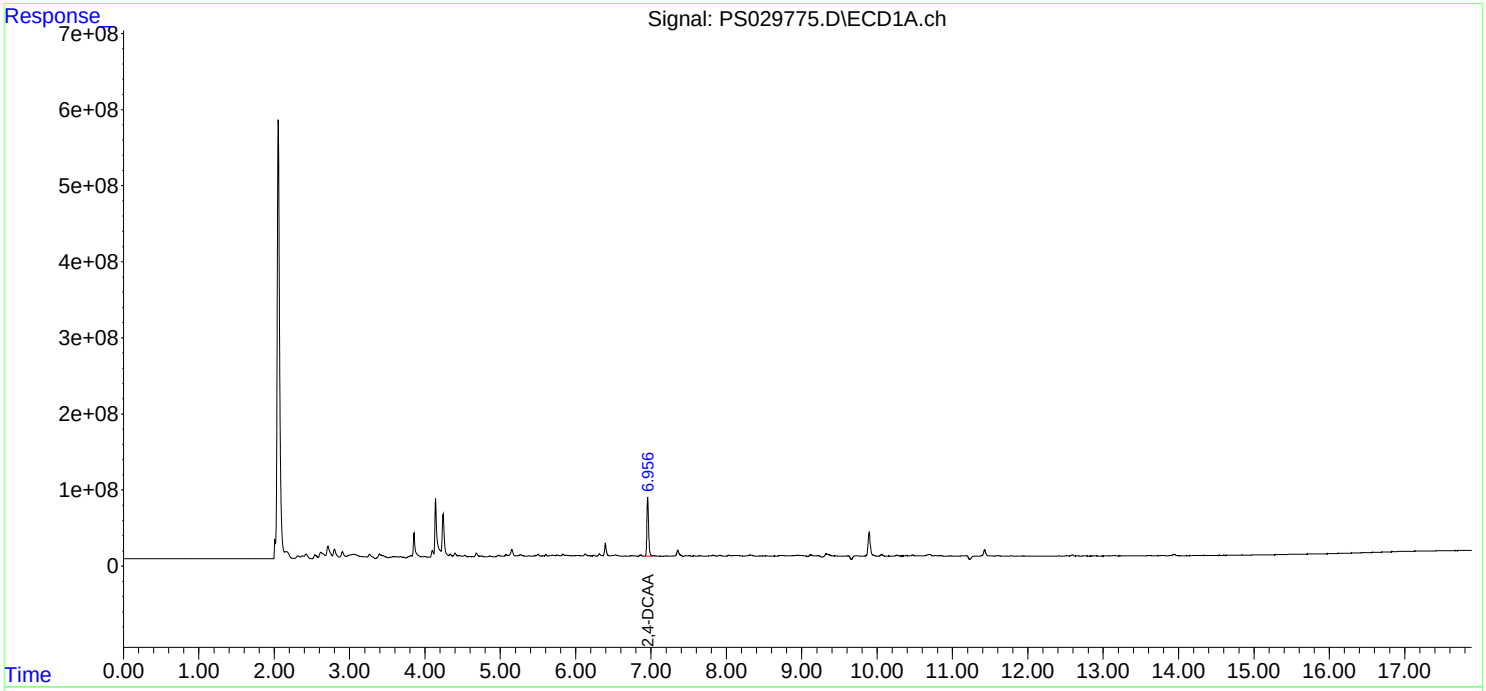
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029775.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Apr 2025 02:35
Operator : AR\AJ
Sample : Q1744-04
Misc :
ALS Vial : 21 Sample Multiplier: 1

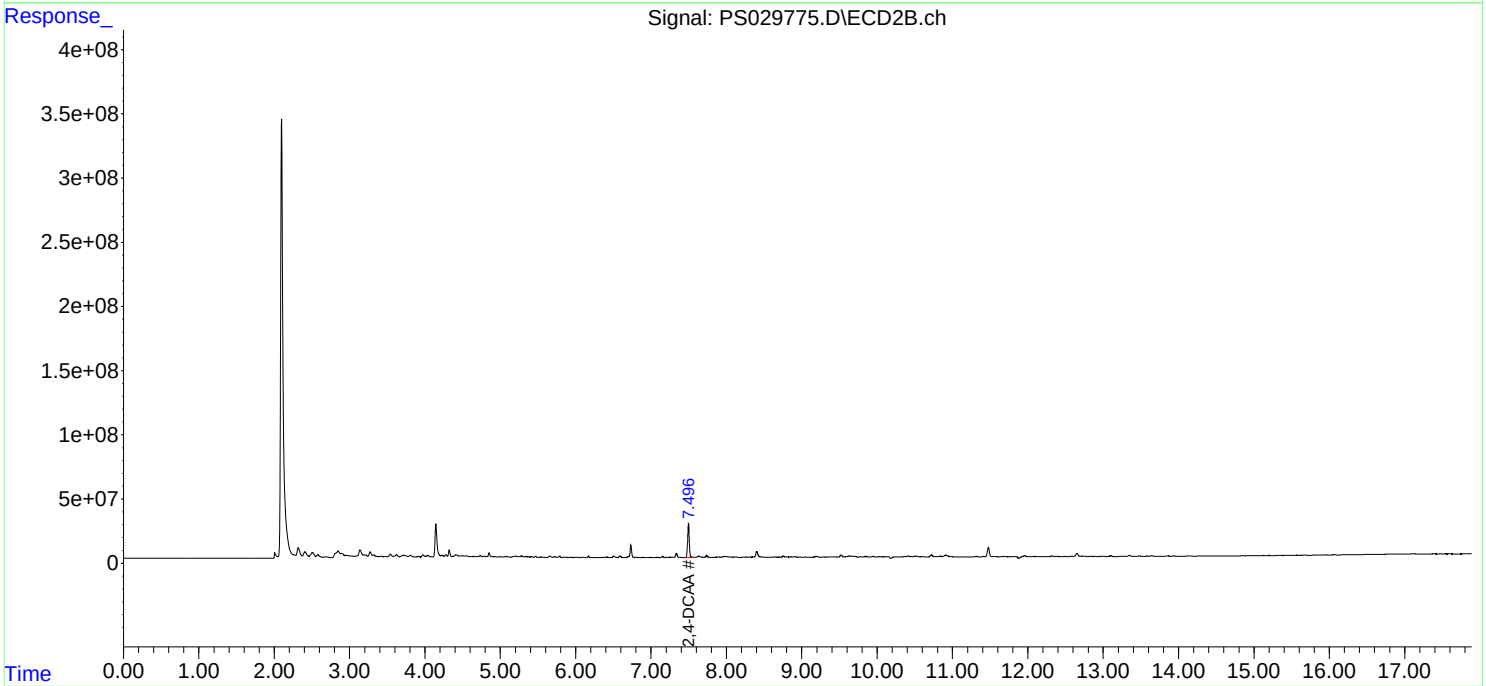
Instrument :
ECD_S
ClientSampleId :
B-158-SB02

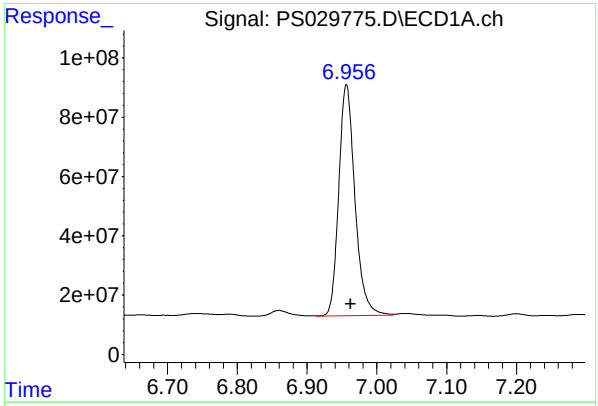
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:25:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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







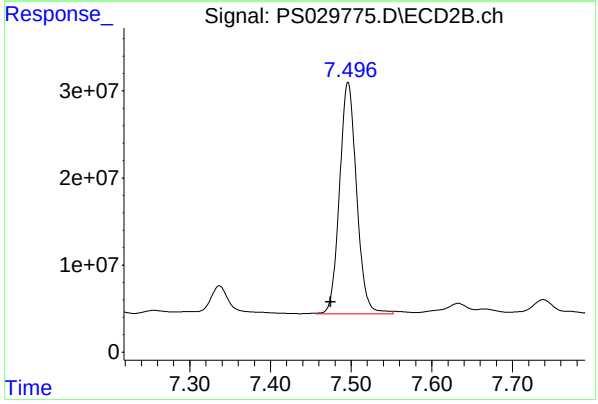
#4 2,4-DCAA

R.T.: 6.956 min
Delta R.T.: -0.007 mi
Response: 1253590302
Conc: 614.86 ng/m

Instrument :
ECD_S
ClientSampleId :
B-158-SB02

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



#4 2,4-DCAA

R.T.: 7.496 min
Delta R.T.: 0.021 min
Response: 390562149
Conc: 573.08 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029768.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:34
Operator : AR\AJ
Sample : PB167536BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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 :
PB167536BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
4) S	2,4-DCAA	6.940	7.470	1139.5E6	367.3E6	558.888m	538.995
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

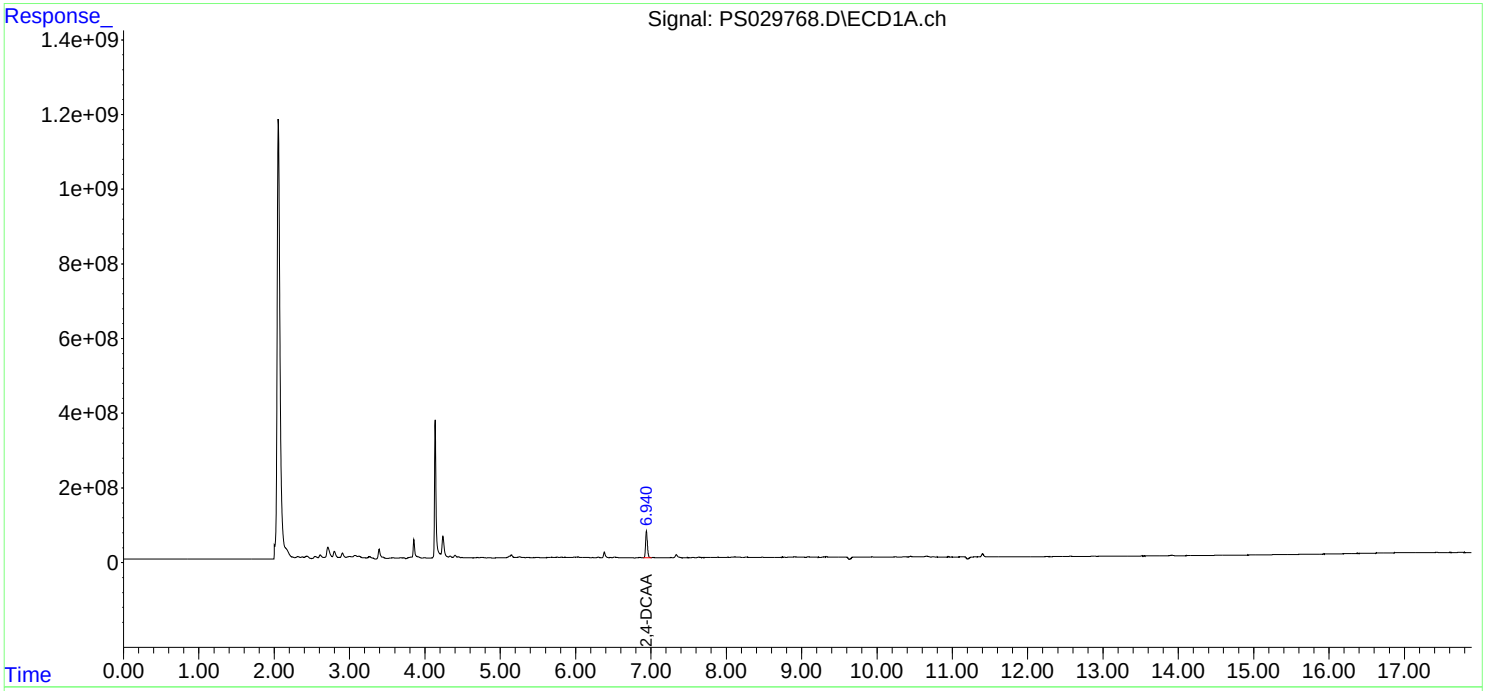
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029768.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:34
Operator : AR\AJ
Sample : PB167536BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

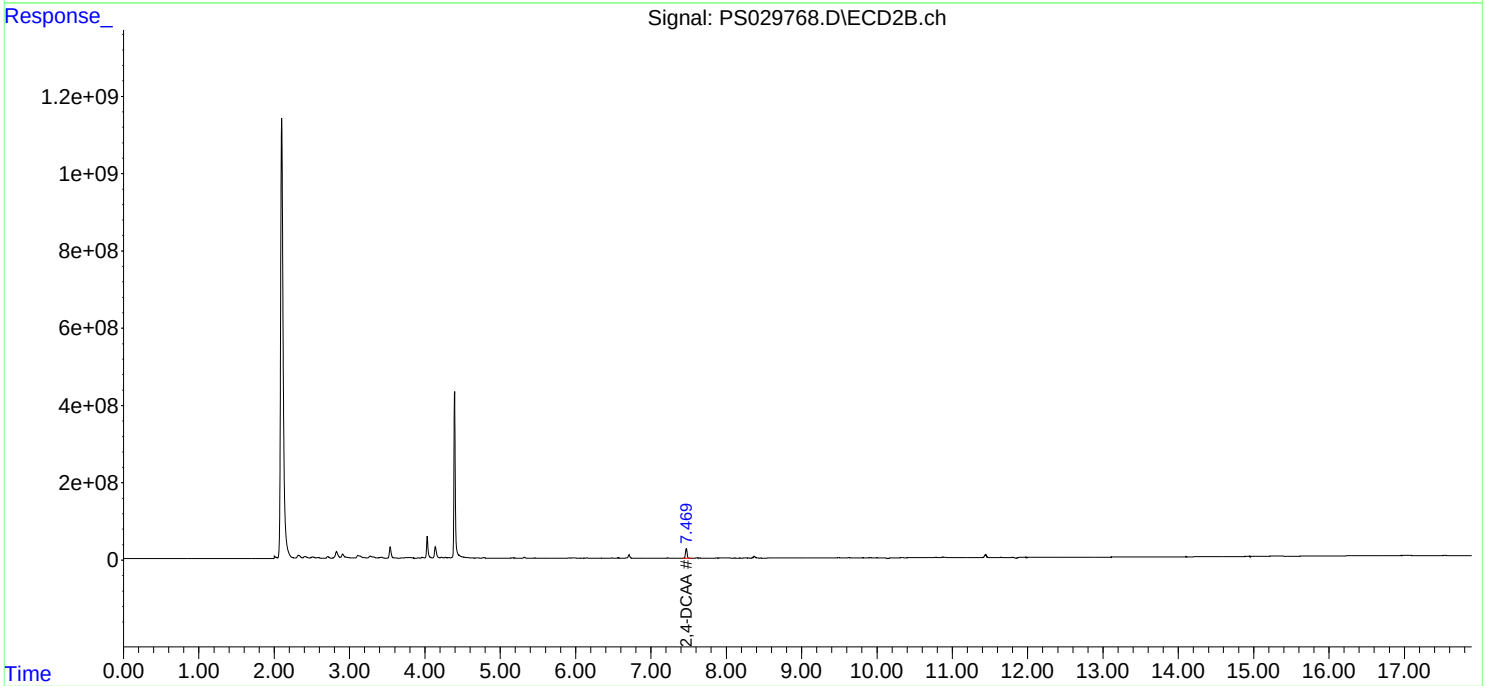
Instrument :
ECD_S
ClientSampleId :
PB167536BL

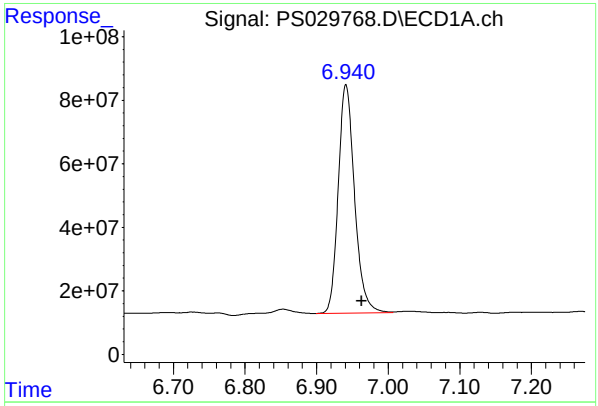
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 05:23:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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







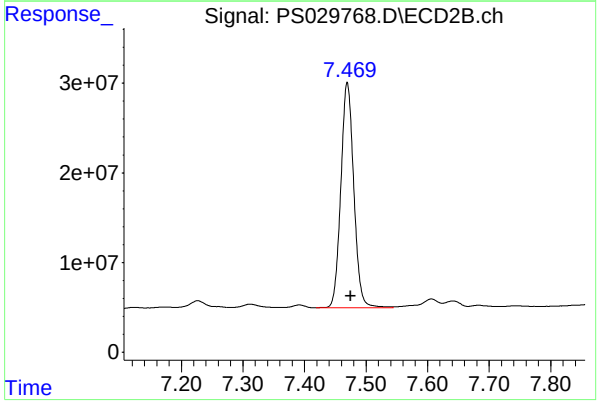
#4 2,4-DCAA

R.T.: 6.940 min
Delta R.T.: -0.022 min
Response: 1139477452
Conc: 558.89 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB167536BL

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025



#4 2,4-DCAA

R.T.: 7.470 min
Delta R.T.: -0.005 min
Response: 367331942
Conc: 538.99 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029769.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:58
Operator : AR\AJ
Sample : PB167536BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB167536BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:43:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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	6.941	7.471	1134.4E6	396.0E6	556.398	581.104
	Target Compounds						
1) T	Dalapon	2.459	2.531	1730.5E6	761.5E6	510.107	479.628
2) T	3,5-DICHL...	6.147	6.467	1676.7E6	509.7E6	557.474m	527.858
3) T	4-Nitroph...	6.733	7.005	800.5E6	361.5E6	569.859	509.911
5) T	DICAMBA	7.117	7.657	4501.7E6	2033.3E6	540.944	550.533
6) T	MCPP	7.294	7.763	282.7E6	84256237	52.157	49.901
7) T	MCPA	7.436	7.993	399.8E6	114.2E6	55.001m	50.180
8) T	DICHLORPROP	7.797	8.351	1212.3E6	555.7E6	551.177	575.211
9) T	2,4-D	8.017	8.664	1383.4E6	602.3E6	574.108	558.472
10) T	Pentachlo...	8.296	9.166	17317.3E6	10487.2E6	569.554	584.974
11) T	2,4,5-TP ...	8.858	9.543	6635.1E6	4158.4E6	571.236m	576.516
12) T	2,4,5-T	9.140	9.948	6569.0E6	3858.9E6	570.999	575.707
13) T	2,4-DB	9.699	10.504	995.0E6	397.6E6	547.661	535.844
14) T	DINOSEB	10.861	10.876	4617.3E6	2783.0E6	546.941	544.323
15) T	Picloram	10.678	11.913	8659.2E6	5769.7E6	558.644	487.943m
16) T	DCPA	11.160	11.906	8032.8E6	5267.1E6	575.164	595.110m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

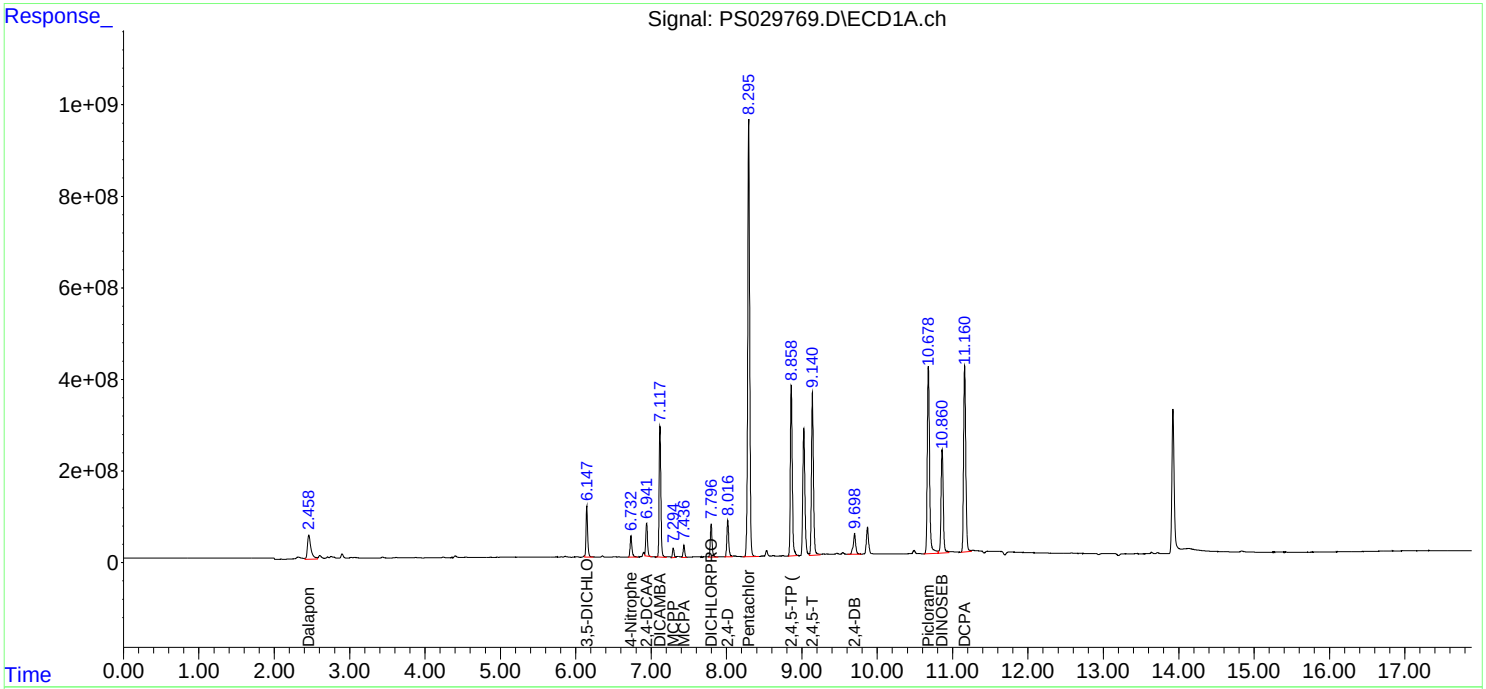
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029769.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:58
Operator : AR\AJ
Sample : PB167536BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

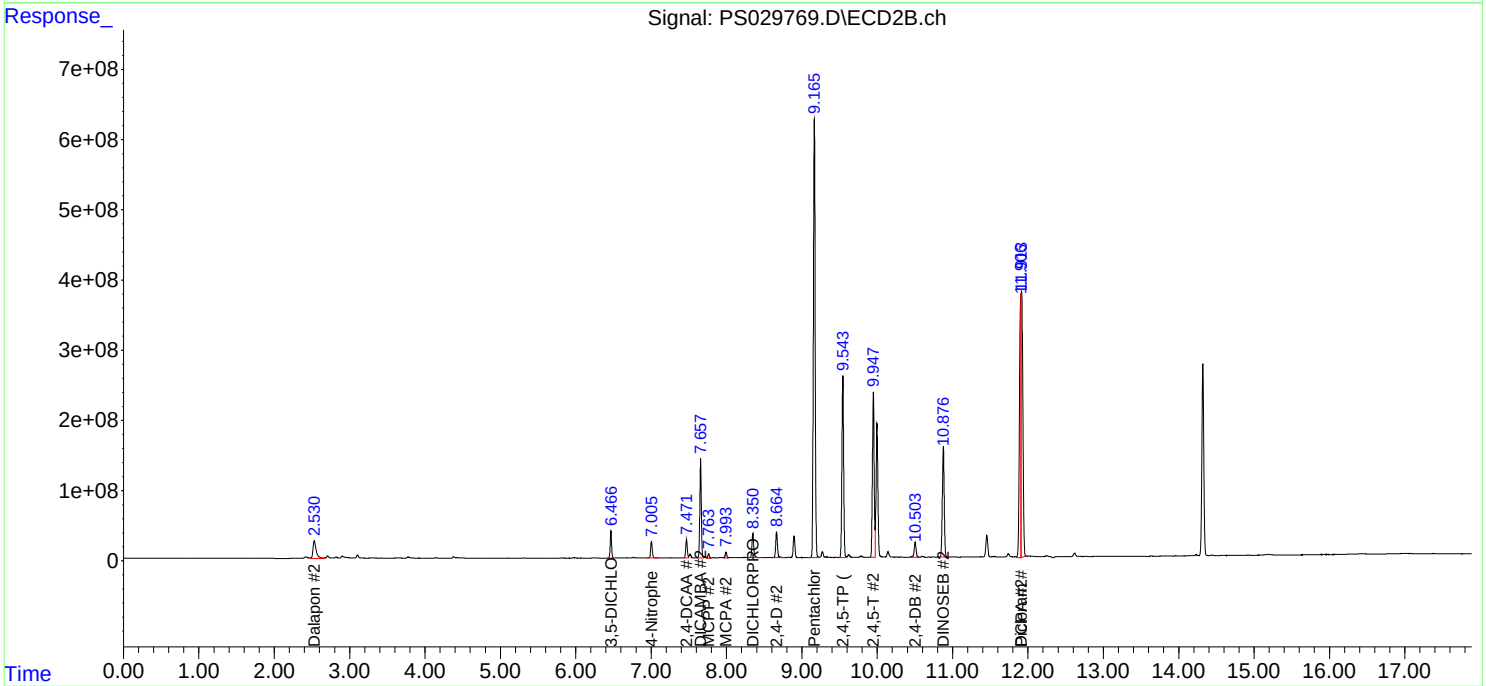
Instrument :
ECD_S
ClientSampleId :
PB167536BS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:43:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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\PS040925\
Data File : PS029766.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:46
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:39:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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	6.943	7.469	1200.1E6	439.8E6	588.631	645.384
		Target Compounds						
1)	T	Dalapon	2.457	2.530	1791.8E6	950.6E6	528.187	598.773
2)	T	3,5-DICHL...	6.149	6.465	1723.6E6	579.5E6	573.043	600.173
3)	T	4-Nitroph...	6.734	7.002	754.1E6	384.6E6	536.829	542.511
5)	T	DICAMBA	7.120	7.655	4299.3E6	2056.0E6	516.625	556.682
6)	T	MCPP	7.297	7.761	348.9E6	83841621	64.368	49.655m
7)	T	MCPA	7.439	7.990	450.7E6	138.1E6	62.001m	60.694m
8)	T	DICHLORPROP	7.799	8.349	1149.3E6	609.0E6	522.537	630.385
9)	T	2,4-D	8.019	8.662	1378.2E6	634.3E6	571.968	588.160
10)	T	Pentachlo...	8.299	9.163	15184.4E6	10303.6E6	499.404	574.731
11)	T	2,4,5-TP ...	8.863	9.541	6022.4E6	4374.8E6	518.489	606.518
12)	T	2,4,5-T	9.145	9.946	5691.0E6	3737.2E6	494.680	557.561
13)	T	2,4-DB	9.704	10.502	754.5E6	366.4E6	415.314	493.786
14)	T	DINOSEB	10.866	10.874	2867.8E6	2055.3E6	339.709	401.989
15)	T	Picloram	10.684	11.907	6786.1E6	4984.8E6	437.803	421.568m
16)	T	DCPA	11.167	11.900	6116.3E6	5627.7E6	437.940	635.847m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

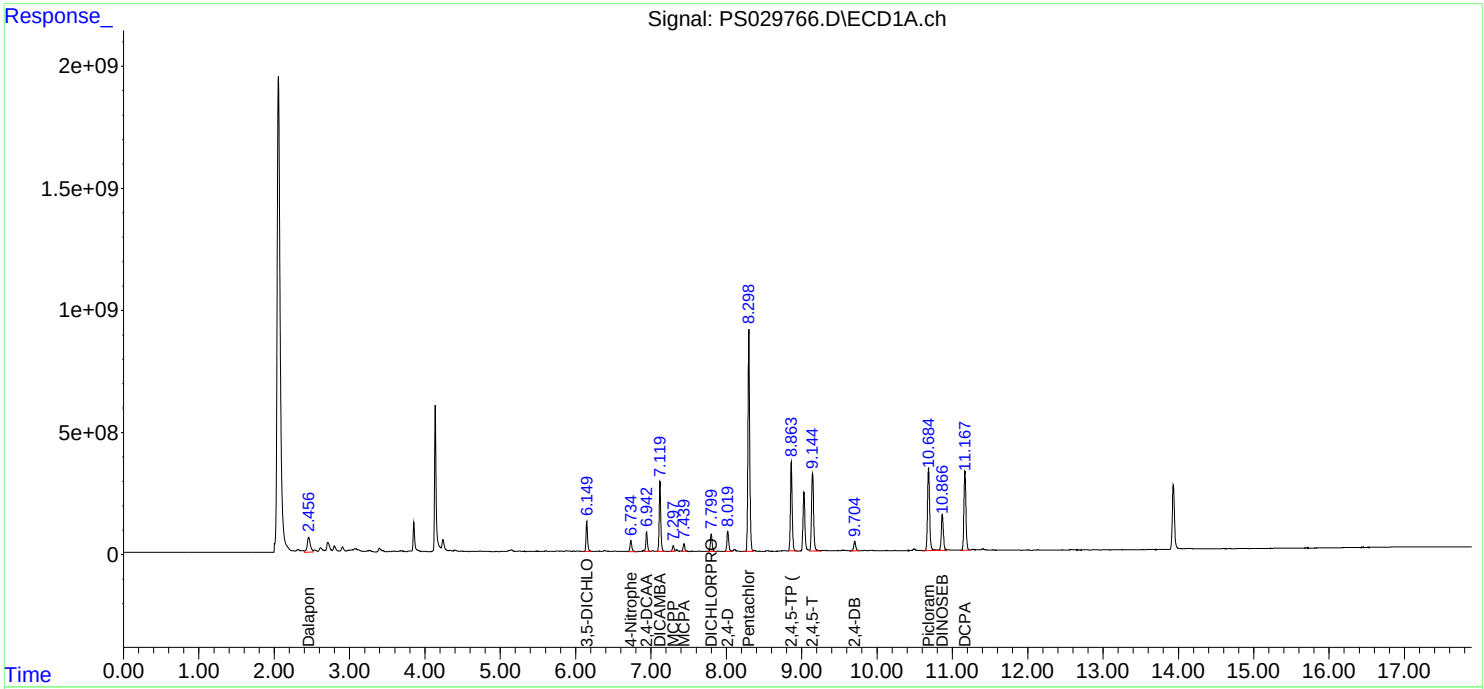
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029766.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 21:46
Operator : AR\AJ
Sample : Q1739-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

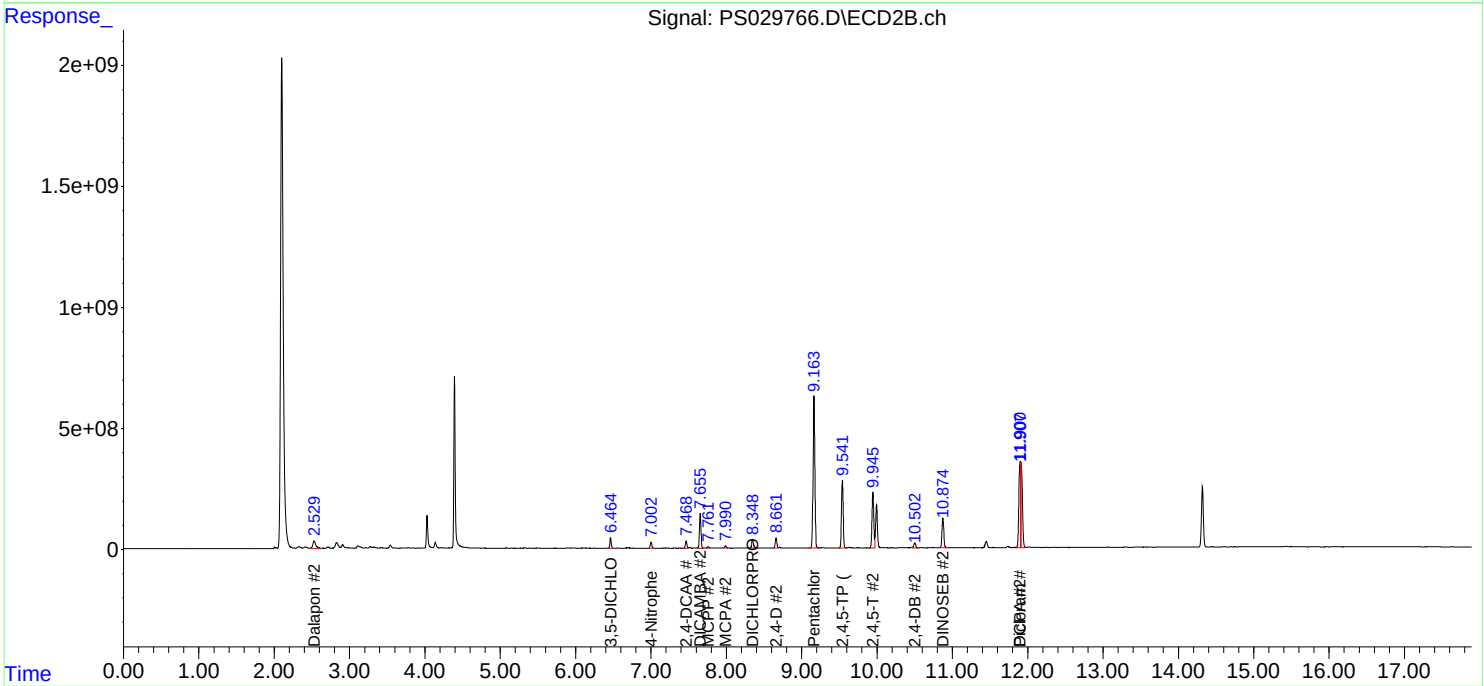
Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:39:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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\PS040925\
Data File : PS029767.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:41:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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	6.942	7.469	1209.4E6	447.1E6	593.207	656.002
	Target Compounds						
1) T	Dalapon	2.456	2.530	1811.3E6	953.9E6	533.925	600.870
2) T	3,5-DICHL...	6.148	6.465	1768.2E6	592.7E6	587.878	613.865
3) T	4-Nitroph...	6.733	7.002	769.1E6	391.1E6	547.506	551.601
5) T	DICAMBA	7.118	7.655	4339.5E6	2094.0E6	521.456	566.951
6) T	MCPP	7.296	7.761	336.5E6	89759176	62.085	53.160m
7) T	MCPA	7.438	7.991	439.0E6	161.6E6	60.398m	71.038
8) T	DICHLORPROP	7.798	8.349	1167.4E6	661.9E6	530.751	685.070 #
9) T	2,4-D	8.018	8.662	1409.9E6	647.0E6	585.137	599.934
10) T	Pentachlo...	8.297	9.163	15392.3E6	10502.8E6	506.244	585.844
11) T	2,4,5-TP ...	8.861	9.541	6201.6E6	4468.7E6	533.916m	619.541
12) T	2,4,5-T	9.143	9.945	5778.0E6	3824.0E6	502.243	570.509
13) T	2,4-DB	9.702	10.502	702.5E6	374.4E6	386.667	504.600 #
14) T	DINOSEB	10.864	10.874	2841.4E6	2046.1E6	336.583	400.182
15) T	Picloram	10.682	11.907	6873.3E6	5045.5E6	443.430	426.700m
16) T	DCPA	11.164	11.900	6188.4E6	5335.8E6	443.099	602.875m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

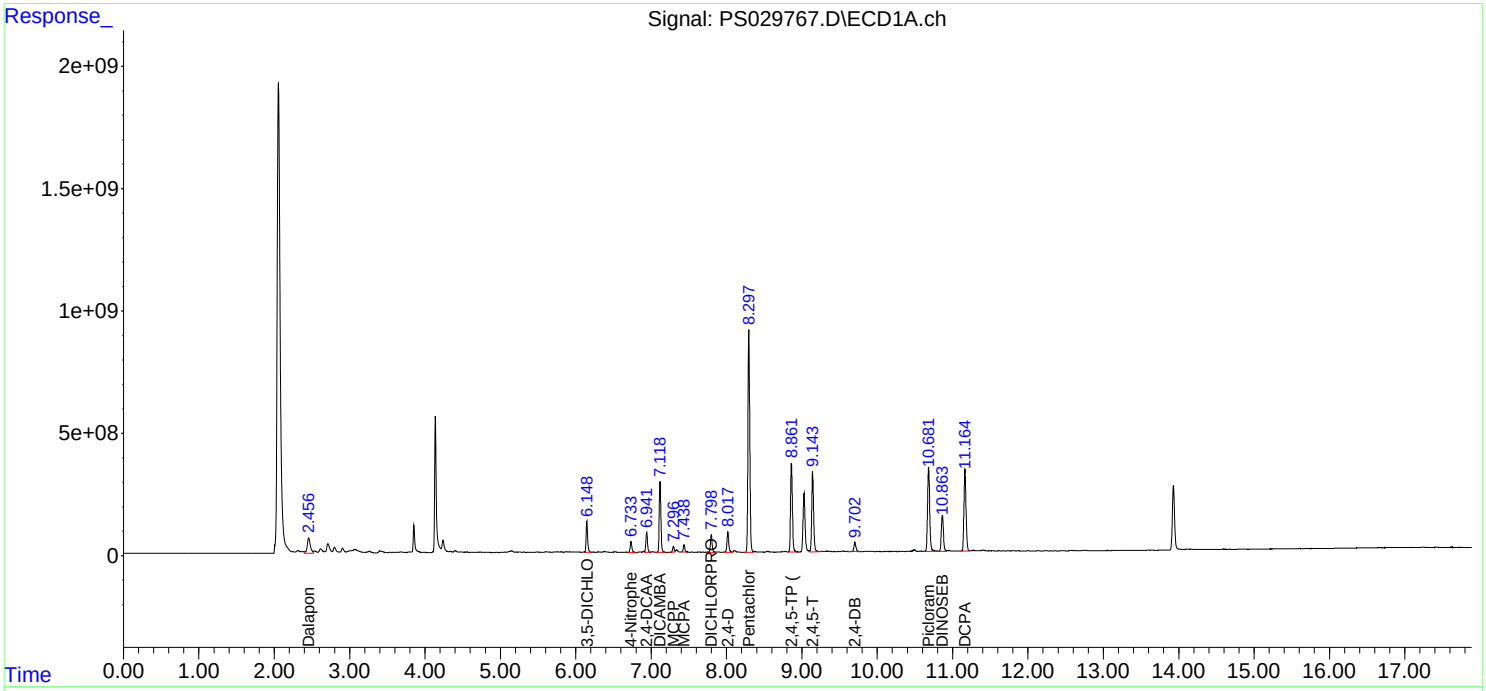
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS040925\
Data File : PS029767.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 09 Apr 2025 22:10
Operator : AR\AJ
Sample : Q1739-02MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

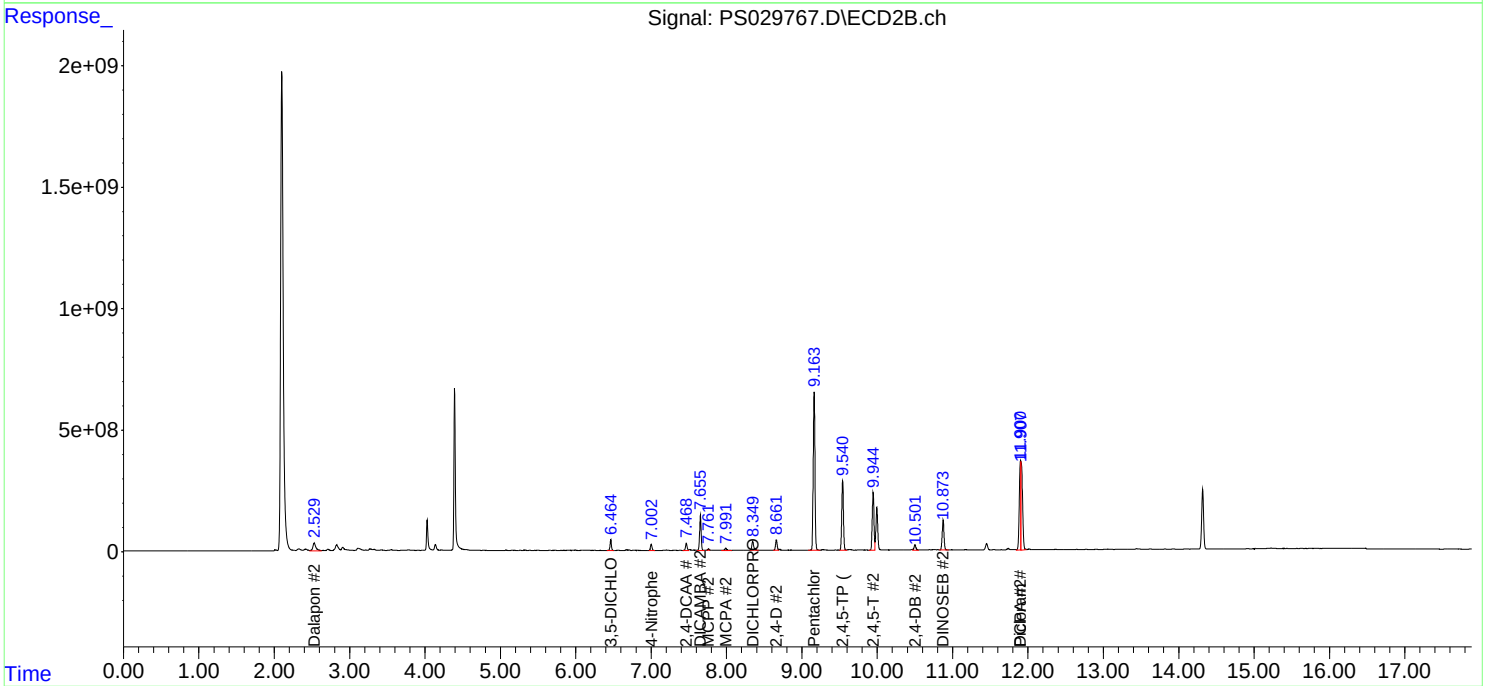
Instrument :
ECD_S
ClientSampleId :
WC-LIQUID-20250404MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 04/10/2025
Supervised By :mohammad ahmed 04/11/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 10 06:41:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS040225.M
Quant Title : 8080.M
QLast Update : Wed Apr 02 23:52:55 2025
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





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

Manual Integration Report

Sequence:	PS040225	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC750	PS029659.D	DCPA #2	Abdul	4/3/2025 9:24:54 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC750	PS029659.D	Picloram #2	Abdul	4/3/2025 9:24:54 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1000	PS029660.D	DCPA #2	Abdul	4/3/2025 9:24:59 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1000	PS029660.D	Picloram #2	Abdul	4/3/2025 9:24:59 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1500	PS029661.D	DCPA #2	Abdul	4/3/2025 9:25:02 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICC1500	PS029661.D	Picloram #2	Abdul	4/3/2025 9:25:02 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICV750	PS029662.D	DCPA #2	Abdul	4/3/2025 9:25:06 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software
HSTDICV750	PS029662.D	Picloram #2	Abdul	4/3/2025 9:25:06 AM	mohammad	4/4/2025 7:53:55	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps040925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029753.D	DCPA #2	Abdul	4/10/2025 9:08:08 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029753.D	MCPA	Abdul	4/10/2025 9:08:08 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029753.D	Picloram #2	Abdul	4/10/2025 9:08:08 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029764.D	DCPA #2	Abdul	4/10/2025 9:07:34 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029764.D	MCPA	Abdul	4/10/2025 9:07:34 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029764.D	Picloram #2	Abdul	4/10/2025 9:07:34 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	DCPA #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	MCPA	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	MCPA #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	MCPP #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MS	PS029766.D	Picloram #2	Abdul	4/10/2025 4:51:34 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	2,4,5-TP (SILVEX)	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	DCPA #2	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps040925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1739-02MSD	PS029767.D	MCPA	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	MCPP #2	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1739-02MSD	PS029767.D	Picloram #2	Abdul	4/10/2025 9:34:24 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BL	PS029768.D	2,4-DCAA	Abdul	4/10/2025 9:07:26 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	2,4,5-TP (SILVEX)	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	3,5-DICHLOROBENZOIC ACID	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	DCPA #2	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	MCPA	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
PB167536BS	PS029769.D	Picloram #2	Abdul	4/10/2025 4:51:29 PM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4,5-T #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4,5-TP (SILVEX)	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4-DB	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	2,4-DCAA	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps040925	Instrument	ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS029773.D	4-Nitrophenol	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	DCPA #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	MCPA	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	Pentachlorophenol #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029773.D	Picloram #2	Abdul	4/10/2025 9:07:14 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1744-02	PS029774.D	2,4-DCAA	Abdul	4/10/2025 9:07:09 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1744-04	PS029775.D	2,4-DCAA	Abdul	4/10/2025 9:07:05 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
Q1744-04	PS029775.D	2,4-DCAA #2	Abdul	4/10/2025 9:07:05 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	Dalapon #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	DCPA #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	MCPA #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software
HSTDCCC750	PS029779.D	Picloram #2	Abdul	4/10/2025 9:06:51 AM	mohammad	4/11/2025 1:23:27	Peak Integrated by Software

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Manual Integration Report

Sequence:	ps040925	Instrument	ECD_s

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

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040225

Review By	Abdul	Review On	4/3/2025 9:25:38 AM		
Supervise By	mohammad	Supervise On	4/4/2025 7:53:55 AM		
SubDirectory	PS040225	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029655.D	02 Apr 2025 16:20	AR\AJ	Ok
2	I.BLK	PS029656.D	02 Apr 2025 16:44	AR\AJ	Ok
3	HSTDICC200	PS029657.D	02 Apr 2025 17:32	AR\AJ	Ok
4	HSTDICC500	PS029658.D	02 Apr 2025 17:56	AR\AJ	Ok
5	HSTDICC750	PS029659.D	02 Apr 2025 18:44	AR\AJ	Ok,M
6	HSTDICC1000	PS029660.D	02 Apr 2025 19:32	AR\AJ	Ok,M
7	HSTDICC1500	PS029661.D	02 Apr 2025 20:44	AR\AJ	Ok,M
8	HSTDICV750	PS029662.D	02 Apr 2025 21:32	AR\AJ	Ok,M
9	I.BLK	PS029663.D	02 Apr 2025 21:56	AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS029751.D	09 Apr 2025 09:01	AR\AJ	Ok
2	I.BLK	PS029752.D	09 Apr 2025 09:25	AR\AJ	Ok
3	HSTDCCC750	PS029753.D	09 Apr 2025 11:33	AR\AJ	Ok,M
4	PB167511BS	PS029754.D	09 Apr 2025 12:38	AR\AJ	Ok,M
5	PB167527BL	PS029755.D	09 Apr 2025 16:34	AR\AJ	Ok
6	PB167527BS	PS029756.D	09 Apr 2025 16:58	AR\AJ	Ok,M
7	Q1745-01	PS029757.D	09 Apr 2025 17:46	AR\AJ	Ok,M
8	Q1745-09	PS029758.D	09 Apr 2025 18:10	AR\AJ	Ok,M
9	Q1740-01	PS029759.D	09 Apr 2025 18:34	AR\AJ	Ok
10	Q1740-01MS	PS029760.D	09 Apr 2025 18:58	AR\AJ	Ok,M
11	Q1740-01MSD	PS029761.D	09 Apr 2025 19:22	AR\AJ	Ok,M
12	Q1743-01	PS029762.D	09 Apr 2025 19:46	AR\AJ	Ok
13	I.BLK	PS029763.D	09 Apr 2025 20:10	AR\AJ	Ok
14	HSTDCCC750	PS029764.D	09 Apr 2025 20:34	AR\AJ	Ok,M
15	Q1739-02	PS029765.D	09 Apr 2025 21:22	AR\AJ	Ok,M
16	Q1739-02MS	PS029766.D	09 Apr 2025 21:46	AR\AJ	Ok,M
17	Q1739-02MSD	PS029767.D	09 Apr 2025 22:10	AR\AJ	Ok,M
18	PB167536BL	PS029768.D	09 Apr 2025 22:34	AR\AJ	Ok,M
19	PB167536BS	PS029769.D	09 Apr 2025 22:58	AR\AJ	Ok,M
20	PB167488TB	PS029770.D	09 Apr 2025 23:22	AR\AJ	Ok,M
21	PB167517TB	PS029771.D	09 Apr 2025 23:47	AR\AJ	Ok

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	PS029772.D	10 Apr 2025 00:10	AR\AJ	Ok
23	HSTDCCC750	PS029773.D	10 Apr 2025 01:46	AR\AJ	Ok,M
24	Q1744-02	PS029774.D	10 Apr 2025 02:11	AR\AJ	Ok,M
25	Q1744-04	PS029775.D	10 Apr 2025 02:35	AR\AJ	Ok,M
26	Q1746-02	PS029776.D	10 Apr 2025 02:58	AR\AJ	Ok,M
27	Q1746-04	PS029777.D	10 Apr 2025 03:22	AR\AJ	Ok,M
28	I.BLK	PS029778.D	10 Apr 2025 03:46	AR\AJ	Ok
29	HSTDCCC750	PS029779.D	10 Apr 2025 04:10	AR\AJ	Ok,M

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 # PS040225

Review By	Abdul	Review On	4/3/2025 9:25:38 AM		
Supervise By	mohammad	Supervise On	4/4/2025 7:53:55 AM		
SubDirectory	PS040225	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029655.D	02 Apr 2025 16:20		AR\AJ	Ok
2	I.BLK	I.BLK	PS029656.D	02 Apr 2025 16:44		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS029657.D	02 Apr 2025 17:32		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS029658.D	02 Apr 2025 17:56		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS029659.D	02 Apr 2025 18:44		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS029660.D	02 Apr 2025 19:32		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS029661.D	02 Apr 2025 20:44		AR\AJ	Ok,M
8	HSTDICV750	ICVPS040225	PS029662.D	02 Apr 2025 21:32		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS029663.D	02 Apr 2025 21:56		AR\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS029751.D	09 Apr 2025 09:01		AR\AJ	Ok
2	I.BLK	I.BLK	PS029752.D	09 Apr 2025 09:25		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS029753.D	09 Apr 2025 11:33		AR\AJ	Ok,M
4	PB167511BS	PB167511BS	PS029754.D	09 Apr 2025 12:38		AR\AJ	Ok,M
5	PB167527BL	PB167527BL	PS029755.D	09 Apr 2025 16:34		AR\AJ	Ok
6	PB167527BS	PB167527BS	PS029756.D	09 Apr 2025 16:58		AR\AJ	Ok,M
7	Q1745-01	IB-6A-WC	PS029757.D	09 Apr 2025 17:46		AR\AJ	Ok,M
8	Q1745-09	IB-6.5-WC	PS029758.D	09 Apr 2025 18:10		AR\AJ	Ok,M
9	Q1740-01	TP-20	PS029759.D	09 Apr 2025 18:34		AR\AJ	Ok
10	Q1740-01MS	TP-20MS	PS029760.D	09 Apr 2025 18:58		AR\AJ	Ok,M
11	Q1740-01MSD	TP-20MSD	PS029761.D	09 Apr 2025 19:22	Comp#10 recovery fail	AR\AJ	Ok,M
12	Q1743-01	TP-16	PS029762.D	09 Apr 2025 19:46		AR\AJ	Ok
13	I.BLK	I.BLK	PS029763.D	09 Apr 2025 20:10		AR\AJ	Ok
14	HSTDCCC750	HSTDCCC750	PS029764.D	09 Apr 2025 20:34		AR\AJ	Ok,M
15	Q1739-02	WC-LIQUID-20250404	PS029765.D	09 Apr 2025 21:22		AR\AJ	Ok,M
16	Q1739-02MS	WC-LIQUID-20250404	PS029766.D	09 Apr 2025 21:46	Comp#5,8 recovery fail	AR\AJ	Ok,M
17	Q1739-02MSD	WC-LIQUID-20250404	PS029767.D	09 Apr 2025 22:10	Comp#5,7,8 recovery fail	AR\AJ	Ok,M
18	PB167536BL	PB167536BL	PS029768.D	09 Apr 2025 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 # PS040925

Review By	Abdul	Review On	4/10/2025 9:08:39 AM		
Supervise By	mohammad	Supervise On	4/11/2025 1:23:27 AM		
SubDirectory	PS040925	HP Acquire Method		HP Processing Method	ps040225 8151

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24064,PP24065,PP24066,PP24067,PP24068
CCC	PP24066
Internal Standard/PEM	
ICV/I.BLK	PP24069,PP24070
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167536BS	PB167536BS	PS029769.D	09 Apr 2025 22:58		AR\AJ	Ok,M
20	PB167488TB	PB167488TB	PS029770.D	09 Apr 2025 23:22		AR\AJ	Ok,M
21	PB167517TB	PB167517TB	PS029771.D	09 Apr 2025 23:47		AR\AJ	Ok
22	I.BLK	I.BLK	PS029772.D	10 Apr 2025 00:10		AR\AJ	Ok
23	HSTDCCC750	HSTDCCC750	PS029773.D	10 Apr 2025 01:46	Comp#13 high in 1st column	AR\AJ	Ok,M
24	Q1744-02	B-158-SB01	PS029774.D	10 Apr 2025 02:11		AR\AJ	Ok,M
25	Q1744-04	B-158-SB02	PS029775.D	10 Apr 2025 02:35		AR\AJ	Ok,M
26	Q1746-02	B-149-SB01	PS029776.D	10 Apr 2025 02:58		AR\AJ	Ok,M
27	Q1746-04	B-149-SB02	PS029777.D	10 Apr 2025 03:22		AR\AJ	Ok,M
28	I.BLK	I.BLK	PS029778.D	10 Apr 2025 03:46		AR\AJ	Ok
29	HSTDCCC750	HSTDCCC750	PS029779.D	10 Apr 2025 04:10		AR\AJ	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

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 : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : IZ

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	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JP

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JP 104 Room	9129 IZ
	Preparation Group	Analysis Group

04/09/25

04/09/25 IZ

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

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
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB167517

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167517

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
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1748 **WorkList ID :** 188805 **Department :** TCLP Extraction **Date :** 04-08-2025 12:17:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1743-04	TP-16	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L33	04/07/2025	1311
Q1744-02	B-158-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1744-04	B-158-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1745-04	IB-6A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1745-12	IB-6.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/07/2025	1311
Q1746-02	B-149-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/05/2025	1311
Q1746-04	B-149-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	04/06/2025	1311
Q1748-04	IB-1.5-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1748-08	IB-2A-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/08/2025	1311
Q1749-04	TP-14	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	04/07/2025	1311
Q1752-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-04	TP-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-06	TP-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1752-08	TP-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1753-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-02	TP-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311
Q1754-04	TP-1-CONCRETE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	04/08/2025	1311

Date/Time 04/08/25 16:25

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 04/08/25 18:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167536

SOP ID:	M8151A-Herbicide-22				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/09/2025
Matrix :	Water			**Extraction Start Time :**	12:55
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	04/09/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	18:50
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24218
Surrogate	1.0ML	5000 PPB	PP24424
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	E3881
Acidified Na2SO4	N/A	EP2576
NAOH 6N	N/A	EP2553
1:3 SULPHURIC ACID	N/A	EP2587
NACL	N/A	M4459
ISO OCTANE	N/A	E3554
Diazomethane	N/A	EP2603
Hexane	N/A	E3916
N/A	N/A	N/A
N/A	N/A	N/A
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 6N NaOH>12 prior to Hydrolysis, PH adjusted with cold 12N H2SO4<2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ml Vial Lot # 03-40BTS721.

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
04/09/25	RP (Ext Lab)	Y-P-Pest IP&B.
18:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167536

Analytical Method: M8151A-Herbicide-22

Concentration Date: 04/09/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167488TB	PB167488TB	TCLP Herbicide	100	6	ritesh	rajesh	10			SEP-05
PB167517TB	PB167517TB	TCLP Herbicide	100	6	ritesh	rajesh	10			6
PB167536BL	HBLK536	TCLP Herbicide	1000	6	ritesh	rajesh	10			7
PB167536BS	HLCS536	TCLP Herbicide	1000	6	ritesh	rajesh	10			8
Q1739-02	WC-LIQUID-20250404	TCLP Herbicide	100	6	ritesh	rajesh	10	A		9
Q1739-02MS	WC-LIQUID-20250404MS	TCLP Herbicide	100	6	ritesh	rajesh	10	A		10
Q1739-02MSD	WC-LIQUID-20250404MSD	TCLP Herbicide	100	6	ritesh	rajesh	10	A		11
Q1744-02	B-158-SB01	TCLP Herbicide	100	6	ritesh	rajesh	10	A		12
Q1744-04	B-158-SB02	TCLP Herbicide	100	6	ritesh	rajesh	10	A		13
Q1746-02	B-149-SB01	TCLP Herbicide	100	6	ritesh	rajesh	10	A		14
Q1746-04	B-149-SB02	TCLP Herbicide	100	6	ritesh	rajesh	10	A		15

* **Extracts relinquished on the same date as received.**

4/9/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167467

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
PB167467TB	LEB467	18	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q1712-04	Z-05A	01	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1712-08	TT-7	02	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1719-01	TP-3-1	03	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1719-02	TP-3-2	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1719-03	TP-3-3	05	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-04	TP-3-4	06	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1719-05	TP-3-5	07	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-06	TP-3-6	08	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1719-07	TP-3-7	09	100.01	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q1719-08	TP-3-8	10	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1719-09	TP-3-9	11	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-2
Q1719-10	TP-3-10	12	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q1719-11	TP-3-11	13	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1719-12	TP-3-12	14	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2
Q1732-04	TT-8	15	100.03	2000	N/A	N/A	N/A	8.6	1.0	T-2
Q1737-02	RT3069	16	100.02	2000	N/A	N/A	N/A	6.2	1.5	T-2
Q1740-04	TP-20	17	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2

04/04/25
11:00

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167488

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
PB167488TB	LEB488	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.5	N/A

04/07/25
12:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

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
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

04/09/25

12:40

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

LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015655.D	1	04/08/25 08:55	04/08/25 14:02	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	5330		426	3140	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	10.5		37 - 130	52%	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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	56 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015656.D	1	04/08/25 08:55	04/08/25 14:31	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	9780		684	5050	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.6		37 - 130	63%	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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SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Portal Partners Tri-Venture

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG015650.D	110				0
PIBLK-FG015661.D	104				0
PB167510BL	81				0
PB167510BS	87				0
B-158-SB01	52				0
B-158-SB02	63				0
B-158-SB02MS	58				0
B-158-SB02MSD	56				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Client SampleID : B-158-SB02MS **Datafile:** FG015659.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	20225	9780	24698	74%		68-131

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SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Client SampleID : B-158-SB02MSD **Datafile:** FG015660.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	20178	9780	24202	72%		68-131

MS/MSD % Recovery RPD : 3

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SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Matrix Spike - EPA Sample No : PB167510BS **Datafile:** FG015654.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11322	0	8469	75	68-131

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB167510BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Lab File ID: FG015653.D Lab Sample ID: PB167510BL

Instrument ID: FG Date Extracted: 04/08/2025

Matrix: (soil/water) Soil Date Analyzed: 04/08/25

Level: (low/med) low Time Analyzed: 12:50

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167510BS	PB167510BS	FG015654.D	04/08/25
B-158-SB01	Q1744-01	FG015655.D	04/08/25
B-158-SB02	Q1744-03	FG015656.D	04/08/25
B-158-SB02MS	Q1744-03MS	FG015659.D	04/08/25
B-158-SB02MSD	Q1744-03MSD	FG015660.D	04/08/25

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167510BL	SDG No.:	Q1744
Lab Sample ID:	PB167510BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015653.D	1	04/08/25 08:55	04/08/25 12:50	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.2		37 - 130	81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-FG015650.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-FG015650.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015650.D	1		04/08/25	FG040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	22.1		29 - 130	110%	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:	04/08/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/08/25
Client Sample ID:	PIBLK-FG015661.D	SDG No.:	Q1744
Lab Sample ID:	I.BLK-FG015661.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015661.D	1		04/08/25	FG040825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	20.8		29 - 130	104%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167510BS	SDG No.:	Q1744
Lab Sample ID:	PB167510BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015654.D	1	04/08/25 08:55	04/08/25 13:20	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	8470		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.3		37 - 130	87%	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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02MS	SDG No.:	Q1744
Lab Sample ID:	Q1744-03MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	56 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015659.D	1	04/08/25 08:55	04/08/25 15:59	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	24700		685	5060	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.6		37 - 130	58%	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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02MSD	SDG No.:	Q1744
Lab Sample ID:	Q1744-03MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	56 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015660.D	1	04/08/25 08:55	04/08/25 16:29	PB167510

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	24200		684	5040	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.3		37 - 130	56%	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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TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Calibration Sequence : FG032725		Test : TPH GC	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1700	202510102	119124	FG015564.D
850	97431427	114625	FG015565.D
340	39672736	116685	FG015566.D
170	20516512	120685	FG015567.D
85	9074544	106759	FG015568.D
AVG RF : 115576	**% RSD : 4.711**		**AVG RT : 15.021**

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

DataFile: FG015651.D Analyst Name: YP\AJ Analyst Date: 04-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	95873167	112792	115576	2.409

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TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06

ProjectID: Amtrak Sawtooth Bridges 2025

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

DataFile: FG015662.D Analyst Name: YP\AJ Analyst Date: 04-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	97789180	115046	115576	0.459

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Analytical Sequence

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **Instrument ID:** FID_G

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.021**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	08 Apr 2025 10:01	FG015650.D	15.019	
50 PPM TRPH STD	50 PPM TRPH STD	08 Apr 2025 11:13	FG015651.D	15.022	
PB167510BL	PB167510BL	08 Apr 2025 12:50	FG015653.D	15.016	
PB167510BS	PB167510BS	08 Apr 2025 13:20	FG015654.D	15.016	
B-158-SB01	Q1744-01	08 Apr 2025 14:02	FG015655.D	15.017	
B-158-SB02	Q1744-03	08 Apr 2025 14:31	FG015656.D	15.015	
B-158-SB02MS	Q1744-03MS	08 Apr 2025 15:59	FG015659.D	14.965	
B-158-SB02MSD	Q1744-03MSD	08 Apr 2025 16:29	FG015660.D	15.015	
PIBLK02	I.BLK02	08 Apr 2025 16:58	FG015661.D	15.014	
50 PPM TRPH STD	50 PPM TRPH STD	08 Apr 2025 17:57	FG015662.D	15.017	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.921	15.121

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015655.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:02
Operator : YP\AJ
Sample : Q1744-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB01

Integration File: autoint1.e
Quant Time: Apr 09 00:29:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.016	1198248	10.459 ug/ml
Target Compounds			

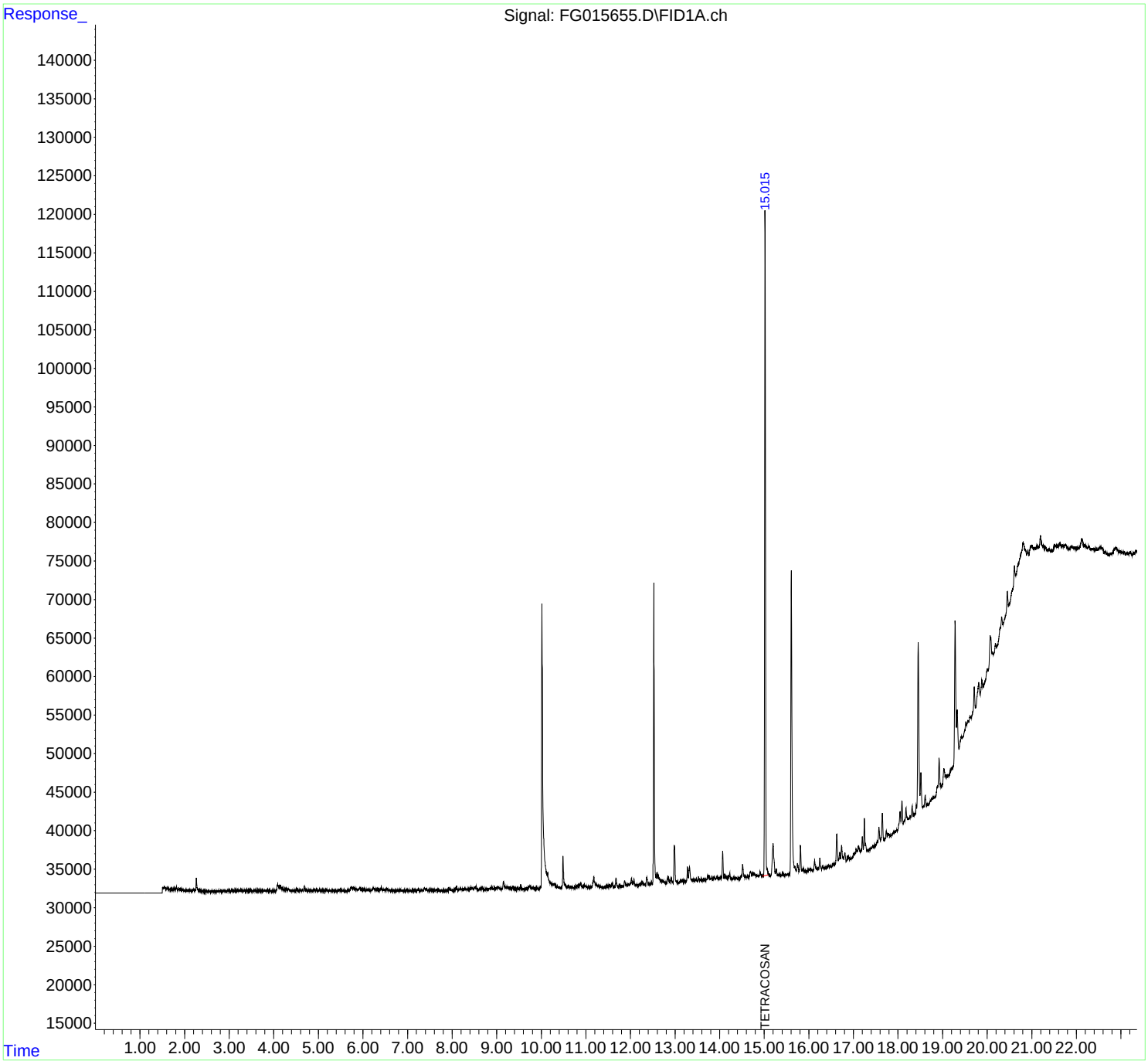
(f)=RT Delta > 1/2 Window (m)=manual int.

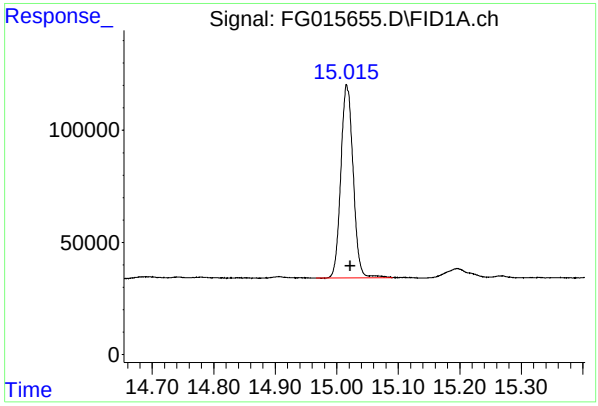
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015655.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:02
Operator : YP\AJ
Sample : Q1744-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB01

Integration File: autoint1.e
Quant Time: Apr 09 00:29:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.016 min
Delta R.T.: -0.006 mi
Response: 1198248
Conc: 10.46 ug/m

Instrument :
FID_G
ClientSampleId :
B-158-SB01

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015655.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:02
Sample : Q1744-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.818	1.800	1.849	BV	475	5597	0.30%	0.031%
2	1.871	1.849	1.904	PV	342	5524	0.30%	0.031%
3	1.915	1.904	1.929	VV	191	1664	0.09%	0.009%
4	1.934	1.929	1.940	VV	174	872	0.05%	0.005%
5	1.941	1.940	1.970	VV	169	2020	0.11%	0.011%
6	1.983	1.970	1.996	VV	163	1784	0.10%	0.010%
7	2.000	1.996	2.022	VV	92	1327	0.07%	0.007%
8	2.027	2.022	2.035	VV	80	432	0.02%	0.002%
9	2.069	2.035	2.076	PV	180	2335	0.13%	0.013%
10	2.081	2.076	2.115	VV	137	2353	0.13%	0.013%
11	2.121	2.115	2.143	VV	183	2091	0.11%	0.012%
12	2.147	2.143	2.158	VV	148	929	0.05%	0.005%
13	2.160	2.158	2.171	VV	153	689	0.04%	0.004%
14	2.195	2.171	2.241	VV	387	7950	0.43%	0.045%
15	2.263	2.241	2.300	VV	1805	25313	1.37%	0.142%
16	2.306	2.300	2.329	VV	314	3652	0.20%	0.020%
17	2.333	2.329	2.370	VV	210	3678	0.20%	0.021%
18	2.374	2.370	2.394	VV	144	1715	0.09%	0.010%
19	2.408	2.394	2.421	VV	223	2090	0.11%	0.012%
20	2.430	2.421	2.435	VV	155	1009	0.05%	0.006%
21	2.445	2.435	2.448	VV	164	846	0.05%	0.005%
22	2.451	2.448	2.455	VV	138	361	0.02%	0.002%
23	2.460	2.455	2.470	PV	133	692	0.04%	0.004%
24	2.476	2.470	2.480	VV	132	624	0.03%	0.003%
25	2.487	2.480	2.516	VV	172	2231	0.12%	0.012%
26	2.527	2.516	2.532	VV	180	1194	0.06%	0.007%
27	2.536	2.532	2.546	VV	166	1033	0.06%	0.006%
28	2.552	2.546	2.556	VV	162	683	0.04%	0.004%
29	2.576	2.556	2.591	VV	139	1837	0.10%	0.010%
30	2.597	2.591	2.609	VV	172	1109	0.06%	0.006%
31	2.614	2.609	2.620	VV	175	820	0.04%	0.005%
32	2.623	2.620	2.627	VV	162	429	0.02%	0.002%
33	2.632	2.627	2.636	VV	111	484	0.03%	0.003%
34	2.640	2.636	2.646	VV	93	550	0.03%	0.003%
35	2.648	2.646	2.656	VV	144	561	0.03%	0.003%
36	2.668	2.656	2.699	VV	274	3413	0.18%	0.019%

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37	2.713	2.699	2.736	VV	146	2302	0.12%	0.013%
38	2.742	2.736	2.755	VV	165	1344	0.07%	0.008%
39	2.759	2.755	2.762	VV	167	479	0.03%	0.003%
40	2.767	2.762	2.809	VV	211	4065	0.22%	0.023%
41	2.822	2.809	2.830	VV	202	1528	0.08%	0.009%
42	2.840	2.830	2.871	VV	175	3227	0.17%	0.018%
43	2.874	2.871	2.886	VV	238	1559	0.08%	0.009%
44	2.898	2.886	2.905	VV	201	1778	0.10%	0.010%
45	2.907	2.905	2.922	VV	157	1652	0.09%	0.009%
46	2.966	2.922	3.000	VV	335	9037	0.49%	0.051%
47	3.020	3.000	3.034	VV	190	3028	0.16%	0.017%
48	3.037	3.034	3.064	VV	241	3213	0.17%	0.018%
49	3.067	3.064	3.076	VV	176	966	0.05%	0.005%
50	3.080	3.076	3.088	VV	191	996	0.05%	0.006%
51	3.092	3.088	3.096	VV	182	758	0.04%	0.004%
52	3.104	3.096	3.111	VV	192	1371	0.07%	0.008%
53	3.115	3.111	3.125	VV	108	1345	0.07%	0.008%
54	3.134	3.125	3.139	VV	211	1614	0.09%	0.009%
55	3.160	3.139	3.164	VV	242	3000	0.16%	0.017%
56	3.168	3.164	3.180	VV	252	1976	0.11%	0.011%
57	3.182	3.180	3.194	VV	244	1562	0.08%	0.009%
58	3.205	3.194	3.233	VV	250	4594	0.25%	0.026%
59	3.247	3.233	3.265	VV	299	3955	0.21%	0.022%
60	3.284	3.265	3.288	VV	248	2613	0.14%	0.015%
61	3.300	3.288	3.317	VV	261	3400	0.18%	0.019%
62	3.322	3.317	3.353	VV	235	3456	0.19%	0.019%
63	3.357	3.353	3.366	VV	200	1250	0.07%	0.007%
64	3.373	3.366	3.382	VV	231	1633	0.09%	0.009%
65	3.387	3.382	3.396	VV	222	1477	0.08%	0.008%
66	3.400	3.396	3.410	VV	260	1650	0.09%	0.009%
67	3.412	3.410	3.417	VV	312	804	0.04%	0.005%
68	3.425	3.417	3.435	VV	273	2055	0.11%	0.012%
69	3.442	3.435	3.449	VV	210	1475	0.08%	0.008%
70	3.460	3.449	3.490	VV	285	5215	0.28%	0.029%
71	3.494	3.490	3.521	VV	255	3232	0.17%	0.018%
72	3.532	3.521	3.543	VV	214	2174	0.12%	0.012%
73	3.560	3.543	3.582	VV	278	4693	0.25%	0.026%
74	3.586	3.582	3.592	VV	219	1019	0.06%	0.006%
75	3.599	3.592	3.618	VV	299	3089	0.17%	0.017%
76	3.640	3.618	3.654	VV	227	3739	0.20%	0.021%
77	3.664	3.654	3.678	VV	188	2201	0.12%	0.012%
78	3.688	3.678	3.729	VV	251	4827	0.26%	0.027%
79	3.732	3.729	3.754	VV	197	2157	0.12%	0.012%
80	3.757	3.754	3.765	VV	206	1237	0.07%	0.007%
81	3.780	3.765	3.797	VV	223	3020	0.16%	0.017%
82	3.808	3.797	3.864	VV	172	6843	0.37%	0.038%
83	3.872	3.864	3.881	VV	196	1556	0.08%	0.009%
84	3.886	3.881	3.891	VV	200	1061	0.06%	0.006%
85	3.896	3.891	3.919	VV	203	2379	0.13%	0.013%
86	3.923	3.919	3.927	VV	170	603	0.03%	0.003%
87	3.933	3.927	3.947	VV	211	1816	0.10%	0.010%
88	3.954	3.947	3.961	VV	201	1201	0.06%	0.007%
89	3.980	3.961	4.012	VV	224	4548	0.25%	0.025%

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90	4.024	4.012	4.035	VV	113	1759	0.09%	0.010%
91	4.039	4.035	4.055	VV	194	1699	0.09%	0.010%
92	4.087	4.055	4.135	VV	936	30268	1.63%	0.169%
93	4.150	4.135	4.189	VV	835	17233	0.93%	0.096%
94	4.196	4.189	4.207	VV	481	4269	0.23%	0.024%
95	4.211	4.207	4.218	VV	383	2199	0.12%	0.012%
96	4.223	4.218	4.246	VV	406	5589	0.30%	0.031%
97	4.251	4.246	4.281	VV	352	6230	0.34%	0.035%
98	4.285	4.281	4.306	VV	342	4332	0.23%	0.024%
99	4.309	4.306	4.315	VV	297	1437	0.08%	0.008%
100	4.337	4.315	4.362	VV	339	7618	0.41%	0.043%
101	4.366	4.362	4.375	VV	262	1679	0.09%	0.009%
102	4.382	4.375	4.444	VV	279	7835	0.42%	0.044%
103	4.447	4.444	4.458	VV	238	1612	0.09%	0.009%
104	4.465	4.458	4.471	VV	211	1409	0.08%	0.008%
105	4.481	4.471	4.494	VV	190	2105	0.11%	0.012%
106	4.514	4.494	4.535	VV	477	7335	0.40%	0.041%
107	4.539	4.535	4.556	VV	258	2530	0.14%	0.014%
108	4.560	4.556	4.566	VV	171	1036	0.06%	0.006%
109	4.570	4.566	4.574	VV	175	693	0.04%	0.004%
110	4.594	4.574	4.611	VV	264	4338	0.23%	0.024%
111	4.635	4.611	4.664	VV	337	5895	0.32%	0.033%
112	4.682	4.664	4.723	VV	751	12070	0.65%	0.068%
113	4.725	4.723	4.730	VV	200	807	0.04%	0.005%
114	4.760	4.730	4.777	VV	212	5325	0.29%	0.030%
115	4.795	4.777	4.817	VV	213	4044	0.22%	0.023%
116	4.821	4.817	4.853	VV	202	3305	0.18%	0.019%
117	4.868	4.853	4.876	VV	167	1958	0.11%	0.011%
118	4.883	4.876	4.888	VV	208	1267	0.07%	0.007%
119	4.909	4.888	4.929	VV	350	5474	0.30%	0.031%
120	4.952	4.929	4.958	VV	278	3890	0.21%	0.022%
121	4.981	4.958	4.988	VV	253	3737	0.20%	0.021%
122	4.994	4.988	5.009	VV	230	2182	0.12%	0.012%
123	5.022	5.009	5.044	VV	252	4248	0.23%	0.024%
124	5.049	5.044	5.066	VV	188	2152	0.12%	0.012%
125	5.071	5.066	5.075	VV	211	866	0.05%	0.005%
126	5.077	5.075	5.111	VV	189	3210	0.17%	0.018%
127	5.132	5.111	5.144	VV	200	2664	0.14%	0.015%
128	5.176	5.144	5.222	VV	297	9044	0.49%	0.051%
129	5.233	5.222	5.238	VV	176	1191	0.06%	0.007%
130	5.250	5.238	5.259	VV	153	1651	0.09%	0.009%
131	5.269	5.259	5.274	VV	221	1427	0.08%	0.008%
132	5.278	5.274	5.294	VV	155	1572	0.08%	0.009%
133	5.299	5.294	5.311	VV	147	1225	0.07%	0.007%
134	5.316	5.311	5.320	VV	141	611	0.03%	0.003%
135	5.333	5.320	5.344	VV	208	2427	0.13%	0.014%
136	5.351	5.344	5.385	VV	179	2931	0.16%	0.016%
137	5.401	5.385	5.410	VV	133	1371	0.07%	0.008%
138	5.413	5.410	5.421	VV	70	421	0.02%	0.002%
139	5.470	5.421	5.496	VV	339	7919	0.43%	0.044%
140	5.500	5.496	5.520	VV	249	2489	0.13%	0.014%
141	5.527	5.520	5.542	VV	180	1768	0.10%	0.010%

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142	5.549	5.542	5.553	VV	142	832	0.04%	0.005%
143	5.575	5.553	5.593	VV	182	3142	0.17%	0.018%
144	5.612	5.593	5.626	VV	151	2090	0.11%	0.012%
145	5.633	5.626	5.638	VV	129	646	0.03%	0.004%
146	5.655	5.638	5.682	VV	239	3905	0.21%	0.022%
147	5.686	5.682	5.694	VV	132	772	0.04%	0.004%
148	5.741	5.694	5.767	VV	617	17616	0.95%	0.099%
149	5.777	5.767	5.839	VV	457	16456	0.89%	0.092%
150	5.842	5.839	5.881	VV	429	8148	0.44%	0.046%
151	5.884	5.881	5.891	VV	307	1810	0.10%	0.010%
152	5.926	5.891	5.951	VV	464	12123	0.65%	0.068%
153	5.955	5.951	5.970	VV	316	2938	0.16%	0.016%
154	5.982	5.970	6.002	VV	404	5476	0.30%	0.031%
155	6.010	6.002	6.020	VV	290	2745	0.15%	0.015%
156	6.025	6.020	6.027	VV	315	1124	0.06%	0.006%
157	6.033	6.027	6.083	VV	365	8299	0.45%	0.046%
158	6.088	6.083	6.092	VV	180	906	0.05%	0.005%
159	6.102	6.092	6.123	VV	255	3205	0.17%	0.018%
160	6.136	6.123	6.161	VV	240	3539	0.19%	0.020%
161	6.177	6.161	6.186	VV	220	2508	0.14%	0.014%
162	6.190	6.186	6.192	VV	194	600	0.03%	0.003%
163	6.231	6.192	6.273	VV	494	15816	0.85%	0.089%
164	6.277	6.273	6.310	VV	283	5712	0.31%	0.032%
165	6.316	6.310	6.344	VV	272	4906	0.26%	0.027%
166	6.347	6.344	6.369	VV	223	3099	0.17%	0.017%
167	6.383	6.369	6.397	VV	300	4478	0.24%	0.025%
168	6.409	6.397	6.427	VV	519	6511	0.35%	0.036%
169	6.431	6.427	6.434	VV	245	916	0.05%	0.005%
170	6.438	6.434	6.469	VV	254	4076	0.22%	0.023%
171	6.481	6.469	6.500	VV	286	3899	0.21%	0.022%
172	6.509	6.500	6.519	VV	179	1709	0.09%	0.010%
173	6.538	6.519	6.566	VV	383	7381	0.40%	0.041%
174	6.569	6.566	6.574	VV	276	1067	0.06%	0.006%
175	6.582	6.574	6.607	VV	248	3727	0.20%	0.021%
176	6.611	6.607	6.649	VV	171	3006	0.16%	0.017%
177	6.655	6.649	6.679	VV	115	1674	0.09%	0.009%
178	6.696	6.679	6.741	VV	190	3770	0.20%	0.021%
179	6.743	6.741	6.767	VV	154	1157	0.06%	0.006%
180	6.798	6.767	6.810	VV	218	2923	0.16%	0.016%
181	6.817	6.810	6.851	VV	214	4268	0.23%	0.024%
182	6.855	6.851	6.862	VV	182	905	0.05%	0.005%
183	6.866	6.862	6.871	VV	160	749	0.04%	0.004%
184	6.887	6.871	6.911	VV	191	2905	0.16%	0.016%
185	6.918	6.911	6.941	VV	176	1870	0.10%	0.010%
186	6.953	6.941	6.959	VV	118	945	0.05%	0.005%
187	6.965	6.959	6.968	VV	140	548	0.03%	0.003%
188	6.974	6.968	7.007	VV	204	2796	0.15%	0.016%
189	7.017	7.007	7.027	VV	106	886	0.05%	0.005%
190	7.033	7.027	7.068	VV	131	1974	0.11%	0.011%
191	7.075	7.068	7.086	VV	114	828	0.04%	0.005%
192	7.095	7.086	7.126	VV	172	2232	0.12%	0.012%
193	7.131	7.126	7.144	VV	129	848	0.05%	0.005%
194	7.150	7.144	7.156	VV	107	624	0.03%	0.003%

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195	7.163	7.156	7.179	VV	152	1131	0.06%	0.006%
196	7.187	7.179	7.193	VV	141	750	0.04%	0.004%
197	7.201	7.193	7.226	VV	120	2337	0.13%	0.013%
198	7.238	7.226	7.262	VV	260	4222	0.23%	0.024%
199	7.266	7.262	7.273	VV	193	971	0.05%	0.005%
200	7.285	7.273	7.330	VV	238	4528	0.24%	0.025%
201	7.337	7.330	7.344	VV	165	1231	0.07%	0.007%
202	7.349	7.344	7.360	VV	180	1268	0.07%	0.007%
203	7.381	7.360	7.399	VV	441	7484	0.40%	0.042%
204	7.422	7.399	7.451	VV	362	7359	0.40%	0.041%
205	7.456	7.451	7.464	VV	147	932	0.05%	0.005%
206	7.478	7.464	7.509	VV	255	3871	0.21%	0.022%
207	7.515	7.509	7.523	VV	127	968	0.05%	0.005%
208	7.589	7.523	7.613	VV	223	6680	0.36%	0.037%
209	7.649	7.613	7.682	VV	300	5182	0.28%	0.029%
210	7.687	7.682	7.711	VV	121	1265	0.07%	0.007%
211	7.719	7.711	7.748	VV	162	1974	0.11%	0.011%
212	7.756	7.748	7.809	VV	104	2865	0.15%	0.016%
213	7.815	7.809	7.841	VV	142	1282	0.07%	0.007%
214	7.931	7.841	7.988	PV	504	12818	0.69%	0.072%
215	8.007	7.988	8.043	VV	169	3355	0.18%	0.019%
216	8.073	8.043	8.084	VV	294	4316	0.23%	0.024%
217	8.103	8.084	8.147	VV	623	10342	0.56%	0.058%
218	8.182	8.147	8.207	VV	280	7716	0.42%	0.043%
219	8.219	8.207	8.237	VV	318	4161	0.22%	0.023%
220	8.246	8.237	8.254	VV	253	2084	0.11%	0.012%
221	8.279	8.254	8.289	VV	272	4767	0.26%	0.027%
222	8.300	8.289	8.339	VV	294	5570	0.30%	0.031%
223	8.356	8.339	8.392	VV	251	6215	0.34%	0.035%
224	8.410	8.392	8.417	VV	377	3936	0.21%	0.022%
225	8.432	8.417	8.456	VV	309	6789	0.37%	0.038%
226	8.466	8.456	8.481	VV	319	4068	0.22%	0.023%
227	8.501	8.481	8.514	VV	471	7232	0.39%	0.040%
228	8.533	8.514	8.585	VV	553	12431	0.67%	0.070%
229	8.600	8.585	8.609	VV	146	2103	0.11%	0.012%
230	8.660	8.609	8.706	VV	325	11811	0.64%	0.066%
231	8.710	8.706	8.729	VV	136	1648	0.09%	0.009%
232	8.750	8.729	8.757	VV	151	1945	0.11%	0.011%
233	8.769	8.757	8.791	VV	179	2744	0.15%	0.015%
234	8.798	8.791	8.809	VV	124	1048	0.06%	0.006%
235	8.863	8.809	8.881	VV	299	10020	0.54%	0.056%
236	8.893	8.881	8.918	VV	350	5667	0.31%	0.032%
237	8.946	8.918	8.954	VV	308	4616	0.25%	0.026%
238	8.967	8.954	8.990	VV	384	5516	0.30%	0.031%
239	9.024	8.990	9.062	VV	433	11910	0.64%	0.067%
240	9.073	9.062	9.127	VV	325	7273	0.39%	0.041%
241	9.151	9.127	9.202	VV	1076	25203	1.36%	0.141%
242	9.216	9.202	9.254	VV	378	9720	0.52%	0.054%
243	9.277	9.254	9.339	VV	409	12742	0.69%	0.071%
244	9.364	9.339	9.391	VV	505	8624	0.47%	0.048%
245	9.402	9.391	9.436	VV	211	2616	0.14%	0.015%
246	9.464	9.436	9.476	VV	148	2630	0.14%	0.015%

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247	9.479	9.476	9.491	VV	144	1024	0.06%	0.006%
248	9.536	9.491	9.589	VV	442	8325	0.45%	0.047%
249	9.597	9.589	9.616	VV	143	1436	0.08%	0.008%
250	9.621	9.616	9.674	VV	104	2557	0.14%	0.014%
251	9.747	9.674	9.777	VV	513	17152	0.93%	0.096%
252	9.784	9.777	9.796	VV	270	2046	0.11%	0.011%
253	9.806	9.796	9.851	VV	169	4698	0.25%	0.026%
254	9.863	9.851	9.914	VV	165	4484	0.24%	0.025%
255	9.920	9.914	9.951	VV	137	1478	0.08%	0.008%
256	9.979	9.951	9.992	VV	423	5667	0.31%	0.032%
257	10.016	9.992	10.136	VV	36781	743344	40.13%	4.162%
258	10.142	10.136	10.235	VV	1952	66191	3.57%	0.371%
259	10.252	10.235	10.274	VV	633	13932	0.75%	0.078%
260	10.293	10.274	10.341	VV	682	19760	1.07%	0.111%
261	10.355	10.341	10.407	VV	334	8869	0.48%	0.050%
262	10.415	10.407	10.436	VV	182	2249	0.12%	0.013%
263	10.489	10.436	10.557	VV	4210	71659	3.87%	0.401%
264	10.565	10.557	10.577	VV	328	3354	0.18%	0.019%
265	10.601	10.577	10.621	VV	317	7007	0.38%	0.039%
266	10.626	10.621	10.656	VV	284	3854	0.21%	0.022%
267	10.665	10.656	10.688	VV	280	3582	0.19%	0.020%
268	10.705	10.688	10.731	VV	187	3388	0.18%	0.019%
269	10.812	10.731	10.832	VV	424	14869	0.80%	0.083%
270	10.888	10.832	10.917	VV	703	21320	1.15%	0.119%
271	10.965	10.917	11.012	VV	397	15886	0.86%	0.089%
272	11.019	11.012	11.061	VV	243	4707	0.25%	0.026%
273	11.069	11.061	11.089	VV	202	2312	0.12%	0.013%
274	11.110	11.089	11.136	VV	203	3783	0.20%	0.021%
275	11.177	11.136	11.222	VV	1438	39712	2.14%	0.222%
276	11.235	11.222	11.324	VV	459	16892	0.91%	0.095%
277	11.331	11.324	11.357	VV	167	2984	0.16%	0.017%
278	11.366	11.357	11.386	VV	172	1496	0.08%	0.008%
279	11.410	11.386	11.437	PV	169	2481	0.13%	0.014%
280	11.459	11.437	11.504	VV	281	6603	0.36%	0.037%
281	11.526	11.504	11.552	VV	383	6674	0.36%	0.037%
282	11.593	11.552	11.649	VV	597	13927	0.75%	0.078%
283	11.675	11.649	11.737	PV	1197	20267	1.09%	0.113%
284	11.754	11.737	11.773	VV	410	4585	0.25%	0.026%
285	11.787	11.773	11.809	VV	222	2844	0.15%	0.016%
286	11.829	11.809	11.846	VV	166	2177	0.12%	0.012%
287	11.868	11.846	11.927	VV	755	17463	0.94%	0.098%
288	11.951	11.927	11.972	VV	344	6223	0.34%	0.035%
289	12.021	11.972	12.054	VV	1029	25973	1.40%	0.145%
290	12.078	12.054	12.106	VV	931	14828	0.80%	0.083%
291	12.110	12.106	12.126	VV	216	1839	0.10%	0.010%
292	12.144	12.126	12.179	VV	215	4114	0.22%	0.023%
293	12.202	12.179	12.226	PV	227	3732	0.20%	0.021%
294	12.268	12.226	12.337	VV	524	17266	0.93%	0.097%
295	12.365	12.337	12.419	VV	995	21617	1.17%	0.121%
296	12.432	12.419	12.455	VV	193	3050	0.16%	0.017%
297	12.473	12.455	12.492	VV	370	5471	0.30%	0.031%
298	12.523	12.492	12.575	VV	38907	459929	24.83%	2.575%
299	12.591	12.575	12.607	VV	1532	23512	1.27%	0.132%

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300	12.621	12.607	12.674	VV	1341	32757	1.77%	0.183%
301	12.691	12.674	12.711	VV	640	10956	0.59%	0.061%
302	12.732	12.711	12.806	VV	477	15980	0.86%	0.089%
303	12.839	12.806	12.881	VV	1082	24197	1.31%	0.135%
304	12.909	12.881	12.947	VV	768	16095	0.87%	0.090%
305	12.984	12.947	13.091	VV	4877	93819	5.06%	0.525%
306	13.118	13.091	13.147	VV	391	6695	0.36%	0.037%
307	13.166	13.147	13.203	VV	446	9221	0.50%	0.052%
308	13.234	13.203	13.249	VV	229	3948	0.21%	0.022%
309	13.276	13.249	13.296	VV	2026	26568	1.43%	0.149%
310	13.322	13.296	13.389	VV	2015	50116	2.71%	0.281%
311	13.403	13.389	13.423	VV	336	5697	0.31%	0.032%
312	13.470	13.423	13.501	VV	376	12031	0.65%	0.067%
313	13.526	13.501	13.571	PV	631	13561	0.73%	0.076%
314	13.592	13.571	13.632	VV	336	9647	0.52%	0.054%
315	13.652	13.632	13.679	VV	411	6620	0.36%	0.037%
316	13.735	13.679	13.744	VV	685	14000	0.76%	0.078%
317	13.757	13.744	13.787	VV	787	13968	0.75%	0.078%
318	13.807	13.787	13.839	VV	573	10427	0.56%	0.058%
319	13.878	13.839	13.907	VV	473	12420	0.67%	0.070%
320	13.936	13.907	13.957	VV	411	9591	0.52%	0.054%
321	13.981	13.957	13.999	VV	399	7846	0.42%	0.044%
322	14.023	13.999	14.033	VV	363	6186	0.33%	0.035%
323	14.066	14.033	14.092	VV	3773	53123	2.87%	0.297%
324	14.113	14.092	14.137	VV	768	12796	0.69%	0.072%
325	14.147	14.137	14.164	VV	407	4753	0.26%	0.027%
326	14.225	14.164	14.294	VV	879	22833	1.23%	0.128%
327	14.341	14.294	14.379	VV	246	8810	0.48%	0.049%
328	14.386	14.379	14.409	VV	163	1668	0.09%	0.009%
329	14.414	14.409	14.427	VV	111	785	0.04%	0.004%
330	14.434	14.427	14.443	VV	183	620	0.03%	0.003%
331	14.477	14.443	14.491	PV	423	6899	0.37%	0.039%
332	14.514	14.491	14.572	VV	1821	36880	1.99%	0.207%
333	14.589	14.572	14.597	VV	259	3036	0.16%	0.017%
334	14.614	14.597	14.653	VV	269	6540	0.35%	0.037%
335	14.692	14.653	14.725	VV	834	22576	1.22%	0.126%
336	14.742	14.725	14.761	VV	702	11142	0.60%	0.062%
337	14.779	14.761	14.822	VV	653	15303	0.83%	0.086%
338	14.853	14.822	14.875	VV	335	7725	0.42%	0.043%
339	14.906	14.875	14.976	VV	816	19904	1.07%	0.111%
340	15.017	14.976	15.100	VV	84882	1216060	65.65%	6.809%
341	15.109	15.100	15.139	VV	411	5408	0.29%	0.030%
342	15.196	15.139	15.247	VV	4294	116875	6.31%	0.654%
343	15.267	15.247	15.307	VV	908	16986	0.92%	0.095%
344	15.329	15.307	15.347	VV	259	3926	0.21%	0.022%
345	15.361	15.347	15.386	VV	149	2222	0.12%	0.012%
346	15.413	15.386	15.447	VV	346	6742	0.36%	0.038%
347	15.480	15.447	15.502	PV	185	3755	0.20%	0.021%
348	15.518	15.502	15.550	VV	173	2720	0.15%	0.015%
349	15.558	15.550	15.567	PV	82	504	0.03%	0.003%
350	15.605	15.567	15.676	VV	39075	686649	37.07%	3.845%
351	15.684	15.676	15.719	VV	1041	17995	0.97%	0.101%

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352	15.744	15.719	15.784	VV	1264	27285	1.47%	0.153%
353	15.812	15.784	15.846	VV	3533	52298	2.82%	0.293%
354	15.870	15.846	15.909	VV	464	12326	0.67%	0.069%
355	15.923	15.909	15.962	VV	193	3140	0.17%	0.018%
356	16.035	15.962	16.066	VV	341	11000	0.59%	0.062%
357	16.071	16.066	16.090	VV	117	1488	0.08%	0.008%
358	16.129	16.090	16.195	PV	1142	28492	1.54%	0.160%
359	16.212	16.195	16.220	VV	196	2165	0.12%	0.012%
360	16.245	16.220	16.286	VV	1470	22214	1.20%	0.124%
361	16.311	16.286	16.347	VV	465	8032	0.43%	0.045%
362	16.379	16.347	16.397	PV	162	2867	0.15%	0.016%
363	16.446	16.397	16.486	VV	331	7978	0.43%	0.045%
364	16.489	16.486	16.507	VV	185	1241	0.07%	0.007%
365	16.538	16.507	16.586	PV	352	9863	0.53%	0.055%
366	16.625	16.586	16.664	VV	3936	76762	4.14%	0.430%
367	16.692	16.664	16.710	VV	1446	27042	1.46%	0.151%
368	16.733	16.710	16.783	VV	2284	49395	2.67%	0.277%
369	16.806	16.783	16.841	VV	1116	20615	1.11%	0.115%
370	16.867	16.841	16.936	PV	615	15064	0.81%	0.084%
371	16.963	16.936	16.981	VV	175	2264	0.12%	0.013%
372	17.019	16.981	17.034	PV	570	12652	0.68%	0.071%
373	17.058	17.034	17.074	VV	977	17785	0.96%	0.100%
374	17.116	17.074	17.154	VV	1191	36208	1.95%	0.203%
375	17.198	17.154	17.219	VV	2188	37948	2.05%	0.212%
376	17.244	17.219	17.304	VV	4394	72348	3.91%	0.405%
377	17.434	17.304	17.458	VV	431	8327	0.45%	0.047%
378	17.535	17.458	17.547	PV	564	12849	0.69%	0.072%
379	17.571	17.547	17.609	VV	2208	41600	2.25%	0.233%
380	17.647	17.609	17.696	VV	3702	62907	3.40%	0.352%
381	17.735	17.696	17.756	PV	1058	16984	0.92%	0.095%
382	17.774	17.756	17.833	VV	571	13653	0.74%	0.076%
383	18.044	17.833	18.064	PV	2173	48147	2.60%	0.270%
384	18.088	18.064	18.115	VV	3371	51781	2.80%	0.290%
385	18.178	18.115	18.231	VV	2016	53571	2.89%	0.300%
386	18.235	18.231	18.244	VV	435	2646	0.14%	0.015%
387	18.315	18.244	18.342	VV	1609	37039	2.00%	0.207%
388	18.365	18.342	18.382	VV	441	7447	0.40%	0.042%
389	18.409	18.382	18.421	VV	1304	18348	0.99%	0.103%
390	18.452	18.421	18.492	VV	22188	418594	22.60%	2.344%
391	18.513	18.492	18.556	VV	4990	89719	4.84%	0.502%
392	18.609	18.556	18.676	VV	1640	38276	2.07%	0.214%
393	18.756	18.676	18.772	PV	265	6981	0.38%	0.039%
394	18.921	18.772	18.967	VV	4100	79983	4.32%	0.448%
395	19.029	18.967	19.061	PV	1759	41923	2.26%	0.235%
396	19.073	19.061	19.107	VV	610	12017	0.65%	0.067%
397	19.124	19.107	19.147	VV	227	3442	0.19%	0.019%
398	19.280	19.147	19.311	PV	18746	354054	19.11%	1.983%
399	19.326	19.311	19.364	VV	6659	132307	7.14%	0.741%
400	19.416	19.364	19.436	VV	2304	78737	4.25%	0.441%
401	19.520	19.436	19.539	VV	3145	142751	7.71%	0.799%
402	19.569	19.539	19.589	VV	2873	80600	4.35%	0.451%
403	19.616	19.589	19.639	VV	2885	80961	4.37%	0.453%
404	19.709	19.639	19.736	VV	5769	202352	10.92%	1.133%

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405	19.810	19.736	19.840	VV	5313	251604	13.58%	1.409%
406	19.879	19.840	19.909	VV	5025	171226	9.24%	0.959%
407	20.001	19.909	20.017	VV	5051	284642	15.37%	1.594%
408	20.069	20.017	20.139	VV	8643	480082	25.92%	2.688%
409	20.184	20.139	20.214	VV	6627	273561	14.77%	1.532%
410	20.326	20.214	20.357	VV	8570	615658	33.24%	3.447%
411	20.451	20.357	20.480	VV	10643	624334	33.70%	3.496%
412	20.610	20.480	20.632	VV	12399	900361	48.61%	5.042%
413	20.807	20.632	20.888	VV	13471	1852357	100.00%	10.372%
414	20.912	20.888	20.935	VV	11318	312827	16.89%	1.752%
415	21.001	20.935	21.046	VV	11148	722782	39.02%	4.047%
416	21.066	21.046	21.080	VV	10166	206664	11.16%	1.157%
417	21.112	21.080	21.137	VV	9935	335569	18.12%	1.879%
418	21.194	21.137	21.235	VV	10387	560448	30.26%	3.138%
419	21.248	21.235	21.291	VV	8629	278188	15.02%	1.558%
420	21.312	21.291	21.367	VV	7846	339404	18.32%	1.900%
421	21.383	21.367	21.435	VV	6850	262101	14.15%	1.468%
422	21.447	21.435	21.470	VV	5995	123014	6.64%	0.689%
423	21.510	21.470	21.531	VV	6098	212279	11.46%	1.189%
424	21.544	21.531	21.584	VV	5585	172560	9.32%	0.966%
425	21.633	21.584	21.663	VV	5118	232965	12.58%	1.304%
426	21.683	21.663	21.704	VV	4279	102717	5.55%	0.575%
427	21.712	21.704	21.732	VV	3935	64143	3.46%	0.359%
428	21.757	21.732	21.789	VV	3672	117283	6.33%	0.657%
429	21.803	21.789	21.843	VV	2818	82520	4.45%	0.462%
430	21.882	21.843	21.940	VV	2153	109141	5.89%	0.611%
431	21.952	21.940	21.984	VV	1340	29925	1.62%	0.168%
432	21.996	21.984	22.014	VV	795	12218	0.66%	0.068%
433	22.036	22.014	22.062	VV	387	8572	0.46%	0.048%

Sum of corrected areas: 17858817

FG032725.M Wed Apr 09 00:56:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015656.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:31
Operator : YP\AJ
Sample : Q1744-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02

Integration File: autoint1.e
Quant Time: Apr 09 00:29:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.015	1443811	12.603 ug/ml
Target Compounds			

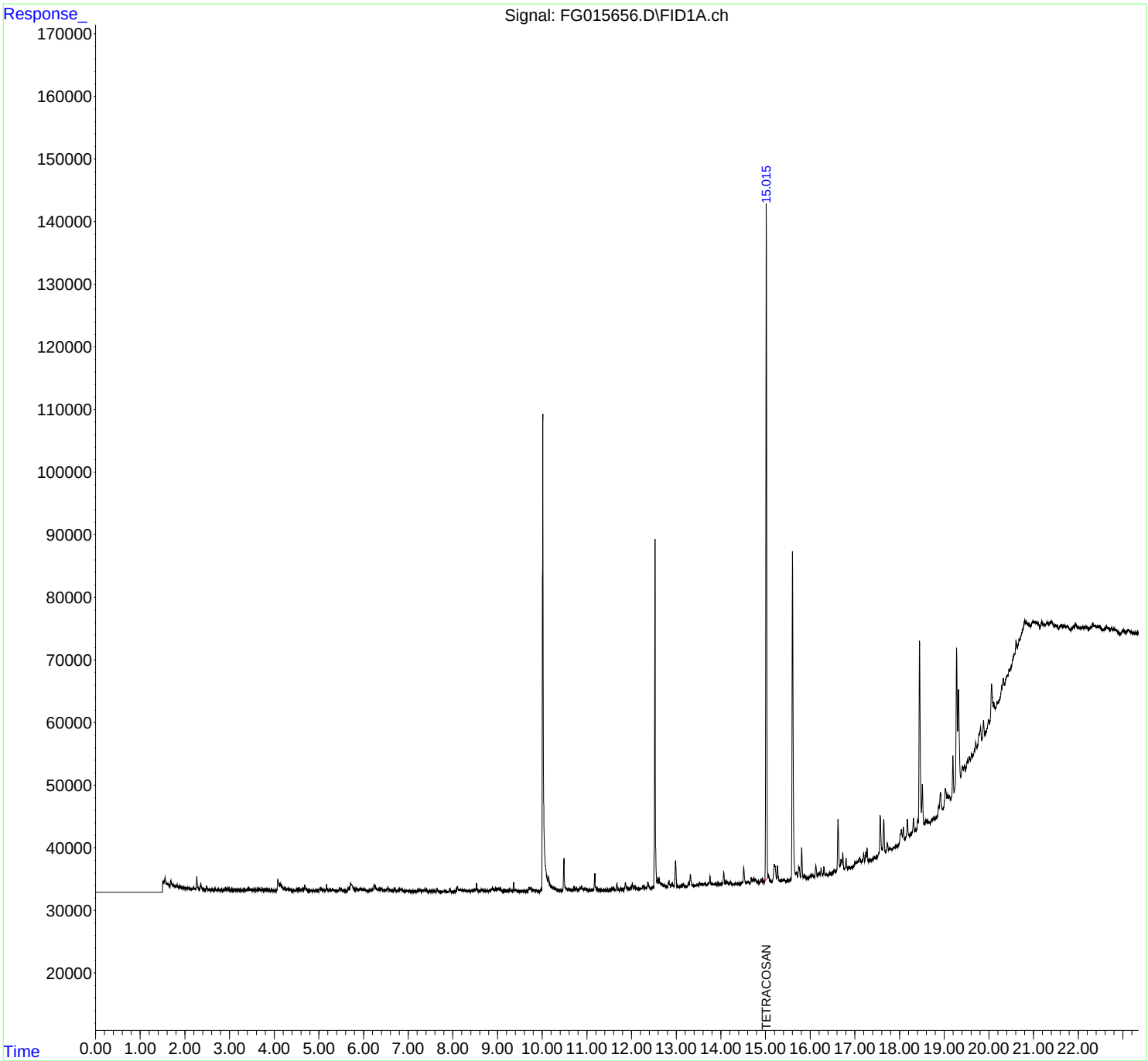
(f)=RT Delta > 1/2 Window (m)=manual int.

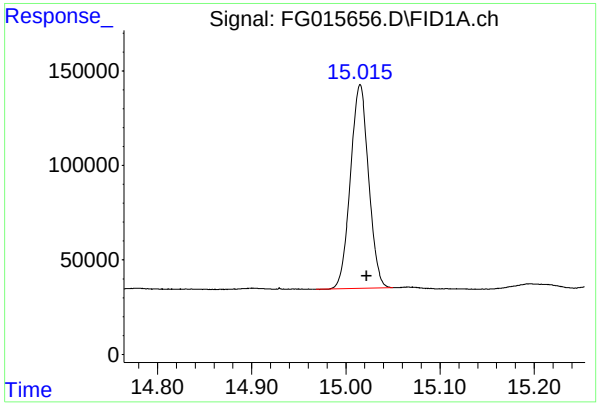
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015656.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:31
Operator : YP\AJ
Sample : Q1744-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02

Integration File: autoint1.e
Quant Time: Apr 09 00:29:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.015 min
Delta R.T.: -0.007 mi
Response: 1443811
Conc: 12.60 ug/m

Instrument :
FID_G
ClientSampleId :
B-158-SB02

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015656.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:31
Sample : Q1744-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.821	1.800	1.857	BV	462	4528	0.31%	0.022%
2	1.876	1.857	1.893	PV	338	3181	0.22%	0.016%
3	1.895	1.893	1.901	VV	90	314	0.02%	0.002%
4	1.919	1.901	1.930	VV	161	1373	0.09%	0.007%
5	1.942	1.930	1.958	VV	189	1726	0.12%	0.008%
6	1.965	1.958	1.978	PV	178	920	0.06%	0.004%
7	1.984	1.978	2.002	VV	154	1387	0.09%	0.007%
8	2.006	2.002	2.017	VV	99	750	0.05%	0.004%
9	2.020	2.017	2.031	VV	131	743	0.05%	0.004%
10	2.041	2.031	2.047	VV	177	872	0.06%	0.004%
11	2.056	2.047	2.090	VV	216	2806	0.19%	0.014%
12	2.118	2.090	2.134	VV	207	3190	0.22%	0.016%
13	2.139	2.134	2.153	VV	225	1593	0.11%	0.008%
14	2.158	2.153	2.170	PV	173	1196	0.08%	0.006%
15	2.180	2.170	2.186	VV	210	1184	0.08%	0.006%
16	2.198	2.186	2.249	VV	529	9783	0.67%	0.048%
17	2.267	2.249	2.326	VV	2207	31072	2.12%	0.152%
18	2.330	2.326	2.334	VV	171	849	0.06%	0.004%
19	2.354	2.334	2.415	VV	1107	21473	1.46%	0.105%
20	2.425	2.415	2.442	VV	298	2673	0.18%	0.013%
21	2.457	2.442	2.467	VV	184	1757	0.12%	0.009%
22	2.489	2.467	2.544	VV	717	12665	0.86%	0.062%
23	2.557	2.544	2.568	VV	192	1930	0.13%	0.009%
24	2.578	2.568	2.591	VV	230	1727	0.12%	0.008%
25	2.600	2.591	2.629	VV	173	1925	0.13%	0.009%
26	2.644	2.629	2.654	VV	122	804	0.05%	0.004%
27	2.668	2.654	2.708	VV	393	6305	0.43%	0.031%
28	2.713	2.708	2.742	VV	166	2192	0.15%	0.011%
29	2.747	2.742	2.756	VV	162	942	0.06%	0.005%
30	2.760	2.756	2.764	VV	157	635	0.04%	0.003%
31	2.770	2.764	2.776	VV	187	928	0.06%	0.005%
32	2.787	2.776	2.795	VV	187	1367	0.09%	0.007%
33	2.804	2.795	2.814	VV	117	752	0.05%	0.004%
34	2.820	2.814	2.832	PV	101	958	0.07%	0.005%
35	2.836	2.832	2.850	VV	140	1067	0.07%	0.005%
36	2.893	2.850	2.902	VV	335	5403	0.37%	0.026%

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37	2.907	2.902	2.925	VV	288	3474	0.24%	0.017%
38	2.933	2.925	2.943	VV	275	2545	0.17%	0.012%
39	2.947	2.943	2.963	VV	312	2807	0.19%	0.014%
40	2.974	2.963	2.998	VV	382	5823	0.40%	0.028%
41	3.000	2.998	3.015	VV	295	1802	0.12%	0.009%
42	3.021	3.015	3.029	VV	231	1385	0.09%	0.007%
43	3.036	3.029	3.041	VV	219	1041	0.07%	0.005%
44	3.051	3.041	3.070	VV	241	2425	0.17%	0.012%
45	3.073	3.070	3.083	VV	124	880	0.06%	0.004%
46	3.088	3.083	3.100	VV	160	1252	0.09%	0.006%
47	3.126	3.100	3.143	VV	263	4095	0.28%	0.020%
48	3.154	3.143	3.164	VV	216	1858	0.13%	0.009%
49	3.186	3.164	3.205	VV	210	3279	0.22%	0.016%
50	3.213	3.205	3.232	VV	179	1832	0.12%	0.009%
51	3.247	3.232	3.297	VV	207	4888	0.33%	0.024%
52	3.307	3.297	3.314	VV	169	1061	0.07%	0.005%
53	3.350	3.314	3.356	VV	223	2741	0.19%	0.013%
54	3.378	3.356	3.381	VV	211	2408	0.16%	0.012%
55	3.388	3.381	3.391	VV	247	1164	0.08%	0.006%
56	3.394	3.391	3.397	VV	263	827	0.06%	0.004%
57	3.413	3.397	3.467	VV	369	10529	0.72%	0.051%
58	3.479	3.467	3.488	VV	283	2631	0.18%	0.013%
59	3.491	3.488	3.499	VV	207	1294	0.09%	0.006%
60	3.505	3.499	3.524	VV	201	2571	0.18%	0.013%
61	3.528	3.524	3.546	VV	213	2071	0.14%	0.010%
62	3.574	3.546	3.585	VV	229	3837	0.26%	0.019%
63	3.589	3.585	3.599	VV	240	1223	0.08%	0.006%
64	3.612	3.599	3.618	VV	201	1704	0.12%	0.008%
65	3.629	3.618	3.668	VV	297	7273	0.50%	0.036%
66	3.673	3.668	3.685	VV	205	2004	0.14%	0.010%
67	3.699	3.685	3.732	VV	288	6462	0.44%	0.032%
68	3.742	3.732	3.772	VV	259	4276	0.29%	0.021%
69	3.778	3.772	3.794	VV	272	2385	0.16%	0.012%
70	3.813	3.794	3.819	VV	349	3834	0.26%	0.019%
71	3.822	3.819	3.837	VV	246	2326	0.16%	0.011%
72	3.840	3.837	3.858	VV	208	2137	0.15%	0.010%
73	3.864	3.858	3.874	VV	196	1310	0.09%	0.006%
74	3.879	3.874	3.892	VV	145	1377	0.09%	0.007%
75	3.895	3.892	3.910	VV	145	1094	0.07%	0.005%
76	3.949	3.910	3.990	VV	234	6556	0.45%	0.032%
77	3.995	3.990	4.001	VV	129	712	0.05%	0.003%
78	4.010	4.001	4.025	VV	156	1334	0.09%	0.007%
79	4.034	4.025	4.043	VV	139	1172	0.08%	0.006%
80	4.048	4.043	4.060	VV	164	1356	0.09%	0.007%
81	4.081	4.060	4.115	VV	1733	37863	2.58%	0.185%
82	4.130	4.115	4.137	VV	1262	14334	0.98%	0.070%
83	4.142	4.137	4.201	VV	1151	30187	2.06%	0.147%
84	4.205	4.201	4.216	VV	497	4110	0.28%	0.020%
85	4.235	4.216	4.274	VV	559	15158	1.03%	0.074%
86	4.280	4.274	4.324	VV	413	9494	0.65%	0.046%
87	4.336	4.324	4.377	VV	363	8175	0.56%	0.040%
88	4.385	4.377	4.411	VV	215	3306	0.23%	0.016%
89	4.422	4.411	4.433	VV	204	1888	0.13%	0.009%

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90	4.437	4.433	4.441	VV	139	603	0.04%	0.003%
91	4.444	4.441	4.457	VV	132	1186	0.08%	0.006%
92	4.463	4.457	4.485	VV	206	2201	0.15%	0.011%
93	4.514	4.485	4.541	VV	515	8201	0.56%	0.040%
94	4.552	4.541	4.572	VV	367	5492	0.37%	0.027%
95	4.591	4.572	4.602	VV	378	5702	0.39%	0.028%
96	4.607	4.602	4.619	VV	341	2898	0.20%	0.014%
97	4.635	4.619	4.655	VV	402	6568	0.45%	0.032%
98	4.685	4.655	4.711	VV	1062	17190	1.17%	0.084%
99	4.716	4.711	4.751	VV	322	5630	0.38%	0.027%
100	4.768	4.751	4.776	VV	202	2406	0.16%	0.012%
101	4.780	4.776	4.784	VV	147	595	0.04%	0.003%
102	4.792	4.784	4.812	VV	220	2521	0.17%	0.012%
103	4.822	4.812	4.865	VV	181	4212	0.29%	0.021%
104	4.869	4.865	4.877	VV	156	610	0.04%	0.003%
105	4.905	4.877	4.919	VV	181	2753	0.19%	0.013%
106	4.935	4.919	4.944	VV	243	2540	0.17%	0.012%
107	4.948	4.944	4.961	VV	213	1270	0.09%	0.006%
108	4.982	4.961	5.000	VV	204	3392	0.23%	0.017%
109	5.026	5.000	5.042	VV	633	8976	0.61%	0.044%
110	5.069	5.042	5.140	VV	343	14858	1.01%	0.073%
111	5.174	5.140	5.201	VV	761	12139	0.83%	0.059%
112	5.222	5.201	5.227	VV	363	4262	0.29%	0.021%
113	5.242	5.227	5.249	VV	371	3783	0.26%	0.018%
114	5.266	5.249	5.278	VV	334	5044	0.34%	0.025%
115	5.283	5.278	5.292	VV	273	1918	0.13%	0.009%
116	5.305	5.292	5.324	VV	532	7297	0.50%	0.036%
117	5.330	5.324	5.402	VV	296	8440	0.57%	0.041%
118	5.407	5.402	5.433	VV	197	2619	0.18%	0.013%
119	5.470	5.433	5.496	VV	661	12562	0.86%	0.061%
120	5.502	5.496	5.507	VV	353	2178	0.15%	0.011%
121	5.513	5.507	5.529	VV	336	3761	0.26%	0.018%
122	5.537	5.529	5.549	VV	274	2328	0.16%	0.011%
123	5.553	5.549	5.573	VV	195	2307	0.16%	0.011%
124	5.575	5.573	5.601	VV	220	2519	0.17%	0.012%
125	5.604	5.601	5.621	VV	167	1384	0.09%	0.007%
126	5.633	5.621	5.638	VV	220	1433	0.10%	0.007%
127	5.657	5.638	5.675	VV	682	9220	0.63%	0.045%
128	5.687	5.675	5.697	VV	751	7444	0.51%	0.036%
129	5.713	5.697	5.730	VV	1366	22367	1.52%	0.109%
130	5.737	5.730	5.816	VV	1162	34301	2.34%	0.167%
131	5.822	5.816	5.838	VV	392	4849	0.33%	0.024%
132	5.854	5.838	5.879	VV	564	10294	0.70%	0.050%
133	5.889	5.879	5.907	VV	426	5633	0.38%	0.028%
134	5.927	5.907	5.937	VV	501	7414	0.50%	0.036%
135	5.951	5.937	5.970	VV	588	8744	0.60%	0.043%
136	5.983	5.970	6.000	VV	522	6346	0.43%	0.031%
137	6.005	6.000	6.021	VV	441	4349	0.30%	0.021%
138	6.033	6.021	6.047	VV	381	4504	0.31%	0.022%
139	6.051	6.047	6.079	VV	251	3441	0.23%	0.017%
140	6.136	6.079	6.142	VV	294	7101	0.48%	0.035%
141	6.148	6.142	6.161	VV	279	2787	0.19%	0.014%

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142	6.179	6.161	6.183	VV	364	3860	0.26%	0.019%
143	6.190	6.183	6.194	VV	363	2066	0.14%	0.010%
144	6.204	6.194	6.210	VV	434	3796	0.26%	0.019%
145	6.234	6.210	6.254	VV	1131	20090	1.37%	0.098%
146	6.259	6.254	6.264	VV	701	3869	0.26%	0.019%
147	6.269	6.264	6.306	VV	713	14523	0.99%	0.071%
148	6.311	6.306	6.322	VV	414	3687	0.25%	0.018%
149	6.327	6.322	6.333	VV	444	2369	0.16%	0.012%
150	6.340	6.333	6.358	VV	437	5342	0.36%	0.026%
151	6.365	6.358	6.373	VV	395	2815	0.19%	0.014%
152	6.383	6.373	6.391	VV	432	4262	0.29%	0.021%
153	6.406	6.391	6.433	VV	627	10983	0.75%	0.054%
154	6.437	6.433	6.475	VV	347	5885	0.40%	0.029%
155	6.483	6.475	6.499	VV	320	3891	0.27%	0.019%
156	6.508	6.499	6.513	VV	395	2644	0.18%	0.013%
157	6.518	6.513	6.522	VV	372	1627	0.11%	0.008%
158	6.539	6.522	6.570	VV	712	13660	0.93%	0.067%
159	6.579	6.570	6.594	VV	379	4390	0.30%	0.021%
160	6.597	6.594	6.605	VV	294	1696	0.12%	0.008%
161	6.626	6.605	6.643	VV	361	6303	0.43%	0.031%
162	6.651	6.643	6.664	VV	286	2772	0.19%	0.014%
163	6.695	6.664	6.743	VV	588	14604	0.99%	0.071%
164	6.748	6.743	6.754	VV	222	1229	0.08%	0.006%
165	6.768	6.754	6.779	VV	273	3177	0.22%	0.016%
166	6.803	6.779	6.820	VV	512	10068	0.69%	0.049%
167	6.833	6.820	6.882	VV	494	13432	0.91%	0.066%
168	6.888	6.882	6.938	VV	255	6872	0.47%	0.034%
169	6.957	6.938	6.966	VV	220	2786	0.19%	0.014%
170	6.980	6.966	7.023	VV	255	5729	0.39%	0.028%
171	7.030	7.023	7.057	VV	174	2522	0.17%	0.012%
172	7.065	7.057	7.071	VV	141	870	0.06%	0.004%
173	7.099	7.071	7.124	VV	181	3658	0.25%	0.018%
174	7.142	7.124	7.163	VV	163	2618	0.18%	0.013%
175	7.168	7.163	7.174	VV	237	982	0.07%	0.005%
176	7.211	7.174	7.222	VV	370	6234	0.42%	0.030%
177	7.224	7.222	7.228	VV	405	1180	0.08%	0.006%
178	7.232	7.228	7.259	VV	394	5600	0.38%	0.027%
179	7.272	7.259	7.277	VV	279	2915	0.20%	0.014%
180	7.284	7.277	7.310	VV	256	4030	0.27%	0.020%
181	7.316	7.310	7.332	VV	262	3071	0.21%	0.015%
182	7.346	7.332	7.358	VV	323	4087	0.28%	0.020%
183	7.375	7.358	7.405	VV	641	10621	0.72%	0.052%
184	7.418	7.405	7.447	VV	434	5950	0.41%	0.029%
185	7.475	7.447	7.501	VV	346	5560	0.38%	0.027%
186	7.514	7.501	7.529	VV	259	3170	0.22%	0.015%
187	7.533	7.529	7.561	VV	226	3467	0.24%	0.017%
188	7.566	7.561	7.571	VV	236	985	0.07%	0.005%
189	7.585	7.571	7.621	VV	231	4165	0.28%	0.020%
190	7.647	7.621	7.694	PV	626	10465	0.71%	0.051%
191	7.699	7.694	7.703	VV	129	479	0.03%	0.002%
192	7.705	7.703	7.709	VV	109	311	0.02%	0.002%
193	7.721	7.709	7.742	VV	180	2112	0.14%	0.010%
194	7.760	7.742	7.772	VV	180	1948	0.13%	0.010%

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195	7.780	7.772	7.795	VV	179	1871	0.13%	0.009%
196	7.804	7.795	7.810	VV	162	1204	0.08%	0.006%
197	7.817	7.810	7.879	VV	203	4442	0.30%	0.022%
198	7.884	7.879	7.887	VV	117	468	0.03%	0.002%
199	7.892	7.887	7.912	VV	168	1949	0.13%	0.010%
200	7.930	7.912	7.969	VV	622	9551	0.65%	0.047%
201	7.988	7.969	8.005	VV	173	2354	0.16%	0.011%
202	8.012	8.005	8.034	VV	187	1947	0.13%	0.010%
203	8.038	8.034	8.051	VV	134	952	0.06%	0.005%
204	8.076	8.051	8.080	VV	418	4201	0.29%	0.021%
205	8.104	8.080	8.135	VV	937	18230	1.24%	0.089%
206	8.175	8.135	8.197	VV	537	14210	0.97%	0.069%
207	8.219	8.197	8.249	VV	428	9449	0.64%	0.046%
208	8.272	8.249	8.299	VV	372	8172	0.56%	0.040%
209	8.303	8.299	8.320	VV	234	2444	0.17%	0.012%
210	8.325	8.320	8.334	VV	182	1270	0.09%	0.006%
211	8.352	8.334	8.377	VV	343	5674	0.39%	0.028%
212	8.424	8.377	8.430	VV	348	6764	0.46%	0.033%
213	8.433	8.430	8.447	VV	354	2916	0.20%	0.014%
214	8.452	8.447	8.473	VV	324	4322	0.29%	0.021%
215	8.479	8.473	8.482	VV	293	1388	0.09%	0.007%
216	8.497	8.482	8.511	VV	519	6898	0.47%	0.034%
217	8.531	8.511	8.567	VV	1454	20606	1.40%	0.101%
218	8.578	8.567	8.594	VV	235	3396	0.23%	0.017%
219	8.600	8.594	8.611	VV	278	2025	0.14%	0.010%
220	8.647	8.611	8.664	VV	449	9872	0.67%	0.048%
221	8.669	8.664	8.712	VV	346	7830	0.53%	0.038%
222	8.726	8.712	8.756	VV	280	5258	0.36%	0.026%
223	8.772	8.756	8.777	VV	276	2908	0.20%	0.014%
224	8.781	8.777	8.786	VV	240	1020	0.07%	0.005%
225	8.792	8.786	8.802	VV	214	1433	0.10%	0.007%
226	8.830	8.802	8.846	VV	396	7095	0.48%	0.035%
227	8.865	8.846	8.878	VV	517	8548	0.58%	0.042%
228	8.891	8.878	8.935	VV	666	15211	1.04%	0.074%
229	8.964	8.935	8.995	VV	563	14686	1.00%	0.072%
230	9.017	8.995	9.049	VV	638	15943	1.09%	0.078%
231	9.071	9.049	9.099	VV	804	13699	0.93%	0.067%
232	9.103	9.099	9.107	VV	264	907	0.06%	0.004%
233	9.150	9.107	9.178	VV	358	9974	0.68%	0.049%
234	9.186	9.178	9.204	VV	238	2876	0.20%	0.014%
235	9.209	9.204	9.214	VV	176	921	0.06%	0.004%
236	9.221	9.214	9.244	VV	293	3413	0.23%	0.017%
237	9.275	9.244	9.320	VV	432	12026	0.82%	0.059%
238	9.331	9.320	9.335	VV	231	1442	0.10%	0.007%
239	9.361	9.335	9.386	VV	1591	20755	1.41%	0.101%
240	9.396	9.386	9.410	VV	400	4909	0.33%	0.024%
241	9.415	9.410	9.432	VV	416	3596	0.24%	0.018%
242	9.453	9.432	9.458	VV	210	2773	0.19%	0.014%
243	9.460	9.458	9.477	VV	159	1178	0.08%	0.006%
244	9.508	9.477	9.529	VV	194	3707	0.25%	0.018%
245	9.544	9.529	9.574	VV	285	4458	0.30%	0.022%
246	9.595	9.574	9.612	VV	251	3823	0.26%	0.019%

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247	9.617	9.612	9.622	VV	138	787	0.05%	0.004%
248	9.647	9.622	9.669	VV	223	4718	0.32%	0.023%
249	9.671	9.669	9.680	VV	211	971	0.07%	0.005%
250	9.705	9.680	9.723	VV	823	13136	0.89%	0.064%
251	9.743	9.723	9.796	VV	723	18756	1.28%	0.092%
252	9.811	9.796	9.852	VV	387	9142	0.62%	0.045%
253	9.865	9.852	9.880	VV	320	3769	0.26%	0.018%
254	9.887	9.880	9.892	VV	193	1201	0.08%	0.006%
255	9.897	9.892	9.910	VV	211	1536	0.10%	0.007%
256	9.922	9.910	9.945	VV	206	2775	0.19%	0.014%
257	9.978	9.945	9.987	PV	569	7303	0.50%	0.036%
258	10.014	9.987	10.127	VV	76248	1186108	80.78%	5.792%
259	10.145	10.127	10.210	VV	2466	69321	4.72%	0.339%
260	10.215	10.210	10.237	VV	853	11573	0.79%	0.057%
261	10.249	10.237	10.285	VV	803	17201	1.17%	0.084%
262	10.299	10.285	10.357	VV	548	16476	1.12%	0.080%
263	10.360	10.357	10.405	VV	292	5779	0.39%	0.028%
264	10.412	10.405	10.434	VV	283	3406	0.23%	0.017%
265	10.454	10.434	10.458	VV	220	2640	0.18%	0.013%
266	10.487	10.458	10.525	VV	5369	74089	5.05%	0.362%
267	10.534	10.525	10.558	VV	662	9727	0.66%	0.047%
268	10.579	10.558	10.587	VV	515	6689	0.46%	0.033%
269	10.593	10.587	10.600	VV	491	3152	0.21%	0.015%
270	10.602	10.600	10.609	VV	395	1783	0.12%	0.009%
271	10.626	10.609	10.654	VV	362	7470	0.51%	0.036%
272	10.668	10.654	10.687	VV	404	5482	0.37%	0.027%
273	10.715	10.687	10.749	VV	651	13784	0.94%	0.067%
274	10.755	10.749	10.766	VV	328	3184	0.22%	0.016%
275	10.772	10.766	10.805	VV	433	7609	0.52%	0.037%
276	10.809	10.805	10.826	VV	348	4062	0.28%	0.020%
277	10.846	10.826	10.868	VV	622	11447	0.78%	0.056%
278	10.889	10.868	10.909	VV	823	13868	0.94%	0.068%
279	10.920	10.909	10.940	VV	437	6660	0.45%	0.033%
280	10.959	10.940	11.005	VV	528	13277	0.90%	0.065%
281	11.020	11.005	11.041	VV	302	5035	0.34%	0.025%
282	11.047	11.041	11.058	VV	230	2038	0.14%	0.010%
283	11.063	11.058	11.084	VV	235	3039	0.21%	0.015%
284	11.086	11.084	11.097	VV	212	1147	0.08%	0.006%
285	11.112	11.097	11.133	VV	306	4496	0.31%	0.022%
286	11.181	11.133	11.247	VV	2077	44579	3.04%	0.218%
287	11.256	11.247	11.291	VV	290	5287	0.36%	0.026%
288	11.318	11.291	11.328	VV	191	2970	0.20%	0.015%
289	11.339	11.328	11.343	VV	177	1305	0.09%	0.006%
290	11.348	11.343	11.375	VV	194	2464	0.17%	0.012%
291	11.398	11.375	11.404	VV	208	1878	0.13%	0.009%
292	11.411	11.404	11.422	VV	237	1747	0.12%	0.009%
293	11.425	11.422	11.434	VV	146	525	0.04%	0.003%
294	11.454	11.434	11.492	VV	223	4742	0.32%	0.023%
295	11.499	11.492	11.503	PV	137	492	0.03%	0.002%
296	11.522	11.503	11.552	VV	265	4975	0.34%	0.024%
297	11.563	11.552	11.578	VV	384	4526	0.31%	0.022%
298	11.594	11.578	11.622	VV	589	7710	0.53%	0.038%
299	11.625	11.622	11.634	VV	177	863	0.06%	0.004%

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300	11.639	11.634	11.644	VV	179	801	0.05%	0.004%
301	11.672	11.644	11.705	VV	1215	18612	1.27%	0.091%
302	11.707	11.705	11.731	VV	153	1287	0.09%	0.006%
303	11.754	11.731	11.772	VV	423	5657	0.39%	0.028%
304	11.790	11.772	11.821	VV	381	4588	0.31%	0.022%
305	11.863	11.821	11.929	PV	1210	29177	1.99%	0.142%
306	11.945	11.929	11.967	VV	302	4980	0.34%	0.024%
307	11.985	11.967	11.997	VV	428	5470	0.37%	0.027%
308	12.018	11.997	12.057	VV	1175	22199	1.51%	0.108%
309	12.077	12.057	12.094	VV	732	10221	0.70%	0.050%
310	12.126	12.094	12.159	VV	304	6921	0.47%	0.034%
311	12.172	12.159	12.177	VV	134	753	0.05%	0.004%
312	12.183	12.177	12.189	VV	123	539	0.04%	0.003%
313	12.196	12.189	12.202	VV	198	989	0.07%	0.005%
314	12.205	12.202	12.225	VV	181	1952	0.13%	0.010%
315	12.265	12.225	12.307	VV	620	16130	1.10%	0.079%
316	12.321	12.307	12.334	VV	363	4009	0.27%	0.020%
317	12.363	12.334	12.439	VV	1179	29827	2.03%	0.146%
318	12.445	12.439	12.450	PV	97	482	0.03%	0.002%
319	12.472	12.450	12.490	VV	480	6814	0.46%	0.033%
320	12.524	12.490	12.575	VV	55706	691570	47.10%	3.377%
321	12.591	12.575	12.607	VV	1856	26994	1.84%	0.132%
322	12.620	12.607	12.640	VV	1641	23378	1.59%	0.114%
323	12.644	12.640	12.675	VV	937	15999	1.09%	0.078%
324	12.689	12.675	12.713	VV	731	13605	0.93%	0.066%
325	12.735	12.713	12.784	VV	621	18198	1.24%	0.089%
326	12.790	12.784	12.804	VV	295	2489	0.17%	0.012%
327	12.836	12.804	12.881	VV	1173	28722	1.96%	0.140%
328	12.908	12.881	12.942	VV	857	18727	1.28%	0.091%
329	12.949	12.942	12.954	VV	274	1870	0.13%	0.009%
330	12.984	12.954	13.037	VV	4215	75786	5.16%	0.370%
331	13.054	13.037	13.064	VV	265	3088	0.21%	0.015%
332	13.066	13.064	13.074	VV	219	1094	0.07%	0.005%
333	13.079	13.074	13.095	VV	190	1913	0.13%	0.009%
334	13.115	13.095	13.139	VV	448	6501	0.44%	0.032%
335	13.163	13.139	13.196	VV	582	10714	0.73%	0.052%
336	13.276	13.196	13.292	VV	766	15713	1.07%	0.077%
337	13.315	13.292	13.364	VV	1945	40018	2.73%	0.195%
338	13.367	13.364	13.377	VV	224	1330	0.09%	0.006%
339	13.393	13.377	13.414	VV	284	4791	0.33%	0.023%
340	13.424	13.414	13.443	VV	272	3564	0.24%	0.017%
341	13.469	13.443	13.500	VV	366	7756	0.53%	0.038%
342	13.523	13.500	13.544	PV	663	10737	0.73%	0.052%
343	13.549	13.544	13.565	VV	418	4522	0.31%	0.022%
344	13.581	13.565	13.589	VV	387	4659	0.32%	0.023%
345	13.599	13.589	13.626	VV	409	7055	0.48%	0.034%
346	13.632	13.626	13.635	VV	327	1608	0.11%	0.008%
347	13.651	13.635	13.686	VV	426	8250	0.56%	0.040%
348	13.701	13.686	13.714	VV	317	4024	0.27%	0.020%
349	13.731	13.714	13.737	VV	508	5779	0.39%	0.028%
350	13.755	13.737	13.790	VV	1460	24412	1.66%	0.119%
351	13.808	13.790	13.840	VV	455	8345	0.57%	0.041%

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352	13.844	13.840	13.849	VV	198	963	0.07%	0.005%
353	13.877	13.849	13.883	VV	359	5352	0.36%	0.026%
354	13.885	13.883	13.893	VV	255	1477	0.10%	0.007%
355	13.916	13.893	13.920	VV	336	4323	0.29%	0.021%
356	13.932	13.920	13.950	VV	332	4888	0.33%	0.024%
357	13.955	13.950	13.962	VV	232	1700	0.12%	0.008%
358	13.984	13.962	14.002	VV	303	4818	0.33%	0.024%
359	14.019	14.002	14.035	VV	339	4975	0.34%	0.024%
360	14.064	14.035	14.090	VV	2160	31865	2.17%	0.156%
361	14.110	14.090	14.130	VV	717	11431	0.78%	0.056%
362	14.136	14.130	14.186	VV	475	10021	0.68%	0.049%
363	14.223	14.186	14.257	VV	433	9836	0.67%	0.048%
364	14.265	14.257	14.289	VV	117	979	0.07%	0.005%
365	14.297	14.289	14.302	VV	115	551	0.04%	0.003%
366	14.320	14.302	14.326	VV	181	1696	0.12%	0.008%
367	14.330	14.326	14.339	VV	209	1193	0.08%	0.006%
368	14.347	14.339	14.353	VV	189	1161	0.08%	0.006%
369	14.357	14.353	14.364	VV	110	487	0.03%	0.002%
370	14.389	14.364	14.407	VV	205	3096	0.21%	0.015%
371	14.412	14.407	14.424	VV	134	619	0.04%	0.003%
372	14.431	14.424	14.449	VV	118	869	0.06%	0.004%
373	14.474	14.449	14.487	VV	393	5821	0.40%	0.028%
374	14.509	14.487	14.568	VV	2687	50342	3.43%	0.246%
375	14.580	14.568	14.587	VV	197	1839	0.13%	0.009%
376	14.607	14.587	14.651	VV	400	9089	0.62%	0.044%
377	14.678	14.651	14.702	VV	1015	17611	1.20%	0.086%
378	14.707	14.702	14.722	VV	614	6265	0.43%	0.031%
379	14.738	14.722	14.758	VV	853	13927	0.95%	0.068%
380	14.778	14.758	14.833	VV	713	16971	1.16%	0.083%
381	14.835	14.833	14.861	VV	267	2199	0.15%	0.011%
382	14.900	14.861	14.924	PV	699	12464	0.85%	0.061%
383	14.930	14.924	14.936	VV	563	1928	0.13%	0.009%
384	14.945	14.936	14.979	VV	201	3893	0.27%	0.019%
385	15.015	14.979	15.051	VV	108484	1468393	100.00%	7.170%
386	15.066	15.051	15.144	VV	1201	28371	1.93%	0.139%
387	15.196	15.144	15.245	VV	2928	92288	6.28%	0.451%
388	15.265	15.245	15.308	VV	2601	43927	2.99%	0.215%
389	15.315	15.308	15.321	VV	243	1418	0.10%	0.007%
390	15.326	15.321	15.355	VV	231	2716	0.18%	0.013%
391	15.369	15.355	15.390	VV	352	4837	0.33%	0.024%
392	15.414	15.390	15.450	VV	506	8835	0.60%	0.043%
393	15.512	15.450	15.523	PV	165	4494	0.31%	0.022%
394	15.529	15.523	15.533	VV	150	698	0.05%	0.003%
395	15.556	15.533	15.567	VV	246	2995	0.20%	0.015%
396	15.602	15.567	15.673	VV	52542	872139	59.39%	4.259%
397	15.695	15.673	15.715	VV	1310	25893	1.76%	0.126%
398	15.748	15.715	15.779	VV	2017	48249	3.29%	0.236%
399	15.809	15.779	15.839	VV	5016	73644	5.02%	0.360%
400	15.844	15.839	15.848	VV	385	1644	0.11%	0.008%
401	15.870	15.848	15.910	VV	564	13097	0.89%	0.064%
402	15.913	15.910	15.920	VV	191	927	0.06%	0.005%
403	15.923	15.920	15.944	VV	183	1480	0.10%	0.007%
404	16.033	15.944	16.045	PV	340	12263	0.84%	0.060%

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405	16.050	16.045	16.079	VV	286	4324	0.29%	0.021%
406	16.084	16.079	16.098	VV	218	1893	0.13%	0.009%
407	16.124	16.098	16.160	VV	1878	34471	2.35%	0.168%
408	16.176	16.160	16.182	VV	318	3493	0.24%	0.017%
409	16.203	16.182	16.224	VV	701	11114	0.76%	0.054%
410	16.243	16.224	16.282	VV	1235	19709	1.34%	0.096%
411	16.308	16.282	16.340	VV	1398	20351	1.39%	0.099%
412	16.347	16.340	16.352	VV	113	572	0.04%	0.003%
413	16.357	16.352	16.362	VV	117	557	0.04%	0.003%
414	16.374	16.362	16.397	VV	200	1927	0.13%	0.009%
415	16.440	16.397	16.470	PV	315	7169	0.49%	0.035%
416	16.541	16.470	16.575	VV	513	13503	0.92%	0.066%
417	16.583	16.575	16.587	VV	277	1748	0.12%	0.009%
418	16.621	16.587	16.660	VV	8359	148072	10.08%	0.723%
419	16.689	16.660	16.710	VV	1936	40638	2.77%	0.198%
420	16.729	16.710	16.760	VV	2779	43016	2.93%	0.210%
421	16.803	16.760	16.836	VV	1821	32165	2.19%	0.157%
422	16.841	16.836	16.844	VV	89	214	0.01%	0.001%
423	16.870	16.844	16.887	VV	362	6401	0.44%	0.031%
424	16.892	16.887	16.910	VV	190	1981	0.13%	0.010%
425	16.916	16.910	16.936	VV	133	1147	0.08%	0.006%
426	16.951	16.936	16.957	PV	178	1218	0.08%	0.006%
427	16.959	16.957	16.963	VV	181	408	0.03%	0.002%
428	17.013	16.963	17.037	VV	743	21119	1.44%	0.103%
429	17.107	17.037	17.142	VV	1262	47636	3.24%	0.233%
430	17.162	17.142	17.170	VV	663	8886	0.61%	0.043%
431	17.195	17.170	17.220	VV	1700	29046	1.98%	0.142%
432	17.242	17.220	17.257	VV	1747	24074	1.64%	0.118%
433	17.273	17.257	17.302	VV	2253	30442	2.07%	0.149%
434	17.329	17.302	17.334	PV	191	2881	0.20%	0.014%
435	17.347	17.334	17.369	VV	191	2365	0.16%	0.012%
436	17.385	17.369	17.394	VV	135	1075	0.07%	0.005%
437	17.404	17.394	17.408	VV	123	558	0.04%	0.003%
438	17.433	17.408	17.453	PV	355	6340	0.43%	0.031%
439	17.479	17.453	17.490	VV	228	3619	0.25%	0.018%
440	17.566	17.490	17.618	VV	6524	132996	9.06%	0.649%
441	17.646	17.618	17.687	VV	5574	92541	6.30%	0.452%
442	17.727	17.687	17.758	VV	1399	28025	1.91%	0.137%
443	17.768	17.758	17.774	VV	428	3374	0.23%	0.016%
444	17.778	17.774	17.784	VV	326	1794	0.12%	0.009%
445	17.788	17.784	17.807	VV	319	3548	0.24%	0.017%
446	17.810	17.807	17.846	VV	163	2174	0.15%	0.011%
447	17.941	17.846	17.950	PV	161	8001	0.54%	0.039%
448	18.039	17.950	18.062	PV	2337	65872	4.49%	0.322%
449	18.085	18.062	18.114	VV	2437	42490	2.89%	0.207%
450	18.174	18.114	18.200	VV	3216	63184	4.30%	0.309%
451	18.310	18.200	18.340	VV	2682	69851	4.76%	0.341%
452	18.360	18.340	18.375	VV	641	10779	0.73%	0.053%
453	18.407	18.375	18.418	VV	1926	31461	2.14%	0.154%
454	18.446	18.418	18.489	VV	30230	551047	37.53%	2.691%
455	18.510	18.489	18.550	VV	6958	121818	8.30%	0.595%
456	18.576	18.550	18.590	VV	1006	17950	1.22%	0.088%

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457	18.607	18.590	18.637	VV	931	17798	1.21%	0.087%
458	18.644	18.637	18.674	VV	464	5894	0.40%	0.029%
459	18.720	18.674	18.733	VV	327	5431	0.37%	0.027%
460	18.756	18.733	18.760	VV	378	5029	0.34%	0.025%
461	18.797	18.760	18.800	VV	244	6546	0.45%	0.032%
462	18.807	18.800	18.830	VV	256	2535	0.17%	0.012%
463	18.915	18.830	18.971	PV	3421	100803	6.86%	0.492%
464	19.028	18.971	19.059	VV	2966	76738	5.23%	0.375%
465	19.076	19.059	19.100	VV	1508	28114	1.91%	0.137%
466	19.117	19.100	19.144	VV	995	15700	1.07%	0.077%
467	19.194	19.144	19.222	VV	6636	95572	6.51%	0.467%
468	19.277	19.222	19.299	VV	23085	413449	28.16%	2.019%
469	19.319	19.299	19.370	VV	15990	361154	24.60%	1.764%
470	19.410	19.370	19.429	VV	2978	83790	5.71%	0.409%
471	19.455	19.429	19.478	VV	2635	66826	4.55%	0.326%
472	19.519	19.478	19.537	VV	2823	81490	5.55%	0.398%
473	19.561	19.537	19.587	VV	3075	80098	5.45%	0.391%
474	19.611	19.587	19.639	VV	3120	80081	5.45%	0.391%
475	19.706	19.639	19.728	VV	3960	161903	11.03%	0.791%
476	19.785	19.728	19.790	VV	4694	140885	9.59%	0.688%
477	19.813	19.790	19.842	VV	5508	137964	9.40%	0.674%
478	19.879	19.842	19.913	VV	5907	180447	12.29%	0.881%
479	19.990	19.913	20.017	VV	4871	249513	16.99%	1.218%
480	20.060	20.017	20.094	VV	10073	327968	22.34%	1.602%
481	20.109	20.094	20.142	VV	6658	172746	11.76%	0.844%
482	20.189	20.142	20.205	VV	5964	210444	14.33%	1.028%
483	20.320	20.205	20.345	VV	8504	579551	39.47%	2.830%
484	20.411	20.345	20.425	VV	8197	372804	25.39%	1.820%
485	20.453	20.425	20.463	VV	8750	187411	12.76%	0.915%
486	20.608	20.463	20.630	VV	11916	976589	66.51%	4.769%
487	20.644	20.630	20.648	VV	10688	116890	7.96%	0.571%
488	20.804	20.648	20.820	VV	13294	1227847	83.62%	5.996%
489	20.827	20.820	20.854	VV	12874	262698	17.89%	1.283%
490	20.859	20.854	20.870	VV	12315	117432	8.00%	0.573%
491	20.912	20.870	20.940	VV	11767	484007	32.96%	2.363%
492	20.989	20.940	21.018	VV	11441	529470	36.06%	2.586%
493	21.049	21.018	21.087	VV	10820	438237	29.84%	2.140%
494	21.097	21.087	21.139	VV	10245	304880	20.76%	1.489%
495	21.190	21.139	21.219	VV	9500	437239	29.78%	2.135%
496	21.228	21.219	21.238	VV	8764	99178	6.75%	0.484%
497	21.247	21.238	21.260	VV	8506	113847	7.75%	0.556%
498	21.307	21.260	21.330	VV	8343	344717	23.48%	1.683%
499	21.404	21.330	21.462	VV	7484	577828	39.35%	2.822%
500	21.490	21.462	21.507	VV	6192	164935	11.23%	0.805%
501	21.518	21.507	21.564	VV	5860	185435	12.63%	0.906%
502	21.620	21.564	21.647	VV	4914	245114	16.69%	1.197%
503	21.671	21.647	21.690	VV	4322	111199	7.57%	0.543%
504	21.706	21.690	21.744	VV	4052	123142	8.39%	0.601%
505	21.758	21.744	21.836	VV	3636	160179	10.91%	0.782%
506	21.895	21.836	21.915	VV	2225	103628	7.06%	0.506%
507	21.948	21.915	21.987	VV	2206	75186	5.12%	0.367%
508	21.995	21.987	22.027	VV	1163	23138	1.58%	0.113%
509	22.078	22.027	22.100	VBA	363	38116	2.60%	0.186%

rteres
Sum of corrected areas: 20478423

FG032725.M Wed Apr 09 00:57:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015653.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 12:50
Operator : YP\AJ
Sample : PB167510BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BL

Integration File: autoint1.e
Quant Time: Apr 09 00:28:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.016	1859144	16.228 ug/ml
Target Compounds			

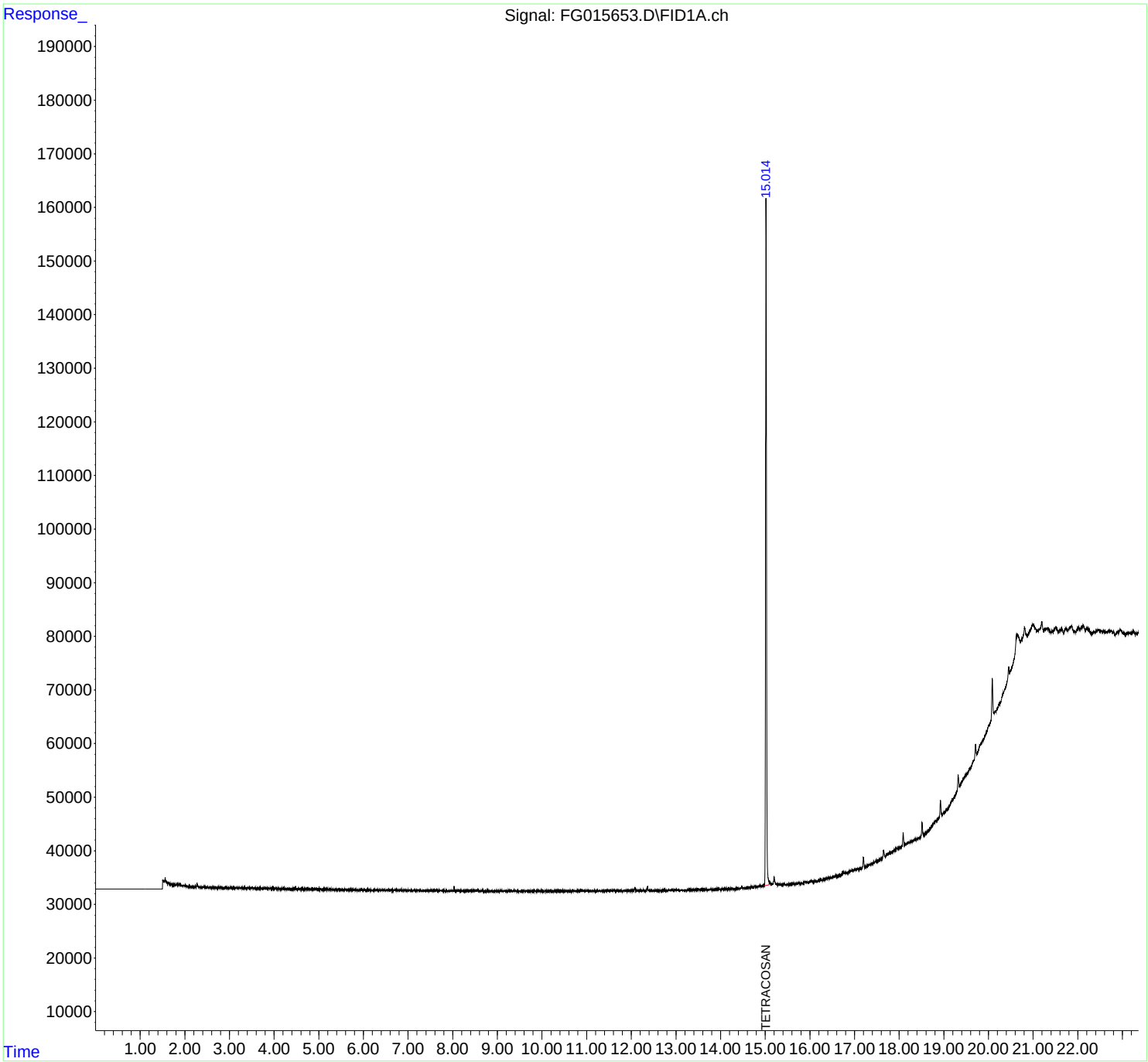
(f)=RT Delta > 1/2 Window (m)=manual int.

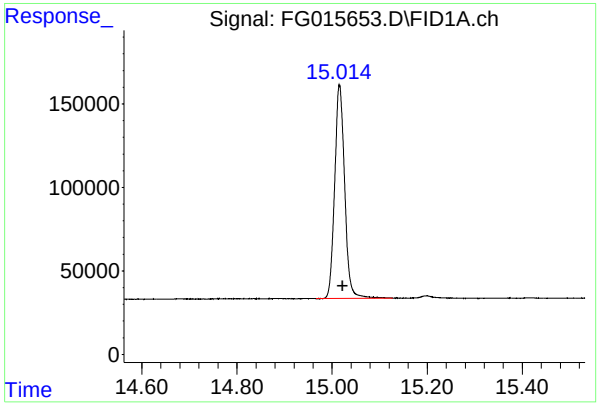
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015653.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 12:50
Operator : YP\AJ
Sample : PB167510BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BL

Integration File: autoint1.e
Quant Time: Apr 09 00:28:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.016 min
Delta R.T.: -0.007 mi
Response: 1859144
Conc: 16.23 ug/m

Instrument :
FID_G
ClientSampleId :
PB167510BL

12

A B C D E F G H I J

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015653.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 12:50
Sample : PB167510BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.016	14.966	15.128	BB	127487	1859144	100.00%	100.000%
			Sum of corrected areas:			1859144		

FG032725.M Wed Apr 09 00:53:31 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015654.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 13:20
Operator : YP\AJ
Sample : PB167510BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BS

Integration File: autoint1.e
Quant Time: Apr 09 00:28:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.016	1982793	17.307 ug/ml
	Target Compounds			
1)	N-OCTANE	1.985	1456042	12.527 ug/ml
2)	N-DECANE	4.514	1869252	15.823 ug/ml
3)	N-DODECANE	6.696	2011798	16.568 ug/ml
4)	N-TETRADECANE	8.533	2031077	16.107 ug/ml
5)	N-HEXADECANE	10.148	2142178	16.637 ug/ml
6)	N-OCTADECANE	11.596	2272281	17.248 ug/ml
7)	N-EICOSANE	12.912	2251158	16.812 ug/ml
8)	N-DOCOSANE	14.114	2241118	17.246 ug/ml
10)	N-TETRACOSANE	15.221	2263252	17.473 ug/ml
11)	N-HEXACOSANE	16.246	2187317	17.186 ug/ml
12)	N-OCTACOSANE	17.199	2146273	17.170 ug/ml
13)	N-TRIACONTANE	18.089	2066980	16.513 ug/ml
14)	N-DOTRIACONTANE	18.924	1673205	14.099 ug/ml
15)	N-TETRATRIACONTANE	19.707	1046920	10.030 ug/ml
16)	N-HEXATRIACONTANE	20.450	683798	7.802 ug/ml
17)	N-OCTATRIACONTANE	21.194	543786	7.286 ug/ml
18)	N-TETRACONTANE	22.120	506549	7.647 ug/ml

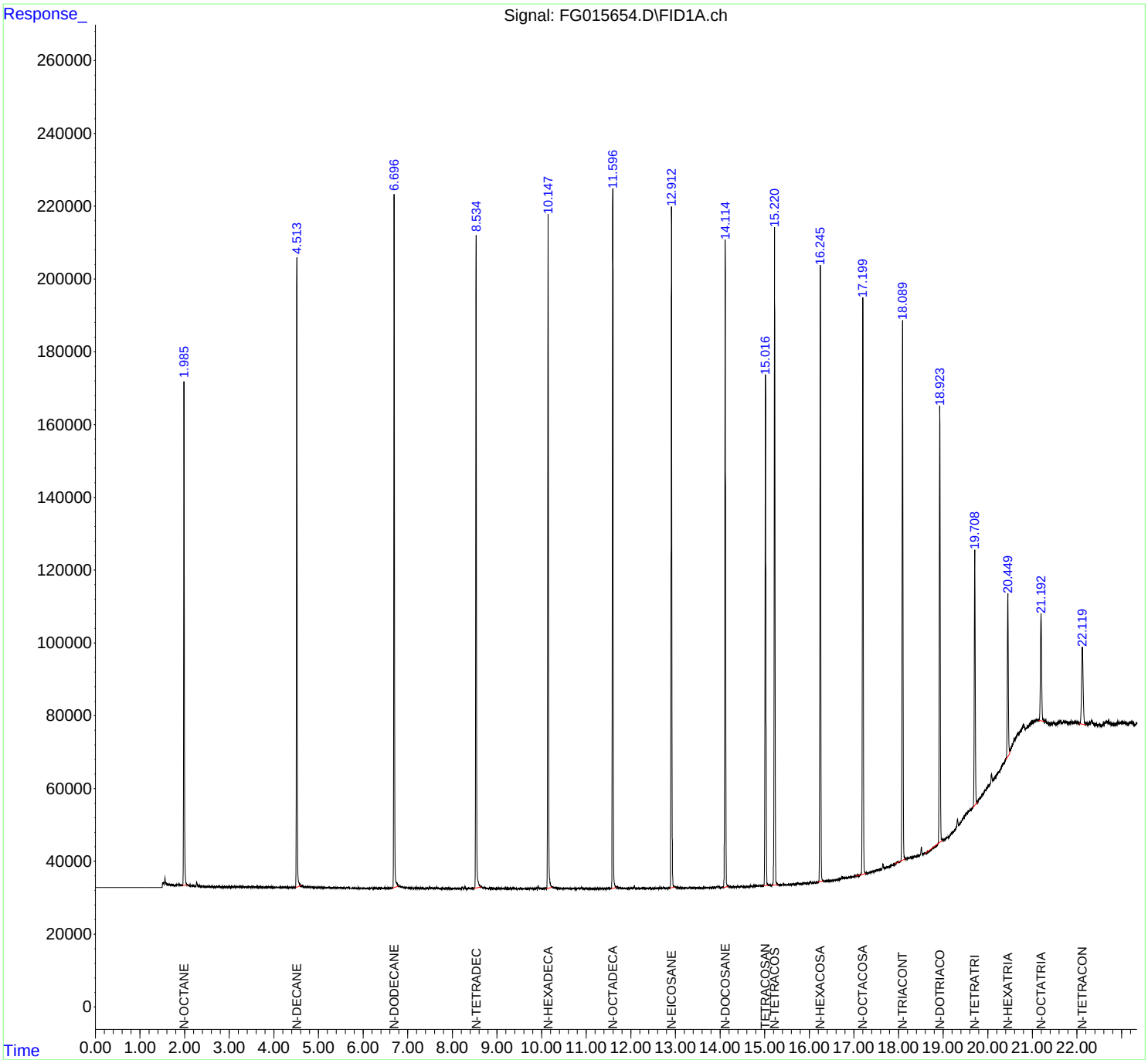
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015654.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 13:20
Operator : YP\AJ
Sample : PB167510BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167510BS

Integration File: autoint1.e
Quant Time: Apr 09 00:28:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015654.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 13:20
Sample : PB167510BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.985	1.943	2.067	BB	138224	1456042	64.08%	4.641%
2	4.514	4.484	4.606	BB	173040	1869252	82.26%	5.958%
3	6.696	6.658	6.793	BB	189485	2011798	88.54%	6.412%
4	8.533	8.468	8.644	BB	178198	2031077	89.38%	6.473%
5	10.148	10.106	10.241	BB	184880	2142178	94.27%	6.827%
6	11.596	11.560	11.679	BB	192306	2272281	100.00%	7.242%
7	12.912	12.873	12.988	BB	186932	2251158	99.07%	7.175%
8	14.114	14.075	14.183	BB	177499	2241118	98.63%	7.143%
9	15.016	14.965	15.091	BB	140099	1982793	87.26%	6.320%
10	15.221	15.158	15.302	BB	180436	2263252	99.60%	7.213%
11	16.246	16.197	16.316	BB	169258	2187317	96.26%	6.971%
12	17.199	17.046	17.273	BB	158487	2146273	94.45%	6.841%
13	18.089	17.914	18.153	BB	147827	2066980	90.96%	6.588%
14	18.924	18.601	18.986	BB	119367	1673205	73.64%	5.333%
15	19.707	19.660	19.764	BV	70209	1046920	46.07%	3.337%
16	20.450	20.400	20.493	BV	44745	683798	30.09%	2.179%
17	21.194	21.140	21.268	BB	29187	543786	23.93%	1.733%
18	22.120	22.049	22.197	BB	21134	506549	22.29%	1.614%
			Sum of corrected areas:			31375775		

FG032725.M Wed Apr 09 00:54:34 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015659.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:59
Operator : YP\AJ
Sample : Q1744-03MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02MS

Integration File: autoint1.e
Quant Time: Apr 09 00:30:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S TETRACOSANE-d50 (SURR...	15.014	1325739	11.572 ug/ml
	Target Compounds			
1)	N-OCTANE	1.985	1493139	12.846 ug/ml
2)	N-DECANE	4.513	1745219	14.773 ug/ml
3)	N-DODECANE	6.696	1875048	15.442 ug/ml
4)	N-TETRADECANE	8.532	1932341	15.324 ug/ml
5)	N-HEXADECANE	10.146	2110395	16.390 ug/ml
6)	N-OCTADECANE	11.595	2232897	16.949 ug/ml
7)	N-EICOSANE	12.910	2223860	16.608 ug/ml
8)	N-DOCOSANE	14.113	2201270	16.940 ug/ml
10)	N-TETRACOSANE	15.219	2264399	17.482 ug/ml
11)	N-HEXACOSANE	16.244	2143852	16.844 ug/ml
12)	N-OCTACOSANE	17.196	2110410	16.883 ug/ml
13)	N-TRIACONTANE	18.086	2033911	16.249 ug/ml
14)	N-DOTRIACONTANE	18.921	1723189	14.520 ug/ml
15)	N-TETRATRIACONTANE	19.706	1038234	9.947 ug/ml
16)	N-HEXATRIACONTANE	20.447	652010	7.439 ug/ml
17)	N-OCTATRIACONTANE	21.191	549184	7.359 ug/ml
18)	N-TETRACONTANE	22.115	538506	8.130 ug/ml

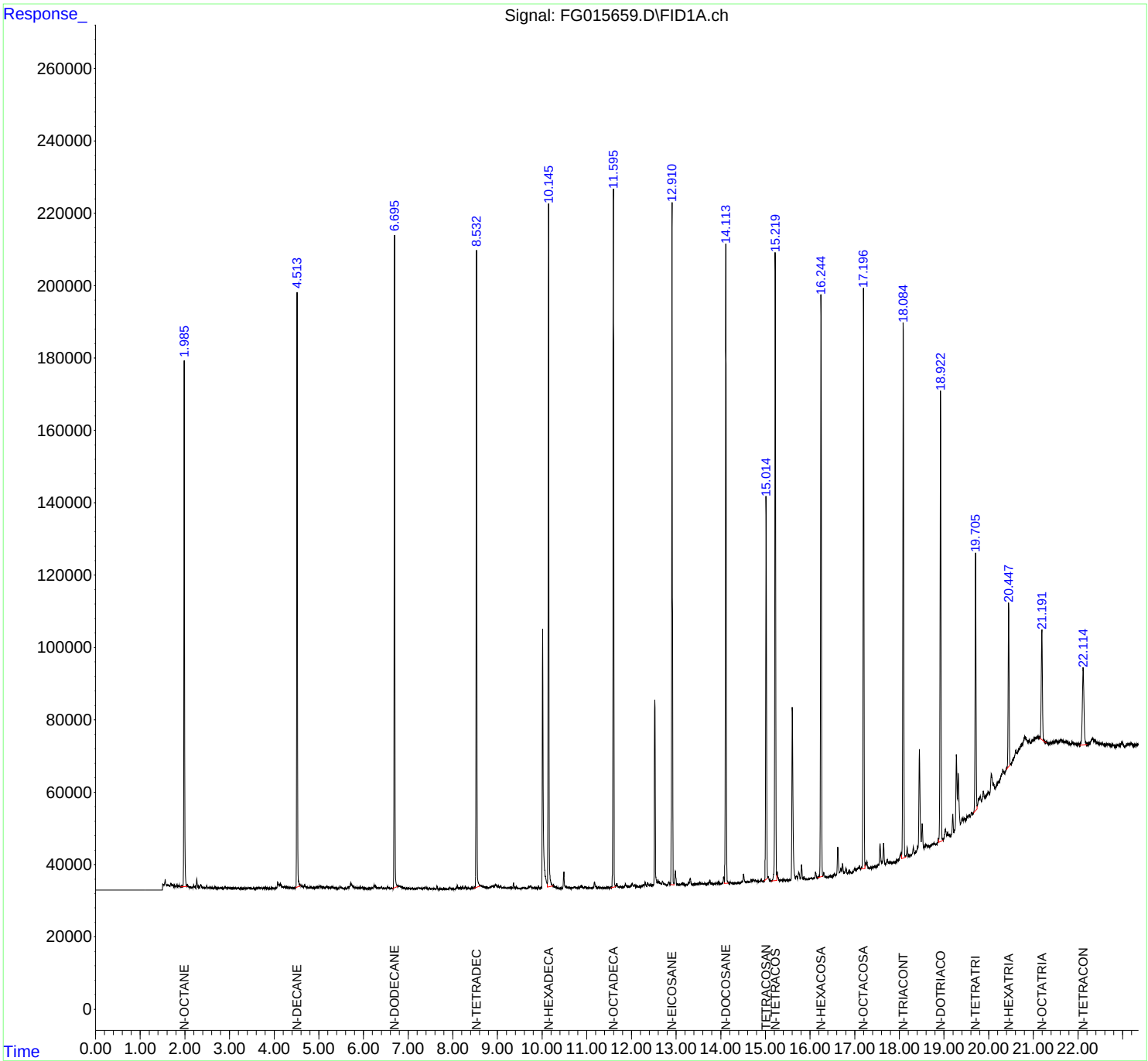
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015659.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:59
Operator : YP\AJ
Sample : Q1744-03MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02MS

Integration File: autoint1.e
Quant Time: Apr 09 00:30:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015659.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:59
Sample : Q1744-03MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.823	1.800	1.850	BV	625	6361	0.28%	0.013%
2	1.855	1.850	1.859	VV	124	605	0.03%	0.001%
3	1.875	1.859	1.901	VV	498	5406	0.24%	0.011%
4	1.926	1.901	1.953	PV	325	4786	0.21%	0.010%
5	1.985	1.953	2.054	VV	145221	1504283	65.99%	3.050%
6	2.062	2.054	2.108	VV	484	7786	0.34%	0.016%
7	2.116	2.108	2.134	VV	226	1798	0.08%	0.004%
8	2.141	2.134	2.148	VV	153	784	0.03%	0.002%
9	2.154	2.148	2.161	VV	159	784	0.03%	0.002%
10	2.164	2.161	2.177	VV	77	653	0.03%	0.001%
11	2.199	2.177	2.245	PV	557	8290	0.36%	0.017%
12	2.267	2.245	2.308	VV	2473	30717	1.35%	0.062%
13	2.312	2.308	2.320	VV	303	1406	0.06%	0.003%
14	2.323	2.320	2.336	VV	146	1442	0.06%	0.003%
15	2.356	2.336	2.408	VV	1028	17496	0.77%	0.035%
16	2.426	2.408	2.471	VV	218	3517	0.15%	0.007%
17	2.489	2.471	2.538	VV	633	9772	0.43%	0.020%
18	2.560	2.538	2.586	VV	219	3699	0.16%	0.008%
19	2.590	2.586	2.596	VV	196	680	0.03%	0.001%
20	2.601	2.596	2.605	VV	138	598	0.03%	0.001%
21	2.610	2.605	2.617	VV	175	721	0.03%	0.001%
22	2.621	2.617	2.652	VV	155	1624	0.07%	0.003%
23	2.675	2.652	2.702	PV	406	6172	0.27%	0.013%
24	2.703	2.702	2.713	VV	167	658	0.03%	0.001%
25	2.717	2.713	2.726	VV	162	616	0.03%	0.001%
26	2.751	2.726	2.759	VV	176	1762	0.08%	0.004%
27	2.764	2.759	2.777	VV	182	1335	0.06%	0.003%
28	2.781	2.777	2.796	VV	132	1242	0.05%	0.003%
29	2.802	2.796	2.833	VV	97	1167	0.05%	0.002%
30	2.840	2.833	2.849	VV	161	851	0.04%	0.002%
31	2.856	2.849	2.863	VV	113	649	0.03%	0.001%
32	2.885	2.863	2.890	VV	255	2410	0.11%	0.005%
33	2.900	2.890	2.908	VV	307	2628	0.12%	0.005%
34	2.910	2.908	2.924	VV	316	2062	0.09%	0.004%
35	2.930	2.924	2.935	VV	231	1230	0.05%	0.002%
36	2.939	2.935	2.963	VV	204	2982	0.13%	0.006%

rteres

37	2.973	2.963	2.998	VV	361	5043	0.22%	0.010%
38	3.002	2.998	3.015	VV	155	1207	0.05%	0.002%
39	3.019	3.015	3.037	VV	151	1294	0.06%	0.003%
40	3.041	3.037	3.047	VV	167	741	0.03%	0.002%
41	3.053	3.047	3.068	VV	223	1694	0.07%	0.003%
42	3.074	3.068	3.085	VV	218	1111	0.05%	0.002%
43	3.096	3.085	3.101	VV	187	934	0.04%	0.002%
44	3.106	3.101	3.117	VV	203	1408	0.06%	0.003%
45	3.125	3.117	3.142	VV	252	2526	0.11%	0.005%
46	3.145	3.142	3.157	VV	204	1117	0.05%	0.002%
47	3.162	3.157	3.167	VV	174	678	0.03%	0.001%
48	3.178	3.167	3.192	VV	188	2185	0.10%	0.004%
49	3.197	3.192	3.224	VV	162	2136	0.09%	0.004%
50	3.228	3.224	3.238	VV	107	638	0.03%	0.001%
51	3.250	3.238	3.305	VV	239	3480	0.15%	0.007%
52	3.332	3.305	3.338	PV	178	1383	0.06%	0.003%
53	3.360	3.338	3.371	VV	126	1890	0.08%	0.004%
54	3.388	3.371	3.394	VV	203	1895	0.08%	0.004%
55	3.413	3.394	3.444	VV	280	6359	0.28%	0.013%
56	3.461	3.444	3.477	VV	238	3153	0.14%	0.006%
57	3.481	3.477	3.496	VV	166	1533	0.07%	0.003%
58	3.505	3.496	3.517	VV	189	1306	0.06%	0.003%
59	3.531	3.517	3.577	VV	201	3985	0.17%	0.008%
60	3.582	3.577	3.589	VV	140	727	0.03%	0.001%
61	3.597	3.589	3.614	VV	156	1853	0.08%	0.004%
62	3.618	3.614	3.625	VV	208	1164	0.05%	0.002%
63	3.645	3.625	3.661	VV	320	4945	0.22%	0.010%
64	3.668	3.661	3.687	VV	213	2805	0.12%	0.006%
65	3.707	3.687	3.731	VV	291	5324	0.23%	0.011%
66	3.735	3.731	3.742	VV	187	874	0.04%	0.002%
67	3.751	3.742	3.768	VV	246	2126	0.09%	0.004%
68	3.782	3.768	3.792	VV	156	1567	0.07%	0.003%
69	3.815	3.792	3.843	VV	337	5495	0.24%	0.011%
70	3.846	3.843	3.854	VV	187	917	0.04%	0.002%
71	3.864	3.854	3.887	VV	188	1987	0.09%	0.004%
72	3.892	3.887	3.908	VV	167	1001	0.04%	0.002%
73	3.910	3.908	3.926	VV	152	963	0.04%	0.002%
74	3.938	3.926	3.957	VV	234	2676	0.12%	0.005%
75	3.966	3.957	3.975	VV	261	2143	0.09%	0.004%
76	3.978	3.975	3.984	VV	211	949	0.04%	0.002%
77	3.987	3.984	3.992	VV	164	679	0.03%	0.001%
78	3.997	3.992	4.001	VV	187	694	0.03%	0.001%
79	4.005	4.001	4.021	VV	123	1051	0.05%	0.002%
80	4.023	4.021	4.044	VV	204	1596	0.07%	0.003%
81	4.079	4.044	4.113	VV	1803	40720	1.79%	0.083%
82	4.129	4.113	4.191	VV	1250	42801	1.88%	0.087%
83	4.195	4.191	4.216	VV	575	7594	0.33%	0.015%
84	4.238	4.216	4.277	VV	625	17437	0.76%	0.035%
85	4.292	4.277	4.324	VV	508	10299	0.45%	0.021%
86	4.333	4.324	4.373	VV	410	9551	0.42%	0.019%
87	4.389	4.373	4.396	VV	344	3821	0.17%	0.008%
88	4.400	4.396	4.439	VV	291	6354	0.28%	0.013%
89	4.443	4.439	4.449	VV	246	1516	0.07%	0.003%

rteres

90	4.454	4.449	4.466	VV	303	2350	0.10%	0.005%
91	4.513	4.466	4.622	VV	164917	1803504	79.11%	3.657%
92	4.631	4.622	4.636	VV	810	6166	0.27%	0.013%
93	4.639	4.636	4.665	VV	777	10739	0.47%	0.022%
94	4.685	4.665	4.721	VV	1248	25086	1.10%	0.051%
95	4.727	4.721	4.742	VV	461	5323	0.23%	0.011%
96	4.747	4.742	4.754	VV	428	2634	0.12%	0.005%
97	4.766	4.754	4.769	VV	395	3107	0.14%	0.006%
98	4.772	4.769	4.784	VV	379	2609	0.11%	0.005%
99	4.798	4.784	4.814	VV	400	6070	0.27%	0.012%
100	4.819	4.814	4.849	VV	363	6380	0.28%	0.013%
101	4.861	4.849	4.871	VV	300	3670	0.16%	0.007%
102	4.887	4.871	4.895	VV	345	4245	0.19%	0.009%
103	4.898	4.895	4.902	VV	337	1138	0.05%	0.002%
104	4.911	4.902	4.932	VV	333	5242	0.23%	0.011%
105	4.943	4.932	4.954	VV	436	4555	0.20%	0.009%
106	4.957	4.954	4.962	VV	308	1676	0.07%	0.003%
107	4.977	4.962	4.993	VV	461	6955	0.31%	0.014%
108	5.029	4.993	5.062	VV	974	25640	1.12%	0.052%
109	5.067	5.062	5.085	VV	537	6545	0.29%	0.013%
110	5.099	5.085	5.117	VV	538	8595	0.38%	0.017%
111	5.121	5.117	5.154	VV	416	7711	0.34%	0.016%
112	5.177	5.154	5.208	VV	666	16114	0.71%	0.033%
113	5.222	5.208	5.231	VV	494	5802	0.25%	0.012%
114	5.237	5.231	5.254	VV	468	5824	0.26%	0.012%
115	5.270	5.254	5.286	VV	408	7213	0.32%	0.015%
116	5.309	5.286	5.332	VV	631	11563	0.51%	0.023%
117	5.339	5.332	5.390	VV	442	9432	0.41%	0.019%
118	5.397	5.390	5.426	VV	253	4199	0.18%	0.009%
119	5.432	5.426	5.454	VV	239	3199	0.14%	0.006%
120	5.473	5.454	5.509	VV	650	13665	0.60%	0.028%
121	5.511	5.509	5.527	VV	361	3394	0.15%	0.007%
122	5.533	5.527	5.543	VV	258	2080	0.09%	0.004%
123	5.550	5.543	5.570	VV	230	2781	0.12%	0.006%
124	5.572	5.570	5.576	VV	156	428	0.02%	0.001%
125	5.580	5.576	5.585	VV	147	683	0.03%	0.001%
126	5.595	5.585	5.613	VV	195	2163	0.09%	0.004%
127	5.617	5.613	5.622	VV	122	510	0.02%	0.001%
128	5.656	5.622	5.673	VV	741	11066	0.49%	0.022%
129	5.689	5.673	5.694	VV	713	6681	0.29%	0.014%
130	5.713	5.694	5.817	VV	1664	61278	2.69%	0.124%
131	5.821	5.817	5.835	VV	401	3651	0.16%	0.007%
132	5.853	5.835	5.880	VV	565	9934	0.44%	0.020%
133	5.887	5.880	5.904	VV	363	4307	0.19%	0.009%
134	5.925	5.904	5.937	VV	588	7927	0.35%	0.016%
135	5.950	5.937	5.965	VV	531	6959	0.31%	0.014%
136	5.980	5.965	5.993	VV	433	5878	0.26%	0.012%
137	6.008	5.993	6.024	VV	365	5199	0.23%	0.011%
138	6.031	6.024	6.059	VV	360	4838	0.21%	0.010%
139	6.062	6.059	6.112	VV	180	3710	0.16%	0.008%
140	6.116	6.112	6.121	VV	193	697	0.03%	0.001%
141	6.144	6.121	6.164	VV	335	5842	0.26%	0.012%

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142	6.203	6.164	6.213	VV	343	8267	0.36%	0.017%
143	6.237	6.213	6.267	VV	1124	23156	1.02%	0.047%
144	6.271	6.267	6.302	VV	705	10555	0.46%	0.021%
145	6.309	6.302	6.316	VV	350	2680	0.12%	0.005%
146	6.345	6.316	6.371	VV	391	9653	0.42%	0.020%
147	6.380	6.371	6.389	VV	382	3250	0.14%	0.007%
148	6.407	6.389	6.429	VV	585	9386	0.41%	0.019%
149	6.437	6.429	6.454	VV	228	2676	0.12%	0.005%
150	6.460	6.454	6.474	VV	259	2260	0.10%	0.005%
151	6.517	6.474	6.520	VV	282	5588	0.25%	0.011%
152	6.537	6.520	6.568	VV	709	12953	0.57%	0.026%
153	6.573	6.568	6.604	VV	309	5231	0.23%	0.011%
154	6.619	6.604	6.651	VV	322	6526	0.29%	0.013%
155	6.656	6.651	6.661	VV	176	886	0.04%	0.002%
156	6.696	6.661	6.780	VV	180337	1911130	83.83%	3.875%
157	6.790	6.780	6.799	VV	967	9702	0.43%	0.020%
158	6.802	6.799	6.834	VV	893	16610	0.73%	0.034%
159	6.848	6.834	6.897	VV	793	19976	0.88%	0.041%
160	6.904	6.897	6.926	VV	382	5748	0.25%	0.012%
161	6.929	6.926	6.942	VV	330	2531	0.11%	0.005%
162	6.947	6.942	6.959	VV	288	2676	0.12%	0.005%
163	6.963	6.959	6.970	VV	257	1622	0.07%	0.003%
164	6.978	6.970	7.004	VV	379	5076	0.22%	0.010%
165	7.013	7.004	7.017	VV	215	1259	0.06%	0.003%
166	7.026	7.017	7.058	VV	236	4299	0.19%	0.009%
167	7.063	7.058	7.072	VV	149	1184	0.05%	0.002%
168	7.079	7.072	7.089	VV	137	1164	0.05%	0.002%
169	7.094	7.089	7.097	VV	182	731	0.03%	0.001%
170	7.101	7.097	7.117	VV	218	1761	0.08%	0.004%
171	7.136	7.117	7.144	VV	155	1832	0.08%	0.004%
172	7.148	7.144	7.150	VV	172	581	0.03%	0.001%
173	7.157	7.150	7.170	VV	192	1656	0.07%	0.003%
174	7.177	7.170	7.188	VV	207	1468	0.06%	0.003%
175	7.217	7.188	7.257	VV	429	11794	0.52%	0.024%
176	7.275	7.257	7.285	VV	349	4640	0.20%	0.009%
177	7.290	7.285	7.307	VV	284	2532	0.11%	0.005%
178	7.312	7.307	7.316	VV	213	847	0.04%	0.002%
179	7.346	7.316	7.359	VV	322	6309	0.28%	0.013%
180	7.378	7.359	7.402	VV	578	9300	0.41%	0.019%
181	7.420	7.402	7.449	VV	434	5970	0.26%	0.012%
182	7.474	7.449	7.503	VV	302	4594	0.20%	0.009%
183	7.525	7.503	7.544	VV	214	2775	0.12%	0.006%
184	7.548	7.544	7.555	VV	148	844	0.04%	0.002%
185	7.560	7.555	7.572	VV	143	1018	0.04%	0.002%
186	7.589	7.572	7.606	VV	192	2500	0.11%	0.005%
187	7.616	7.606	7.620	VV	106	459	0.02%	0.001%
188	7.647	7.620	7.671	VV	947	11004	0.48%	0.022%
189	7.675	7.671	7.689	VV	105	799	0.04%	0.002%
190	7.709	7.689	7.742	VV	152	2167	0.10%	0.004%
191	7.762	7.742	7.769	PV	117	1005	0.04%	0.002%
192	7.772	7.769	7.779	VV	129	563	0.02%	0.001%
193	7.787	7.779	7.800	VV	180	1311	0.06%	0.003%
194	7.817	7.800	7.830	VV	158	2033	0.09%	0.004%

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195	7.832	7.830	7.855	VV	186	913	0.04%	0.002%
196	7.867	7.855	7.882	VV	107	899	0.04%	0.002%
197	7.907	7.882	7.914	PV	158	1910	0.08%	0.004%
198	7.930	7.914	7.973	VV	543	8390	0.37%	0.017%
199	7.989	7.973	8.001	VV	144	1887	0.08%	0.004%
200	8.015	8.001	8.036	VV	189	2153	0.09%	0.004%
201	8.080	8.036	8.086	VV	446	6735	0.30%	0.014%
202	8.103	8.086	8.127	VV	1009	14660	0.64%	0.030%
203	8.134	8.127	8.149	VV	434	4774	0.21%	0.010%
204	8.179	8.149	8.202	VV	462	10915	0.48%	0.022%
205	8.222	8.202	8.252	VV	892	13412	0.59%	0.027%
206	8.280	8.252	8.332	VV	923	15990	0.70%	0.032%
207	8.346	8.332	8.375	VV	368	6439	0.28%	0.013%
208	8.389	8.375	8.394	VV	218	1797	0.08%	0.004%
209	8.431	8.394	8.450	VV	449	10743	0.47%	0.022%
210	8.453	8.450	8.471	VV	443	3872	0.17%	0.008%
211	8.532	8.471	8.627	VV	176816	1989236	87.26%	4.034%
212	8.632	8.627	8.662	VV	901	17433	0.76%	0.035%
213	8.675	8.662	8.701	VV	741	15296	0.67%	0.031%
214	8.714	8.701	8.731	VV	607	9632	0.42%	0.020%
215	8.735	8.731	8.752	VV	523	5441	0.24%	0.011%
216	8.767	8.752	8.791	VV	477	9088	0.40%	0.018%
217	8.795	8.791	8.810	VV	344	3645	0.16%	0.007%
218	8.834	8.810	8.847	VV	603	10441	0.46%	0.021%
219	8.867	8.847	8.877	VV	788	11827	0.52%	0.024%
220	8.891	8.877	8.915	VV	905	17574	0.77%	0.036%
221	8.956	8.915	8.997	VV	1140	42422	1.86%	0.086%
222	9.018	8.997	9.048	VV	823	20942	0.92%	0.042%
223	9.073	9.048	9.112	VV	971	21483	0.94%	0.044%
224	9.126	9.112	9.135	VV	433	4844	0.21%	0.010%
225	9.147	9.135	9.153	VV	452	3887	0.17%	0.008%
226	9.157	9.153	9.171	VV	315	3067	0.13%	0.006%
227	9.187	9.171	9.193	VV	331	3558	0.16%	0.007%
228	9.198	9.193	9.210	VV	316	2636	0.12%	0.005%
229	9.218	9.210	9.239	VV	365	4774	0.21%	0.010%
230	9.279	9.239	9.305	VV	486	12697	0.56%	0.026%
231	9.310	9.305	9.328	VV	265	3024	0.13%	0.006%
232	9.332	9.328	9.336	VV	266	1204	0.05%	0.002%
233	9.362	9.336	9.386	VV	1694	22529	0.99%	0.046%
234	9.399	9.386	9.409	VV	437	5084	0.22%	0.010%
235	9.413	9.409	9.459	VV	413	7396	0.32%	0.015%
236	9.468	9.459	9.477	VV	184	1186	0.05%	0.002%
237	9.482	9.477	9.497	VV	127	1100	0.05%	0.002%
238	9.511	9.497	9.516	VV	132	991	0.04%	0.002%
239	9.554	9.516	9.559	VV	298	3817	0.17%	0.008%
240	9.570	9.559	9.574	VV	268	2062	0.09%	0.004%
241	9.581	9.574	9.625	VV	315	6323	0.28%	0.013%
242	9.643	9.625	9.665	VV	219	3836	0.17%	0.008%
243	9.668	9.665	9.675	VV	151	759	0.03%	0.002%
244	9.703	9.675	9.725	VV	804	14187	0.62%	0.029%
245	9.744	9.725	9.774	VV	755	14729	0.65%	0.030%
246	9.779	9.774	9.799	VV	360	3775	0.17%	0.008%

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247	9.814	9.799	9.818	VV	296	2609	0.11%	0.005%
248	9.823	9.818	9.857	VV	323	4483	0.20%	0.009%
249	9.868	9.857	9.890	VV	199	2941	0.13%	0.006%
250	9.895	9.890	9.907	VV	136	907	0.04%	0.002%
251	9.925	9.907	9.957	VV	858	9339	0.41%	0.019%
252	9.977	9.957	9.989	VV	459	5141	0.23%	0.010%
253	10.014	9.989	10.115	VV	71111	1093590	47.97%	2.218%
254	10.146	10.115	10.239	VV	188414	2152966	94.44%	4.366%
255	10.248	10.239	10.275	VV	919	15625	0.69%	0.032%
256	10.295	10.275	10.329	VV	545	14139	0.62%	0.029%
257	10.333	10.329	10.357	VV	279	3350	0.15%	0.007%
258	10.361	10.357	10.374	VV	216	1675	0.07%	0.003%
259	10.380	10.374	10.400	VV	179	1864	0.08%	0.004%
260	10.407	10.400	10.412	VV	169	963	0.04%	0.002%
261	10.417	10.412	10.424	VV	187	936	0.04%	0.002%
262	10.426	10.424	10.442	VV	153	1029	0.05%	0.002%
263	10.487	10.442	10.520	VV	4637	65487	2.87%	0.133%
264	10.531	10.520	10.558	VV	640	10091	0.44%	0.020%
265	10.581	10.558	10.619	VV	359	10045	0.44%	0.020%
266	10.630	10.619	10.652	VV	263	3495	0.15%	0.007%
267	10.664	10.652	10.697	VV	312	4507	0.20%	0.009%
268	10.716	10.697	10.725	VV	434	5425	0.24%	0.011%
269	10.728	10.725	10.747	VV	450	4004	0.18%	0.008%
270	10.752	10.747	10.756	VV	205	961	0.04%	0.002%
271	10.767	10.756	10.775	VV	294	2731	0.12%	0.006%
272	10.780	10.775	10.801	VV	243	3299	0.14%	0.007%
273	10.811	10.801	10.826	VV	330	3574	0.16%	0.007%
274	10.849	10.826	10.872	VV	461	9807	0.43%	0.020%
275	10.889	10.872	10.906	VV	885	10947	0.48%	0.022%
276	10.915	10.906	10.935	VV	316	4354	0.19%	0.009%
277	10.960	10.935	10.989	VV	436	9626	0.42%	0.020%
278	10.995	10.989	11.034	VV	233	5018	0.22%	0.010%
279	11.037	11.034	11.043	VV	251	971	0.04%	0.002%
280	11.050	11.043	11.060	VV	154	1473	0.06%	0.003%
281	11.072	11.060	11.099	VV	228	2938	0.13%	0.006%
282	11.116	11.099	11.135	VV	249	2839	0.12%	0.006%
283	11.174	11.135	11.256	PV	1775	38110	1.67%	0.077%
284	11.265	11.256	11.279	VV	231	2447	0.11%	0.005%
285	11.282	11.279	11.302	VV	191	1971	0.09%	0.004%
286	11.311	11.302	11.333	VV	199	3137	0.14%	0.006%
287	11.341	11.333	11.387	VV	218	3745	0.16%	0.008%
288	11.408	11.387	11.435	VV	283	4033	0.18%	0.008%
289	11.449	11.435	11.495	VV	307	5481	0.24%	0.011%
290	11.526	11.495	11.546	PV	318	4994	0.22%	0.010%
291	11.595	11.546	11.655	VV	192403	2250367	98.72%	4.563%
292	11.673	11.655	11.733	VV	1294	25928	1.14%	0.053%
293	11.749	11.733	11.766	VV	410	5527	0.24%	0.011%
294	11.789	11.766	11.813	VV	385	5778	0.25%	0.012%
295	11.864	11.813	11.934	PV	1162	32623	1.43%	0.066%
296	11.950	11.934	11.970	VV	387	5529	0.24%	0.011%
297	11.985	11.970	11.998	VV	560	6549	0.29%	0.013%
298	12.018	11.998	12.059	VV	1215	23758	1.04%	0.048%
299	12.078	12.059	12.094	VV	842	10186	0.45%	0.021%

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300	12.110	12.094	12.128	VV	321	4988	0.22%	0.010%
301	12.135	12.128	12.175	VV	282	3745	0.16%	0.008%
302	12.205	12.175	12.221	VV	241	3211	0.14%	0.007%
303	12.265	12.221	12.284	VV	686	14614	0.64%	0.030%
304	12.306	12.284	12.339	VV	1147	21250	0.93%	0.043%
305	12.365	12.339	12.405	VV	1096	25011	1.10%	0.051%
306	12.425	12.405	12.444	VV	648	10271	0.45%	0.021%
307	12.449	12.444	12.455	VV	293	1496	0.07%	0.003%
308	12.472	12.455	12.493	VV	633	9532	0.42%	0.019%
309	12.524	12.493	12.574	VV	51524	648197	28.43%	1.314%
310	12.592	12.574	12.608	VV	1822	28556	1.25%	0.058%
311	12.620	12.608	12.637	VV	1433	20680	0.91%	0.042%
312	12.648	12.637	12.670	VV	917	15798	0.69%	0.032%
313	12.696	12.670	12.720	VV	1359	28998	1.27%	0.059%
314	12.730	12.720	12.810	VV	778	24829	1.09%	0.050%
315	12.838	12.810	12.875	VV	1175	27555	1.21%	0.056%
316	12.910	12.875	12.954	VV	187994	2238999	98.22%	4.540%
317	12.985	12.954	13.039	VV	4159	77741	3.41%	0.158%
318	13.044	13.039	13.071	VV	278	4011	0.18%	0.008%
319	13.097	13.071	13.104	VV	283	4578	0.20%	0.009%
320	13.120	13.104	13.132	VV	418	6395	0.28%	0.013%
321	13.160	13.132	13.223	VV	566	17117	0.75%	0.035%
322	13.231	13.223	13.254	VV	198	2457	0.11%	0.005%
323	13.277	13.254	13.290	VV	708	10115	0.44%	0.021%
324	13.316	13.290	13.386	VV	1933	42158	1.85%	0.085%
325	13.404	13.386	13.432	VV	262	5426	0.24%	0.011%
326	13.439	13.432	13.455	VV	208	2461	0.11%	0.005%
327	13.470	13.455	13.493	VV	375	5741	0.25%	0.012%
328	13.524	13.493	13.545	VV	757	13264	0.58%	0.027%
329	13.548	13.545	13.555	VV	417	2086	0.09%	0.004%
330	13.559	13.555	13.571	VV	368	2876	0.13%	0.006%
331	13.579	13.571	13.624	VV	373	7633	0.33%	0.015%
332	13.650	13.624	13.671	VV	347	5951	0.26%	0.012%
333	13.678	13.671	13.685	VV	101	600	0.03%	0.001%
334	13.730	13.685	13.737	VV	423	7931	0.35%	0.016%
335	13.757	13.737	13.789	VV	1265	19579	0.86%	0.040%
336	13.802	13.789	13.845	VV	299	5014	0.22%	0.010%
337	13.868	13.845	13.880	VV	218	2880	0.13%	0.006%
338	13.887	13.880	13.910	VV	253	2804	0.12%	0.006%
339	13.954	13.910	14.000	VV	724	15412	0.68%	0.031%
340	14.004	14.000	14.008	VV	121	415	0.02%	0.001%
341	14.018	14.008	14.024	VV	147	1163	0.05%	0.002%
342	14.029	14.024	14.039	VV	220	1623	0.07%	0.003%
343	14.065	14.039	14.081	VV	1933	26120	1.15%	0.053%
344	14.113	14.081	14.175	VV	177104	2211501	97.01%	4.485%
345	14.182	14.175	14.194	VV	236	2581	0.11%	0.005%
346	14.221	14.194	14.256	VV	439	8993	0.39%	0.018%
347	14.261	14.256	14.300	VV	85	1087	0.05%	0.002%
348	14.304	14.300	14.307	PV	73	242	0.01%	0.000%
349	14.330	14.307	14.336	VV	191	2377	0.10%	0.005%
350	14.339	14.336	14.362	VV	170	1585	0.07%	0.003%
351	14.381	14.362	14.418	VV	176	3187	0.14%	0.006%

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352	14.424	14.418	14.445	VV	156	1437	0.06%	0.003%
353	14.451	14.445	14.455	VV	123	510	0.02%	0.001%
354	14.477	14.455	14.484	VV	406	4728	0.21%	0.010%
355	14.508	14.484	14.560	VV	2523	47171	2.07%	0.096%
356	14.605	14.560	14.652	VV	394	13413	0.59%	0.027%
357	14.676	14.652	14.697	VV	966	15233	0.67%	0.031%
358	14.710	14.697	14.724	VV	542	7731	0.34%	0.016%
359	14.740	14.724	14.763	VV	894	14268	0.63%	0.029%
360	14.777	14.763	14.800	VV	716	10945	0.48%	0.022%
361	14.805	14.800	14.830	VV	302	4126	0.18%	0.008%
362	14.838	14.830	14.857	VV	265	2461	0.11%	0.005%
363	14.874	14.857	14.880	VV	259	2316	0.10%	0.005%
364	14.901	14.880	14.929	VV	716	12677	0.56%	0.026%
365	14.943	14.929	14.949	VV	288	2721	0.12%	0.006%
366	14.955	14.949	14.963	VV	288	1806	0.08%	0.004%
367	14.965	14.963	14.969	VV	221	735	0.03%	0.001%
368	15.014	14.969	15.051	VV	105838	1358750	59.60%	2.755%
369	15.065	15.051	15.095	VV	1316	24654	1.08%	0.050%
370	15.100	15.095	15.130	VV	496	6591	0.29%	0.013%
371	15.133	15.130	15.141	VV	228	1092	0.05%	0.002%
372	15.219	15.141	15.254	VV	173488	2279644	100.00%	4.623%
373	15.265	15.254	15.300	VV	2618	41873	1.84%	0.085%
374	15.303	15.300	15.325	VV	430	4593	0.20%	0.009%
375	15.332	15.325	15.350	VV	216	2867	0.13%	0.006%
376	15.354	15.350	15.359	VV	224	933	0.04%	0.002%
377	15.376	15.359	15.396	VV	349	4773	0.21%	0.010%
378	15.413	15.396	15.452	VV	622	8406	0.37%	0.017%
379	15.462	15.452	15.485	VV	161	1729	0.08%	0.004%
380	15.489	15.485	15.499	VV	169	691	0.03%	0.001%
381	15.527	15.499	15.540	PV	214	2872	0.13%	0.006%
382	15.602	15.540	15.670	VV	47826	802078	35.18%	1.626%
383	15.695	15.670	15.714	VV	1235	24106	1.06%	0.049%
384	15.744	15.714	15.780	VV	2044	46939	2.06%	0.095%
385	15.809	15.780	15.845	VV	4073	62840	2.76%	0.127%
386	15.861	15.845	15.869	VV	631	5040	0.22%	0.010%
387	15.872	15.869	15.904	VV	454	5174	0.23%	0.010%
388	15.908	15.904	15.919	VV	130	792	0.03%	0.002%
389	15.923	15.919	15.929	VV	127	471	0.02%	0.001%
390	15.934	15.929	15.944	VV	96	355	0.02%	0.001%
391	15.957	15.944	15.962	PV	76	669	0.03%	0.001%
392	16.034	15.962	16.055	VV	343	10850	0.48%	0.022%
393	16.062	16.055	16.075	VV	168	1551	0.07%	0.003%
394	16.084	16.075	16.090	VV	137	972	0.04%	0.002%
395	16.121	16.090	16.174	VV	1795	34189	1.50%	0.069%
396	16.244	16.174	16.286	VV	159657	2166704	95.05%	4.394%
397	16.306	16.286	16.350	VV	1494	23721	1.04%	0.048%
398	16.355	16.350	16.363	VV	391	1049	0.05%	0.002%
399	16.372	16.363	16.397	VV	220	1797	0.08%	0.004%
400	16.444	16.397	16.475	PV	304	7093	0.31%	0.014%
401	16.497	16.475	16.515	VV	153	1947	0.09%	0.004%
402	16.540	16.515	16.553	VV	574	7820	0.34%	0.016%
403	16.556	16.553	16.564	VV	400	2239	0.10%	0.005%
404	16.567	16.564	16.589	VV	365	3122	0.14%	0.006%

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405	16.620	16.589	16.659	VV	7854	136448	5.99%	0.277%
406	16.690	16.659	16.707	VV	1651	33910	1.49%	0.069%
407	16.727	16.707	16.764	VV	2966	50631	2.22%	0.103%
408	16.765	16.764	16.777	VV	514	3596	0.16%	0.007%
409	16.801	16.777	16.838	VV	1707	27406	1.20%	0.056%
410	16.864	16.838	16.879	PV	424	5818	0.26%	0.012%
411	16.881	16.879	16.896	VV	563	2498	0.11%	0.005%
412	17.005	16.896	17.027	VV	843	21605	0.95%	0.044%
413	17.107	17.027	17.140	VV	1226	51900	2.28%	0.105%
414	17.196	17.140	17.230	VV	158463	2133310	93.58%	4.326%
415	17.243	17.230	17.257	VV	1851	24675	1.08%	0.050%
416	17.272	17.257	17.304	VV	2272	33674	1.48%	0.068%
417	17.350	17.304	17.355	VV	181	5950	0.26%	0.012%
418	17.364	17.355	17.373	VV	183	1117	0.05%	0.002%
419	17.401	17.373	17.407	PV	156	2108	0.09%	0.004%
420	17.433	17.407	17.449	VV	337	5512	0.24%	0.011%
421	17.453	17.449	17.458	VV	186	793	0.03%	0.002%
422	17.464	17.458	17.496	VV	188	3751	0.16%	0.008%
423	17.567	17.496	17.615	VV	6256	123421	5.41%	0.250%
424	17.646	17.615	17.687	VV	6047	96600	4.24%	0.196%
425	17.731	17.687	17.762	VV	1226	25791	1.13%	0.052%
426	17.797	17.762	17.834	VV	333	9140	0.40%	0.019%
427	17.880	17.834	17.895	VV	116	3109	0.14%	0.006%
428	18.041	17.895	18.051	PV	1777	50092	2.20%	0.102%
429	18.086	18.051	18.141	VV	147346	2045245	89.72%	4.147%
430	18.175	18.141	18.237	VV	2776	46419	2.04%	0.094%
431	18.312	18.237	18.342	PV	2167	36930	1.62%	0.075%
432	18.362	18.342	18.380	VV	378	6630	0.29%	0.013%
433	18.408	18.380	18.417	VV	1818	25056	1.10%	0.051%
434	18.448	18.417	18.488	VV	28202	509625	22.36%	1.033%
435	18.511	18.488	18.547	VV	7549	134150	5.88%	0.272%
436	18.578	18.547	18.594	VV	1049	24733	1.08%	0.050%
437	18.606	18.594	18.634	VV	1143	20250	0.89%	0.041%
438	18.641	18.634	18.685	VV	705	14582	0.64%	0.030%
439	18.719	18.685	18.730	VV	586	11409	0.50%	0.023%
440	18.776	18.730	18.792	VV	647	20006	0.88%	0.041%
441	18.807	18.792	18.840	VV	291	6308	0.28%	0.013%
442	18.874	18.840	18.882	PV	1381	19355	0.85%	0.039%
443	18.921	18.882	18.978	VV	124599	1737340	76.21%	3.523%
444	19.030	18.978	19.059	VV	2715	72209	3.17%	0.146%
445	19.079	19.059	19.100	VV	1404	26785	1.17%	0.054%
446	19.118	19.100	19.141	VV	779	12418	0.54%	0.025%
447	19.195	19.141	19.221	PV	5753	86199	3.78%	0.175%
448	19.277	19.221	19.300	VV	21494	397840	17.45%	0.807%
449	19.318	19.300	19.372	VV	15810	344765	15.12%	0.699%
450	19.411	19.372	19.432	VV	2708	81642	3.58%	0.166%
451	19.452	19.432	19.477	VV	2545	58669	2.57%	0.119%
452	19.515	19.477	19.530	VV	2624	62992	2.76%	0.128%
453	19.563	19.530	19.587	VV	2460	72805	3.19%	0.148%
454	19.612	19.587	19.634	VV	2827	64054	2.81%	0.130%
455	19.706	19.634	19.747	VV	73662	1201030	52.68%	2.435%
456	19.776	19.747	19.790	VV	5306	118734	5.21%	0.241%

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457	19.812	19.790	19.840	VV	5633	144408	6.33%	0.293%
458	19.880	19.840	19.909	VV	6487	208708	9.16%	0.423%
459	19.987	19.909	20.018	VV	5325	305590	13.41%	0.620%
460	20.059	20.018	20.097	VV	9700	342991	15.05%	0.696%
461	20.110	20.097	20.149	VV	6538	180731	7.93%	0.366%
462	20.317	20.149	20.360	VV	8693	855077	37.51%	1.734%
463	20.447	20.360	20.485	VV	53593	1270191	55.72%	2.576%
464	20.606	20.485	20.630	VV	11667	854860	37.50%	1.734%
465	20.802	20.630	20.878	VV	13610	1804349	79.15%	3.659%
466	20.913	20.878	20.939	VV	11753	418847	18.37%	0.849%
467	21.118	20.939	21.144	VV	11054	1362281	59.76%	2.762%
468	21.191	21.144	21.343	VV	39841	1604326	70.38%	3.253%
469	21.353	21.343	21.362	VV	7333	83099	3.65%	0.169%
470	21.429	21.362	21.459	VV	7051	409708	17.97%	0.831%
471	21.494	21.459	21.540	VV	6737	318312	13.96%	0.645%
472	21.560	21.540	21.570	VV	5973	108306	4.75%	0.220%
473	21.621	21.570	21.712	VV	6159	468752	20.56%	0.951%
474	21.742	21.712	21.841	VV	4614	306165	13.43%	0.621%
475	21.872	21.841	21.914	VV	3291	130071	5.71%	0.264%
476	21.926	21.914	21.982	VV	2526	90455	3.97%	0.183%
477	22.009	21.982	22.039	VV	1745	54605	2.40%	0.111%
478	22.116	22.039	22.200	VBA	21609	612202	26.86%	1.241%
			Sum of corrected areas:			49313685		

FG032725.M Wed Apr 09 01:00:30 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015660.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:29
Operator : YP\AJ
Sample : Q1744-03MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Integration File: autoint1.e
Quant Time: Apr 09 00:30:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.015	1290276	11.262 ug/ml
	Target Compounds			
1)	N-OCTANE	1.985	1472007	12.665 ug/ml
2)	N-DECANE	4.514	1725884	14.609 ug/ml
3)	N-DODECANE	6.695	1839542	15.149 ug/ml
4)	N-TETRADECANE	8.531	1899758	15.065 ug/ml
5)	N-HEXADECANE	10.146	2065474	16.042 ug/ml
6)	N-OCTADECANE	11.595	2186088	16.594 ug/ml
7)	N-EICOSANE	12.910	2171823	16.220 ug/ml
8)	N-DOCOSANE	14.112	2148215	16.532 ug/ml
10)	N-TETRACOSANE	15.219	2203087	17.009 ug/ml
11)	N-HEXACOSANE	16.243	2092627	16.442 ug/ml
12)	N-OCTACOSANE	17.197	2043462	16.347 ug/mlm
13)	N-TRIACONTANE	18.088	2013757	16.088 ug/ml
14)	N-DOTRIACONTANE	18.922	1746857	14.719 ug/ml
15)	N-TETRATRIACONTANE	19.705	1055803	10.115 ug/ml
16)	N-HEXATRIACONTANE	20.448	683943	7.804 ug/ml
17)	N-OCTATRIACONTANE	21.190	548815	7.354 ug/ml
18)	N-TETRACONTANE	22.115	519899	7.849 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

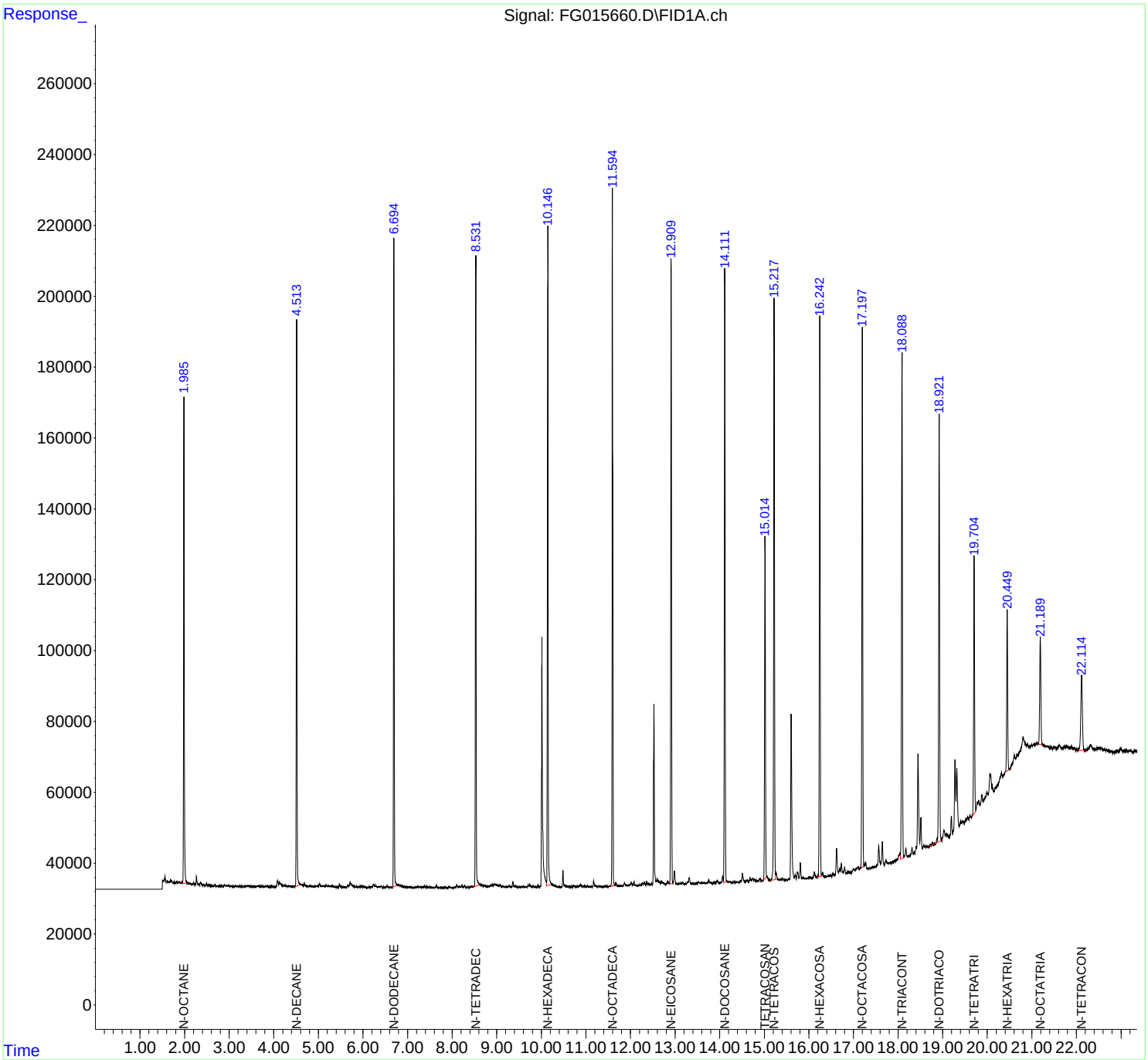
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG040825\
Data File : FG015660.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:29
Operator : YP\AJ
Sample : Q1744-03MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Apr 09 00:30:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Quant Title :
QLast Update : Thu Mar 27 11:04:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025



12

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04082
Data File : FG015660.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:29
Sample : Q1744-03MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG032725.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.823	1.800	1.857	BV	495	4906	0.22%	0.010%
2	1.877	1.857	1.903	PV	462	5614	0.25%	0.012%
3	1.925	1.903	1.931	PV	330	2753	0.12%	0.006%
4	1.936	1.931	1.954	VV	337	2435	0.11%	0.005%
5	1.985	1.954	2.072	VV	137559	1479897	66.64%	3.056%
6	2.075	2.072	2.110	VV	347	3984	0.18%	0.008%
7	2.113	2.110	2.151	VV	164	1983	0.09%	0.004%
8	2.157	2.151	2.163	VV	87	319	0.01%	0.001%
9	2.167	2.163	2.184	VV	127	802	0.04%	0.002%
10	2.200	2.184	2.251	PV	474	7488	0.34%	0.015%
11	2.266	2.251	2.302	VV	2375	27653	1.25%	0.057%
12	2.308	2.302	2.336	VV	209	2513	0.11%	0.005%
13	2.357	2.336	2.410	VV	941	15658	0.71%	0.032%
14	2.423	2.410	2.470	VV	230	3672	0.17%	0.008%
15	2.489	2.470	2.547	PV	671	10743	0.48%	0.022%
16	2.556	2.547	2.599	VV	251	3504	0.16%	0.007%
17	2.613	2.599	2.647	VV	160	1932	0.09%	0.004%
18	2.673	2.647	2.701	PV	294	5328	0.24%	0.011%
19	2.706	2.701	2.710	VV	81	431	0.02%	0.001%
20	2.715	2.710	2.732	VV	136	886	0.04%	0.002%
21	2.761	2.732	2.769	VV	187	2132	0.10%	0.004%
22	2.783	2.769	2.791	PV	297	2152	0.10%	0.004%
23	2.799	2.791	2.819	VV	167	1823	0.08%	0.004%
24	2.825	2.819	2.831	PV	147	628	0.03%	0.001%
25	2.847	2.831	2.857	VV	215	1855	0.08%	0.004%
26	2.861	2.857	2.870	VV	146	913	0.04%	0.002%
27	2.890	2.870	2.897	VV	326	3506	0.16%	0.007%
28	2.900	2.897	2.908	VV	278	1555	0.07%	0.003%
29	2.914	2.908	2.933	VV	261	3453	0.16%	0.007%
30	2.939	2.933	2.953	VV	287	2659	0.12%	0.005%
31	2.971	2.953	3.002	VV	375	7081	0.32%	0.015%
32	3.006	3.002	3.016	VV	253	1141	0.05%	0.002%
33	3.022	3.016	3.029	VV	169	866	0.04%	0.002%
34	3.066	3.029	3.076	VV	249	3986	0.18%	0.008%
35	3.082	3.076	3.091	PV	128	866	0.04%	0.002%
36	3.095	3.091	3.113	VV	192	1690	0.08%	0.003%

Instrument :
FID_G
ClientSampleId :
B-158-SB02MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/09/2025
Supervised By :mohammad ahmed 04/10/2025

					rteres			
37	3.126	3.113	3.164	VV	242	4856	0.22%	0.010%
38	3.172	3.164	3.230	VV	193	4442		
39	3.251	3.230	3.294	VV	204	4154		
40	3.303	3.294	3.315	VV	98	822		
41	3.329	3.315	3.336	VV	143	936		
42	3.355	3.336	3.365	VV	178	1958		
43	3.384	3.365	3.401	VV	216	3291	0.15%	0.007%
44	3.408	3.401	3.441	VV	222	5230	0.24%	0.011%
45	3.448	3.441	3.472	VV	186	3087	0.14%	0.006%
46	3.476	3.472	3.487	VV	181	1305	0.06%	0.003%
47	3.494	3.487	3.514	VV	186	1974	0.09%	0.004%
48	3.524	3.514	3.537	VV	158	1277	0.06%	0.003%
49	3.544	3.537	3.557	VV	139	1052	0.05%	0.002%
50	3.566	3.557	3.576	VV	147	1030	0.05%	0.002%
51	3.589	3.576	3.599	VV	134	1211	0.05%	0.003%
52	3.607	3.599	3.613	VV	150	979	0.04%	0.002%
53	3.647	3.613	3.691	VV	291	8788	0.40%	0.018%
54	3.707	3.691	3.732	VV	274	4411	0.20%	0.009%
55	3.742	3.732	3.797	VV	176	4805	0.22%	0.010%
56	3.813	3.797	3.865	VV	264	6394	0.29%	0.013%
57	3.874	3.865	3.920	VV	185	2877	0.13%	0.006%
58	3.942	3.920	3.957	VV	191	2531	0.11%	0.005%
59	3.967	3.957	4.042	VV	209	4762	0.21%	0.010%
60	4.081	4.042	4.112	VV	1820	37392	1.68%	0.077%
61	4.131	4.112	4.211	VV	1267	48176	2.17%	0.099%
62	4.237	4.211	4.274	VV	629	17124	0.77%	0.035%
63	4.287	4.274	4.320	VV	488	9881	0.44%	0.020%
64	4.341	4.320	4.414	VV	397	14452	0.65%	0.030%
65	4.418	4.414	4.427	VV	277	1821	0.08%	0.004%
66	4.433	4.427	4.450	VV	241	2863	0.13%	0.006%
67	4.458	4.450	4.476	VV	248	2968	0.13%	0.006%
68	4.514	4.476	4.624	VV	160361	1768085	79.61%	3.651%
69	4.633	4.624	4.656	VV	727	11110	0.50%	0.023%
70	4.685	4.656	4.756	VV	1254	33953	1.53%	0.070%
71	4.764	4.756	4.785	VV	311	5024	0.23%	0.010%
72	4.797	4.785	4.814	VV	398	5443	0.25%	0.011%
73	4.825	4.814	4.894	VV	416	12430	0.56%	0.026%
74	4.911	4.894	4.924	VV	297	4576	0.21%	0.009%
75	4.940	4.924	4.960	VV	392	6222	0.28%	0.013%
76	4.991	4.960	5.002	VV	411	7896	0.36%	0.016%
77	5.026	5.002	5.062	VV	909	20184	0.91%	0.042%
78	5.071	5.062	5.082	VV	432	4446	0.20%	0.009%
79	5.094	5.082	5.134	VV	424	11331	0.51%	0.023%
80	5.175	5.134	5.207	VV	586	17452	0.79%	0.036%
81	5.224	5.207	5.253	VV	474	10237	0.46%	0.021%
82	5.270	5.253	5.287	VV	371	7211	0.32%	0.015%
83	5.307	5.287	5.412	VV	580	19087	0.86%	0.039%
84	5.424	5.412	5.447	VV	221	2863	0.13%	0.006%
85	5.471	5.447	5.509	VV	603	13792	0.62%	0.028%
86	5.514	5.509	5.584	VV	342	7030	0.32%	0.015%
87	5.594	5.584	5.616	PV	95	1093	0.05%	0.002%
88	5.656	5.616	5.673	VV	651	9315	0.42%	0.019%
89	5.711	5.673	5.832	VV	1477	62431	2.81%	0.129%

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					rteres			
90	5.853	5.832	5.879	VV	413	7348	0.33%	0.015%
91	5.894	5.879	5.904	VV	222	2948		
92	5.926	5.904	5.939	VV	429	6061		
93	5.949	5.939	5.967	VV	477	5694		
94	5.979	5.967	5.997	VV	338	4810		
95	6.007	5.997	6.022	VV	263	3596		
96	6.034	6.022	6.089	VV	324	5478	0.25%	0.011%
97	6.135	6.089	6.159	PV	279	5487	0.25%	0.011%
98	6.176	6.159	6.192	VV	257	4051	0.18%	0.008%
99	6.236	6.192	6.261	VV	987	22582	1.02%	0.047%
100	6.268	6.261	6.326	VV	779	16716	0.75%	0.035%
101	6.336	6.326	6.349	VV	306	3600	0.16%	0.007%
102	6.359	6.349	6.368	VV	307	2727	0.12%	0.006%
103	6.406	6.368	6.456	VV	564	15418	0.69%	0.032%
104	6.462	6.456	6.475	VV	145	1670	0.08%	0.003%
105	6.506	6.475	6.519	VV	236	4821	0.22%	0.010%
106	6.537	6.519	6.611	VV	699	17416	0.78%	0.036%
107	6.619	6.611	6.664	VV	272	5111	0.23%	0.011%
108	6.695	6.664	6.781	VV	182138	1873758	84.37%	3.870%
109	6.794	6.781	6.832	VV	885	23548	1.06%	0.049%
110	6.846	6.832	6.936	VV	688	27126	1.22%	0.056%
111	6.943	6.936	6.959	VV	338	3746	0.17%	0.008%
112	6.970	6.959	7.022	VV	329	8655	0.39%	0.018%
113	7.030	7.022	7.039	VV	234	2035	0.09%	0.004%
114	7.053	7.039	7.087	VV	216	4884	0.22%	0.010%
115	7.097	7.087	7.126	VV	257	3225	0.15%	0.007%
116	7.156	7.126	7.190	VV	230	5160	0.23%	0.011%
117	7.216	7.190	7.229	VV	426	7275	0.33%	0.015%
118	7.237	7.229	7.259	VV	419	6042	0.27%	0.012%
119	7.277	7.259	7.303	VV	342	6623	0.30%	0.014%
120	7.333	7.303	7.359	VV	324	8516	0.38%	0.018%
121	7.377	7.359	7.402	VV	555	9947	0.45%	0.021%
122	7.417	7.402	7.462	VV	376	8689	0.39%	0.018%
123	7.476	7.462	7.509	VV	356	5538	0.25%	0.011%
124	7.526	7.509	7.572	VV	255	5777	0.26%	0.012%
125	7.589	7.572	7.612	VV	199	2770	0.12%	0.006%
126	7.647	7.612	7.699	VV	980	13994	0.63%	0.029%
127	7.714	7.699	7.724	PV	128	1269	0.06%	0.003%
128	7.732	7.724	7.751	VV	120	1119	0.05%	0.002%
129	7.774	7.751	7.805	VV	138	2969	0.13%	0.006%
130	7.827	7.805	7.841	VV	205	2374	0.11%	0.005%
131	7.849	7.841	7.867	VV	123	1075	0.05%	0.002%
132	7.874	7.867	7.884	PV	121	539	0.02%	0.001%
133	7.930	7.884	7.958	VV	546	8832	0.40%	0.018%
134	7.989	7.958	8.012	VV	206	3510	0.16%	0.007%
135	8.019	8.012	8.051	VV	121	1912	0.09%	0.004%
136	8.103	8.051	8.142	VV	978	22574	1.02%	0.047%
137	8.178	8.142	8.201	VV	436	11510	0.52%	0.024%
138	8.222	8.201	8.247	VV	857	12283	0.55%	0.025%
139	8.278	8.247	8.332	VV	777	15045	0.68%	0.031%
140	8.352	8.332	8.373	VV	315	4924	0.22%	0.010%
141	8.437	8.373	8.459	VV	438	12825	0.58%	0.026%

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142	8.466	8.459	8.474	VV	301	2566	0.12%	0.005%
143	8.531	8.474	8.666	VV	178047	1973063	88	
144	8.674	8.666	8.702	VV	697	13255		
145	8.716	8.702	8.806	VV	627	28434	1	
146	8.833	8.806	8.844	VV	473	9603		
147	8.894	8.844	8.921	VV	946	30920	1	
148	8.951	8.921	9.001	VV	1056	40028	1.80%	0.083%
149	9.009	9.001	9.053	VV	764	20669	0.93%	0.043%
150	9.072	9.053	9.109	VV	905	18671	0.84%	0.039%
151	9.125	9.109	9.135	VV	371	5260	0.24%	0.011%
152	9.146	9.135	9.199	VV	443	11573	0.52%	0.024%
153	9.223	9.199	9.249	VV	308	8019	0.36%	0.017%
154	9.280	9.249	9.319	VV	480	13409	0.60%	0.028%
155	9.362	9.319	9.387	VV	1636	25593	1.15%	0.053%
156	9.395	9.387	9.402	VV	444	3289	0.15%	0.007%
157	9.413	9.402	9.467	VV	408	10200	0.46%	0.021%
158	9.508	9.467	9.527	VV	206	4596	0.21%	0.009%
159	9.550	9.527	9.556	VV	318	3652	0.16%	0.008%
160	9.587	9.556	9.624	VV	300	9692	0.44%	0.020%
161	9.643	9.624	9.679	VV	282	5663	0.25%	0.012%
162	9.705	9.679	9.724	VV	738	12954	0.58%	0.027%
163	9.742	9.724	9.771	VV	693	14432	0.65%	0.030%
164	9.781	9.771	9.795	VV	355	4156	0.19%	0.009%
165	9.826	9.795	9.849	VV	346	7779	0.35%	0.016%
166	9.872	9.849	9.897	VV	227	4562	0.21%	0.009%
167	9.924	9.897	9.951	VV	865	10169	0.46%	0.021%
168	10.014	9.951	10.116	VV	70583	1081966	48.72%	2.234%
169	10.146	10.116	10.244	VV	185170	2117104	95.33%	4.372%
170	10.251	10.244	10.286	VV	910	17109	0.77%	0.035%
171	10.299	10.286	10.416	VV	563	20131	0.91%	0.042%
172	10.419	10.416	10.448	VV	149	1561	0.07%	0.003%
173	10.487	10.448	10.524	VV	4552	63042	2.84%	0.130%
174	10.532	10.524	10.559	VV	519	7743	0.35%	0.016%
175	10.586	10.559	10.613	VV	369	7813	0.35%	0.016%
176	10.622	10.613	10.647	VV	242	3225	0.15%	0.007%
177	10.664	10.647	10.690	VV	230	3401	0.15%	0.007%
178	10.718	10.690	10.754	PV	439	9731	0.44%	0.020%
179	10.766	10.754	10.799	VV	239	6049	0.27%	0.012%
180	10.816	10.799	10.831	VV	304	4180	0.19%	0.009%
181	10.846	10.831	10.872	VV	417	9108	0.41%	0.019%
182	10.887	10.872	10.909	VV	831	11050	0.50%	0.023%
183	10.923	10.909	10.938	VV	321	4132	0.19%	0.009%
184	10.961	10.938	10.988	VV	430	8146	0.37%	0.017%
185	10.995	10.988	11.017	VV	251	3190	0.14%	0.007%
186	11.032	11.017	11.092	VV	362	6759	0.30%	0.014%
187	11.110	11.092	11.141	VV	237	4027	0.18%	0.008%
188	11.174	11.141	11.248	VV	1744	36744	1.65%	0.076%
189	11.272	11.248	11.292	VV	242	4638	0.21%	0.010%
190	11.315	11.292	11.334	VV	237	4491	0.20%	0.009%
191	11.343	11.334	11.386	VV	208	3545	0.16%	0.007%
192	11.408	11.386	11.430	PV	264	4596	0.21%	0.009%
193	11.460	11.430	11.499	VV	303	6379	0.29%	0.013%
194	11.530	11.499	11.549	VV	284	5007	0.23%	0.010%

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195	11.595	11.549	11.653	VV	196918	2203410	99.21%	4.550%
196	11.672	11.653	11.732	VV	1237	24980	1	
197	11.751	11.732	11.774	VV	287	5256	0	
198	11.787	11.774	11.808	VV	320	4020	0	
199	11.863	11.808	11.926	PV	1037	30785	1	
200	11.948	11.926	11.964	VV	363	6391	0	
201	12.017	11.964	12.055	VV	1165	31243	1.41%	0.065%
202	12.077	12.055	12.097	VV	1236	16655	0.75%	0.034%
203	12.106	12.097	12.166	VV	344	8692	0.39%	0.018%
204	12.205	12.166	12.222	VV	225	3879	0.17%	0.008%
205	12.264	12.222	12.284	VV	667	15072	0.68%	0.031%
206	12.306	12.284	12.339	VV	997	20324	0.92%	0.042%
207	12.365	12.339	12.404	VV	1097	23601	1.06%	0.049%
208	12.423	12.404	12.449	VV	607	10259	0.46%	0.021%
209	12.474	12.449	12.494	VV	576	9895	0.45%	0.020%
210	12.524	12.494	12.572	VV	51365	623558	28.08%	1.288%
211	12.591	12.572	12.609	VV	1849	30377	1.37%	0.063%
212	12.619	12.609	12.671	VV	1452	35069	1.58%	0.072%
213	12.697	12.671	12.719	VV	1240	25699	1.16%	0.053%
214	12.732	12.719	12.790	VV	773	20359	0.92%	0.042%
215	12.835	12.790	12.873	VV	1107	28920	1.30%	0.060%
216	12.910	12.873	12.957	VV	176323	2188855	98.56%	4.520%
217	12.983	12.957	13.074	VV	3898	80224	3.61%	0.166%
218	13.161	13.074	13.205	VV	525	25443	1.15%	0.053%
219	13.234	13.205	13.245	VV	226	3536	0.16%	0.007%
220	13.276	13.245	13.289	VV	692	10252	0.46%	0.021%
221	13.316	13.289	13.387	VV	1802	39418	1.77%	0.081%
222	13.398	13.387	13.414	VV	186	2135	0.10%	0.004%
223	13.420	13.414	13.449	VV	162	2961	0.13%	0.006%
224	13.467	13.449	13.487	VV	324	4664	0.21%	0.010%
225	13.524	13.487	13.564	VV	651	16910	0.76%	0.035%
226	13.594	13.564	13.619	VV	366	8944	0.40%	0.018%
227	13.650	13.619	13.670	VV	365	6829	0.31%	0.014%
228	13.699	13.670	13.721	VV	325	5977	0.27%	0.012%
229	13.755	13.721	13.788	VV	1214	22284	1.00%	0.046%
230	13.804	13.788	13.827	VV	289	5030	0.23%	0.010%
231	13.878	13.827	13.891	VV	302	5421	0.24%	0.011%
232	13.951	13.891	14.006	VV	707	21857	0.98%	0.045%
233	14.064	14.006	14.079	VV	2017	30956	1.39%	0.064%
234	14.112	14.079	14.203	VV	173343	2167266	97.59%	4.476%
235	14.222	14.203	14.287	VV	503	10676	0.48%	0.022%
236	14.327	14.287	14.352	PV	224	5098	0.23%	0.011%
237	14.397	14.352	14.430	VV	174	5349	0.24%	0.011%
238	14.473	14.430	14.482	VV	414	5856	0.26%	0.012%
239	14.509	14.482	14.572	VV	2416	49063	2.21%	0.101%
240	14.611	14.572	14.651	VV	403	12804	0.58%	0.026%
241	14.677	14.651	14.696	VV	933	15275	0.69%	0.032%
242	14.707	14.696	14.716	VV	540	6302	0.28%	0.013%
243	14.738	14.716	14.761	VV	1028	18162	0.82%	0.038%
244	14.777	14.761	14.829	VV	665	16000	0.72%	0.033%
245	14.838	14.829	14.859	VV	250	3626	0.16%	0.007%
246	14.902	14.859	14.943	VV	685	17938	0.81%	0.037%

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247	14.956	14.943	14.976	VV	250	4163	0.19%	0.009%
248	15.015	14.976	15.051	VV	96984	1322033	59	
249	15.064	15.051	15.094	VV	1384	24820	1	
250	15.102	15.094	15.142	VV	462	8455	0	
251	15.219	15.142	15.252	VV	163250	2220892	100	
252	15.264	15.252	15.344	VV	2572	48800	2	
253	15.372	15.344	15.392	VV	380	6396	0.29%	0.013%
254	15.412	15.392	15.456	VV	594	8044	0.36%	0.017%
255	15.488	15.456	15.499	PV	114	1610	0.07%	0.003%
256	15.541	15.499	15.567	VV	418	4408	0.20%	0.009%
257	15.601	15.567	15.676	VV	46741	781025	35.17%	1.613%
258	15.696	15.676	15.719	VV	1294	22184	1.00%	0.046%
259	15.743	15.719	15.778	VV	2023	43798	1.97%	0.090%
260	15.808	15.778	15.843	VV	4683	68286	3.07%	0.141%
261	15.869	15.843	15.946	VV	413	13721	0.62%	0.028%
262	15.994	15.946	16.008	PV	281	5397	0.24%	0.011%
263	16.033	16.008	16.072	VV	271	7734	0.35%	0.016%
264	16.122	16.072	16.175	VV	1785	35505	1.60%	0.073%
265	16.243	16.175	16.287	VV	155041	2113217	95.15%	4.364%
266	16.306	16.287	16.361	VV	1454	24078	1.08%	0.050%
267	16.373	16.361	16.400	VV	231	2807	0.13%	0.006%
268	16.437	16.400	16.467	PV	310	6728	0.30%	0.014%
269	16.539	16.467	16.587	VV	581	19034	0.86%	0.039%
270	16.620	16.587	16.664	VV	7679	138123	6.22%	0.285%
271	16.691	16.664	16.707	VV	1633	32731	1.47%	0.068%
272	16.728	16.707	16.773	VV	3069	56015	2.52%	0.116%
273	16.801	16.773	16.847	VV	1853	31789	1.43%	0.066%
274	16.866	16.847	16.911	VV	483	9636	0.43%	0.020%
275	16.926	16.911	16.939	VV	165	1594	0.07%	0.003%
276	16.995	16.939	17.033	PV	966	25792	1.16%	0.053%
277	17.104	17.033	17.142	VV	1148	48748	2.19%	0.101%
278	17.197	17.142	17.232	VV	153241	2083301	93.80%	4.302%
279	17.244	17.232	17.257	VV	1623	21371	0.96%	0.044%
280	17.274	17.257	17.305	VV	2105	31582	1.42%	0.065%
281	17.317	17.305	17.334	VV	296	3305	0.15%	0.007%
282	17.346	17.334	17.364	VV	150	1712	0.08%	0.004%
283	17.437	17.364	17.452	PV	301	4830	0.22%	0.010%
284	17.481	17.452	17.499	VV	197	3031	0.14%	0.006%
285	17.566	17.499	17.611	VV	5781	114604	5.16%	0.237%
286	17.646	17.611	17.691	VV	6628	107339	4.83%	0.222%
287	17.730	17.691	17.762	VV	1189	26010	1.17%	0.054%
288	17.770	17.762	17.787	VV	388	3992	0.18%	0.008%
289	17.801	17.787	17.837	VV	320	5660	0.25%	0.012%
290	18.042	17.837	18.052	PV	1873	60522	2.73%	0.125%
291	18.088	18.052	18.142	VV	143237	2022134	91.05%	4.176%
292	18.174	18.142	18.234	VV	2638	45107	2.03%	0.093%
293	18.312	18.234	18.337	PV	2058	32512	1.46%	0.067%
294	18.364	18.337	18.379	PV	313	4211	0.19%	0.009%
295	18.406	18.379	18.419	VV	1906	25651	1.15%	0.053%
296	18.447	18.419	18.486	VV	27489	486268	21.90%	1.004%
297	18.510	18.486	18.549	VV	9457	159206	7.17%	0.329%
298	18.575	18.549	18.592	VV	1112	21504	0.97%	0.044%
299	18.605	18.592	18.622	VV	837	13125	0.59%	0.027%

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300	18.640	18.622	18.672	VV	517	11631	0.52%	0.024%
301	18.721	18.672	18.737	VV	489	10491		
302	18.765	18.737	18.794	VV	651	16734		
303	18.811	18.794	18.836	VV	374	6096		
304	18.921	18.836	18.979	PV	120984	1758539	7	
305	19.028	18.979	19.057	VV	2632	68379		
306	19.077	19.057	19.100	VV	1313	25456	1.15%	0.053%
307	19.113	19.100	19.141	VV	706	9277	0.42%	0.019%
308	19.194	19.141	19.221	PV	5403	80773	3.64%	0.167%
309	19.276	19.221	19.298	VV	20695	368170	16.58%	0.760%
310	19.318	19.298	19.369	VV	17955	368907	16.61%	0.762%
311	19.410	19.369	19.430	VV	2296	68102	3.07%	0.141%
312	19.451	19.430	19.477	VV	2128	49604	2.23%	0.102%
313	19.515	19.477	19.533	VV	2068	52180	2.35%	0.108%
314	19.561	19.533	19.586	VV	2277	58543	2.64%	0.121%
315	19.613	19.586	19.636	VV	2403	54835	2.47%	0.113%
316	19.705	19.636	19.746	VV	73795	1181691	53.21%	2.440%
317	19.775	19.746	19.794	VV	4797	116994	5.27%	0.242%
318	19.811	19.794	19.840	VV	4859	115674	5.21%	0.239%
319	19.879	19.840	19.907	VV	5900	185457	8.35%	0.383%
320	19.990	19.907	20.023	VV	5840	331701	14.94%	0.685%
321	20.061	20.023	20.149	VV	10225	545270	24.55%	1.126%
322	20.319	20.149	20.342	VV	8596	750002	33.77%	1.549%
323	20.448	20.342	20.504	VV	53295	1460479	65.76%	3.016%
324	20.608	20.504	20.631	VV	11311	729138	32.83%	1.506%
325	20.678	20.631	20.692	VV	10829	391714	17.64%	0.809%
326	20.804	20.692	20.892	VV	14986	1493661	67.26%	3.085%
327	20.904	20.892	20.941	VV	11871	332328	14.96%	0.686%
328	21.002	20.941	21.012	VV	11047	465207	20.95%	0.961%
329	21.054	21.012	21.068	VV	10784	364994	16.43%	0.754%
330	21.123	21.068	21.146	VV	10512	485300	21.85%	1.002%
331	21.190	21.146	21.336	VV	39976	1581591	71.21%	3.266%
332	21.358	21.336	21.419	VV	7888	372746	16.78%	0.770%
333	21.429	21.419	21.469	VV	6897	200569	9.03%	0.414%
334	21.504	21.469	21.554	VV	6603	316447	14.25%	0.654%
335	21.622	21.554	21.687	VV	6028	434222	19.55%	0.897%
336	21.783	21.687	21.837	VV	4493	391148	17.61%	0.808%
337	21.873	21.837	21.921	VV	3407	159808	7.20%	0.330%
338	21.949	21.921	22.011	VV	2658	119507	5.38%	0.247%
339	22.116	22.011	22.191	VV	21726	602333	27.12%	1.244%
			Sum of corrected areas:			48423326		

FG032725.M Wed Apr 09 01:01:09 2025

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

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q1744-03MSD		FG015660.D	FG040825	N-OCTACOSANE	mohammad	4/10/2025 5:30:17 AM	Peak Integrated by Software incorrectly

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG032725

Review By	yogesh	Review On	3/27/2025 11:57:36 AM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:35 AM		
SubDirectory	FG032725	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015562.D	27 Mar 2025 07:58	YP\AJ	Ok
2	I.BLK	FG015563.D	27 Mar 2025 08:27	YP\AJ	Ok
3	100 TRPH STD	FG015564.D	27 Mar 2025 08:56	YP\AJ	Ok
4	50 TRPH STD	FG015565.D	27 Mar 2025 09:26	YP\AJ	Ok
5	20 TRPH STD	FG015566.D	27 Mar 2025 09:55	YP\AJ	Ok
6	10 TRPH STD	FG015567.D	27 Mar 2025 10:24	YP\AJ	Ok
7	5 TRPH STD	FG015568.D	27 Mar 2025 10:54	YP\AJ	Ok
8	FG032725ICV	FG015569.D	27 Mar 2025 11:23	YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG040825

Review By	yogesh	Review On	4/8/2025 3:01:54 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:30:17 AM		
SubDirectory	FG040825	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015649.D	08 Apr 2025 09:32	YP\AJ	Ok
2	I.BLK	FG015650.D	08 Apr 2025 10:01	YP\AJ	Ok
3	50 PPM TRPH STD	FG015651.D	08 Apr 2025 11:13	YP\AJ	Ok
4	RT MARKER	FG015652.D	08 Apr 2025 11:44	YP\AJ	Ok
5	PB167510BL	FG015653.D	08 Apr 2025 12:50	YP\AJ	Ok
6	PB167510BS	FG015654.D	08 Apr 2025 13:20	YP\AJ	Ok
7	Q1744-01	FG015655.D	08 Apr 2025 14:02	YP\AJ	Ok
8	Q1744-03	FG015656.D	08 Apr 2025 14:31	YP\AJ	Ok
9	Q1746-01	FG015657.D	08 Apr 2025 15:01	YP\AJ	Ok
10	Q1746-03	FG015658.D	08 Apr 2025 15:30	YP\AJ	Ok
11	Q1744-03MS	FG015659.D	08 Apr 2025 15:59	YP\AJ	Ok
12	Q1744-03MSD	FG015660.D	08 Apr 2025 16:29	YP\AJ	Ok,M
13	I.BLK	FG015661.D	08 Apr 2025 16:58	YP\AJ	Ok
14	50 PPM TRPH STD	FG015662.D	08 Apr 2025 17:57	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG032725

Review By	yogesh	Review On	3/27/2025 11:57:36 AM		
Supervise By	mohammad	Supervise On	3/31/2025 1:17:35 AM		
SubDirectory	FG032725	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015562.D	27 Mar 2025 07:58		YP\AJ	Ok
2	I.BLK		FG015563.D	27 Mar 2025 08:27		YP\AJ	Ok
3	100 TRPH STD		FG015564.D	27 Mar 2025 08:56		YP\AJ	Ok
4	50 TRPH STD		FG015565.D	27 Mar 2025 09:26		YP\AJ	Ok
5	20 TRPH STD		FG015566.D	27 Mar 2025 09:55		YP\AJ	Ok
6	10 TRPH STD		FG015567.D	27 Mar 2025 10:24		YP\AJ	Ok
7	5 TRPH STD		FG015568.D	27 Mar 2025 10:54		YP\AJ	Ok
8	FG032725ICV		FG015569.D	27 Mar 2025 11:23		YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG040825

Review By	yogesh	Review On	4/8/2025 3:01:54 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:30:17 AM		
SubDirectory	FG040825	HP Acquire Method		HP Processing Method	FG032725

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015649.D	08 Apr 2025 09:32		YP\AJ	Ok
2	I.BLK		FG015650.D	08 Apr 2025 10:01		YP\AJ	Ok
3	50 PPM TRPH STD		FG015651.D	08 Apr 2025 11:13		YP\AJ	Ok
4	RT MARKER		FG015652.D	08 Apr 2025 11:44		YP\AJ	Ok
5	PB167510BL		FG015653.D	08 Apr 2025 12:50		YP\AJ	Ok
6	PB167510BS		FG015654.D	08 Apr 2025 13:20		YP\AJ	Ok
7	Q1744-01		FG015655.D	08 Apr 2025 14:02		YP\AJ	Ok
8	Q1744-03		FG015656.D	08 Apr 2025 14:31		YP\AJ	Ok
9	Q1746-01		FG015657.D	08 Apr 2025 15:01		YP\AJ	Ok
10	Q1746-03		FG015658.D	08 Apr 2025 15:30		YP\AJ	Ok
11	Q1744-03MS		FG015659.D	08 Apr 2025 15:59		YP\AJ	Ok
12	Q1744-03MSD		FG015660.D	08 Apr 2025 16:29		YP\AJ	Ok,M
13	I.BLK		FG015661.D	08 Apr 2025 16:58		YP\AJ	Ok
14	50 PPM TRPH STD		FG015662.D	08 Apr 2025 17:57		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167510

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/08/2025
Matrix :	Solid			**Extraction Start Time :**	08:55
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/08/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:50
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	20 PPM	PP24162
Surrogate	1.0ML	20 PPM	PP24180
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	EP2600
Baked Na2SO4	N/A	EP2599
Sand	N/A	E2865
Methylene Chloride	N/A	E3904
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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
04/08/25	RP (Ext. Lab)	Y.P. Peptides
11:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167510

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167510BL	PB167510BL	TPH GC	30.01	N/A	ritesh	Evelyn	1			U3-1
PB167510BS	PB167510BS	TPH GC	30.03	N/A	ritesh	Evelyn	1			2
Q1744-01	B-158-SB01	TPH GC	30.05	N/A	ritesh	Evelyn	1	E		3
Q1744-03	B-158-SB02	TPH GC	30.06	N/A	ritesh	Evelyn	1	E		4
Q1744-03MS	B-158-SB02MS	TPH GC	30.02	N/A	ritesh	Evelyn	1	E		5
Q1744-03MSD	B-158-SB02MSD	TPH GC	30.09	N/A	ritesh	Evelyn	1	E		6
Q1746-01	B-149-SB01	TPH GC	30.08	N/A	ritesh	Evelyn	1	E		U2-1
Q1746-03	B-149-SB02	TPH GC	30.03	N/A	ritesh	Evelyn	1	F		2

* **Extracts relinquished on the same date as received.**

4/8/25

8:55
16TT10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1746 **WorkList ID :** 188792 **Department :** Extraction **Date :** 04-08-2025 08:15:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1744-01	B-158-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/05/2025	8015D
Q1744-03	B-158-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/05/2025	8015D
Q1746-01	B-149-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/05/2025	8015D
Q1746-03	B-149-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L41	04/06/2025	8015D

787 of 1167

Date/Time 04/08/25 8:50
Raw Sample Received by: RJ (Ref 104)
Raw Sample Relinquished by: CP SR

Date/Time 04/08/25 9:10
Raw Sample Received by: CP SR
Raw Sample Relinquished by: RJ (Ref 104)

Q1744

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

LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/09/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/09/25	

SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/10/25 23:28	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	J	1	0.16	1.11	mg/kg	FC068563.D
Aliphatic C12-C16	Aliphatic C12-C16	1.61		1	0.12	0.74	mg/kg	FC068563.D
Aliphatic C16-C21	Aliphatic C16-C21	0.88	J	1	0.14	1.11	mg/kg	FC068563.D
Aliphatic C21-C28	Aliphatic C21-C28	0.59	U	1	0.59	1.48	mg/kg	FC068563.D
Aliphatic C28-C40	Aliphatic C28-C40	1.92	J	1	1.31	2.22	mg/kg	FC068563.D
Aromatic C10-C12	Aromatic C10-C12	0.45	J	1	0.13	0.74	mg/kg	FD049272.D
Aromatic C12-C16	Aromatic C12-C16	0.46	J	1	0.26	1.11	mg/kg	FD049272.D
Aromatic C16-C21	Aromatic C16-C21	3.47		1	0.44	1.85	mg/kg	FD049272.D
Aromatic C21-C36	Aromatic C21-C36	2.24	J	1	1.32	2.96	mg/kg	FD049272.D
Total AliphaticEPH	Total AliphaticEPH	4.79	J		2.32	6.66	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.62	J		2.15	6.66	mg/kg	
Total EPH	Total EPH	11.4	J		4.47	13.3	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068563.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.38	J	0.16	1.11	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.61		0.12	0.74	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.88	J	0.14	1.11	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.59	U	0.59	1.48	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.92	J	1.31	2.22	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		48.0		40 - 140	96%	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:	Q1744-01	Acq On:	10 Apr 2025 23:28
Client Sample ID:	B-158-SB01	Operator:	YP/AJ
Data file:	FC068563.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	535805	5.089	300	ug/ml
Aliphatic C12-C16	6.645	10.043	2225498	21.75	200	ug/ml
Aliphatic C16-C21	10.044	13.409	1178768	11.929	300	ug/ml
Aliphatic C21-C28	13.410	17.073	698305	7.414	400	ug/ml
Aliphatic C28-C40	17.074	22.075	2332696	25.953	600	ug/ml
Aliphatic EPH	3.345	22.075	6971072	72.135		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	4456429	47.97		ug/ml
Aliphatic C9-C28	3.345	17.073	4638376	46.182	1200	ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049272.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.45	J	0.13	0.74	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.46	J	0.26	1.11	mg/kg
Aromatic C16-C21	Aromatic C16-C21	3.47		0.44	1.85	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.24	J	1.32	2.96	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	36.5		40 - 140	73%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	31.6		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.1		40 - 140	82%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1744-01	Acq On:	10 Apr 2025 16:38
Client Sample ID:	B-158-SB01	Operator:	YP/AJ
Data file:	FD049272.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	4.440	6.185	950821	6.064	200	ug/ml
Aromatic C12-C16	6.186	8.813	1061990	6.239	300	ug/ml
Aromatic C16-C21	8.814	13.102	7865902	46.904	500	ug/ml
Aromatic C21-C36	13.103	18.519	4183363	30.283	800	ug/ml
Aromatic EPH	4.440	18.519	14062076	89.491		ug/ml
2-Bromonaphthalene (SURR)	7.749	7.749	5408441	36.51		ug/ml
2-Flurobiphenyl (SURR)	8.614	8.614	3221957	31.59		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	7248338	41.14		ug/ml

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	56
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
04/08/25 10:10	04/11/25 0:05	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.51	J	1	0.25	1.78	mg/kg	FC068564.D
Aliphatic C12-C16	Aliphatic C12-C16	2.96		1	0.20	1.19	mg/kg	FC068564.D
Aliphatic C16-C21	Aliphatic C16-C21	1.32	J	1	0.23	1.78	mg/kg	FC068564.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	1	0.95	2.38	mg/kg	FC068564.D
Aliphatic C28-C40	Aliphatic C28-C40	2.60	J	1	2.10	3.57	mg/kg	FC068564.D
Aromatic C10-C12	Aromatic C10-C12	0.70	J	1	0.21	1.19	mg/kg	FD049273.D
Aromatic C12-C16	Aromatic C12-C16	0.69	J	1	0.41	1.78	mg/kg	FD049273.D
Aromatic C16-C21	Aromatic C16-C21	4.67		1	0.71	2.97	mg/kg	FD049273.D
Aromatic C21-C36	Aromatic C21-C36	3.40	J	1	2.12	4.75	mg/kg	FD049273.D
Total AliphaticEPH	Total AliphaticEPH	7.39	J		3.72	10.7	mg/kg	
Total AromaticEPH	Total AromaticEPH	9.46	J		3.46	10.7	mg/kg	
Total EPH	Total EPH	16.8	J		7.18	21.4	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:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	56
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
FC068564.D	1	04/08/25	04/11/25	PB167513

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.51	J	0.25	1.78	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		2.96		0.20	1.19	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		1.32	J	0.23	1.78	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.95	U	0.95	2.38	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.60	J	2.10	3.57	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		31.5		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1744-03	Acq On:	11 Apr 2025 00:05
Client Sample ID:	B-158-SB02	Operator:	YP/AJ
Data file:	FC068564.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	451147	4.285	300	ug/ml
Aliphatic C12-C16	6.645	10.043	2545930	24.881	200	ug/ml
Aliphatic C16-C21	10.044	13.409	1097643	11.108	300	ug/ml
Aliphatic C21-C28	13.410	17.073	427193	4.536	400	ug/ml
Aliphatic C28-C40	17.074	22.075	1965755	21.87	600	ug/ml
Aliphatic EPH	3.345	22.075	6487668	66.68		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.144	13.144	2927619	31.52		ug/ml
Aliphatic C9-C28	3.345	17.073	4521913	44.81	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	56
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
FD049273.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.70	J	0.21	1.19	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.69	J	0.41	1.78	mg/kg
Aromatic C16-C21	Aromatic C16-C21	4.67		0.71	2.97	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.40	J	2.12	4.75	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	35.0		40 - 140	70%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	30.2		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.0		40 - 140	58%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1744-03	Acq On:	10 Apr 2025 17:15
Client Sample ID:	B-158-SB02	Operator:	YP/AJ
Data file:	FD049273.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	4.440	6.185	918172	5.856	200	ug/ml
Aromatic C12-C16	6.186	8.813	987403	5.801	300	ug/ml
Aromatic C16-C21	8.814	13.102	6590060	39.296	500	ug/ml
Aromatic C21-C36	13.103	18.519	3952627	28.613	800	ug/ml
Aromatic EPH	4.440	18.519	12448262	79.566		ug/ml
2-Bromonaphthalene (SURR)	7.749	7.749	5186623	35.01		ug/ml
2-Flurobiphenyl (SURR)	8.615	8.615	3081793	30.21		ug/ml
ortho-Terphenyl (SURR)	11.657	11.657	5112481	29.02		ug/ml

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Run Number: FC041125AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB167513BL	72			0
PB167513BS	75			0
PB167513BSD	73			0
B-158-SB01	96			0
B-158-SB02	63			0
B-149-SB01MS	80			0
B-149-SB01MSD	81			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.: Q1744 SAS No.: Q1744 SDG No.: Q1744

Run Number: FD041025AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB167513BL	97	92	83	0
PB167513BS	96	97	83	0
PB167513BSD	90	92	77	0
B-158-SB01	73	63	82	0
B-158-SB02	70	60	58	0
B-149-SB01MS	75	63	63	0
B-149-SB01MSD	73	61	61	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:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : Q1746-01MS **Datafile:** FC068567.D

Client ID : B-149-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	11.2	0.39	5.46	45		(40-140)
Aliphatic C12-C16	7.5	1.86	7.54	76		(40-140)
Aliphatic C16-C21	11.2	4.07	10.3	56		(40-140)
Aliphatic C21-C28	14.9	0.79	13.2	83		(40-140)
Aliphatic C28-C40	22.4	2.09	20.9	84		(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:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : Q1746-01MSD **Datafile:** FC068568.D

Client ID : B-149-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	11.2	0.39	5.41	45		0.89 |	(40-140)	25
Aliphatic C12-C16	7.5	1.86	7.48	75		0.92 |	(40-140)	25
Aliphatic C16-C21	11.2	4.07	10.0	53		4.78 |	(40-140)	25
Aliphatic C21-C28	14.9	0.79	12.9	81		2.31 |	(40-140)	25
Aliphatic C28-C40	22.4	2.09	20.9	84		0.12 |	(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:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : Q1746-01MS **Datafile:** FD049276.D

Client ID : B-149-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7.5	0.48	3.09	35	*	(40-140)
Aromatic C12-C16	11.2	0.47	6.86	57		(40-140)
Aromatic C16-C21	18.6	3.58	18.3	79		(40-140)
Aromatic C21-C36	29.8	3.46	30.2	90		(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:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : Q1746-01MSD **Datafile:** FD049277.D

Client ID : B-149-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	7.5	0.48	3.09	35	*	0.29 |	(40-140)	25
Aromatic C12-C16	11.2	0.47	6.69	56		2.48 |	(40-140)	25
Aromatic C16-C21	18.6	3.58	18.0	77		1.92 |	(40-140)	25
Aromatic C21-C36	29.8	3.46	30.0	89		0.67 |	(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:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : PB167513BS **Datafile:** FC068561.D

Client ID : PB167513BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	5.72	57		(40-140)
Aliphatic C12-C16	6.7	5.43	82		(40-140)
Aliphatic C16-C21	10	9.70	97		(40-140)
Aliphatic C21-C28	13.3	13.1	98		(40-140)
Aliphatic C28-C40	20.0	19.1	96		(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:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : PB167513BSD **Datafile:** FC068562.D

Client ID : PB167513BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10.0	5.89	59		2.8|	(40-140)	50
Aliphatic C12-C16	6.7	5.49	82		1.1|	(40-140)	50
Aliphatic C16-C21	10.0	9.61	96		1|	(40-140)	50
Aliphatic C21-C28	13.3	12.9	97		1.6|	(40-140)	50
Aliphatic C28-C40	20.0	19.4	97		1.5|	(40-140)	50

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Fax : 908 789 8922

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : PB167513BS **Datafile:** FD049270.D

Client ID : PB167513BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	4.16	62		(40-140)
Aromatic C12-C16	10	7.05	71		(40-140)
Aromatic C16-C21	16.7	15.0	90		(40-140)
Aromatic C21-C36	26.6	26.7	100		(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:** Q1744 **SAS No :** Q1744 **SDG No:** Q1744

Sample No : PB167513BSD **Datafile:** FD049271.D

Client ID : PB167513BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	3.95	59		5.3|	(40-140)	50
Aromatic C12-C16	10.0	6.67	67		5.7|	(40-140)	50
Aromatic C16-C21	16.7	14.2	85		5.6|	(40-140)	50
Aromatic C21-C36	26.7	25.8	97		3.3|	(40-140)	50

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4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.
PB167513BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744 SDG NO.: Q1744

Instrument ID: FID_C Lab Sample ID: PB167513BL

Matrix: (soil/water) Solid Date Extracted: 4/8/2025 10:10:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB167513BS	PB167513BS
PB167513BSD	PB167513BSD
B-158-SB01	Q1744-01
B-158-SB02	Q1744-03
B-149-SB01MS	Q1746-01MS
B-149-SB01MSD	Q1746-01MSD

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BL	SDG No.:	Q1744
Lab Sample ID:	PB167513BL	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
04/08/25 10:10	04/10/25 21:36	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC068560.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC068560.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC068560.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC068560.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC068560.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049269.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049269.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049269.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.66	mg/kg	FD049269.D
TotalAliphaticEPH	Total AliphaticEPH	2.09	U		2.09	5.99	mg/kg	
TotalAromaticEPH	Total AromaticEPH	1.94	U		1.94	6.00	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BL	SDG No.:	Q1744
Lab Sample ID:	PB167513BL	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
FC068560.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.3		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:	PB167513BL	Acq On:	10 Apr 2025 21:36
Client Sample ID:	PB167513BL	Operator:	YP/AJ
Data file:	FC068560.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	0	0	300	ug/ml
Aliphatic C12-C16	6.645	10.043	0	0	200	ug/ml
Aliphatic C16-C21	10.044	13.409	0	0	300	ug/ml
Aliphatic C21-C28	13.410	17.073	0	0	400	ug/ml
Aliphatic C28-C40	17.074	22.075	0	0	600	ug/ml
Aliphatic EPH	3.345	22.075	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.143	13.143	3367296	36.25		ug/ml
Aliphatic C9-C28	3.345	17.073	0	0	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BL	SDG No.:	Q1744
Lab Sample ID:	PB167513BL	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
FD049269.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21		0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36		1.19	U	1.19	2.66	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		48.6		40 - 140	97%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		45.8		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		41.5		40 - 140	83%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167513BL	Acq On:	10 Apr 2025 14:48
Client Sample ID:	PB167513BL	Operator:	YP/AJ
Data file:	FD049269.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	4.440	6.185	0	0	200	ug/ml
Aromatic C12-C16	6.186	8.813	0	0	300	ug/ml
Aromatic C16-C21	8.814	13.102	0	0	500	ug/ml
Aromatic C21-C36	13.103	18.519	0	0	800	ug/ml
Aromatic EPH	4.440	18.519	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	7195070	48.57		ug/ml
2-Flurobiphenyl (SURR)	8.616	8.616	4667252	45.76		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	7315586	41.52		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BS	SDG No.:	Q1744
Lab Sample ID:	PB167513BS	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
04/08/25 10:10	04/10/25 22:14	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.72		1	0.14	1.00	mg/kg	FC068561.D
Aliphatic C12-C16	Aliphatic C12-C16	5.43		1	0.11	0.67	mg/kg	FC068561.D
Aliphatic C16-C21	Aliphatic C16-C21	9.70		1	0.13	1.00	mg/kg	FC068561.D
Aliphatic C21-C28	Aliphatic C21-C28	13.1		1	0.53	1.33	mg/kg	FC068561.D
Aliphatic C28-C40	Aliphatic C28-C40	19.1		1	1.18	2.00	mg/kg	FC068561.D
Aromatic C10-C12	Aromatic C10-C12	4.16		1	0.12	0.67	mg/kg	FD049270.D
Aromatic C12-C16	Aromatic C12-C16	7.05		1	0.23	1.00	mg/kg	FD049270.D
Aromatic C16-C21	Aromatic C16-C21	15.0		1	0.40	1.67	mg/kg	FD049270.D
Aromatic C21-C36	Aromatic C21-C36	26.7		1	1.19	2.66	mg/kg	FD049270.D
Total AliphaticEPH	Total AliphaticEPH	53.0			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	52.9			1.94	6.00	mg/kg	
Total EPH	Total EPH	106			4.03	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BS	SDG No.:	Q1744
Lab Sample ID:	PB167513BS	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
FC068561.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.72		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.43		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.70		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.1		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.1		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167513BS	Acq On:	10 Apr 2025 22:14
Client Sample ID:	PB167513BS	Operator:	YP/AJ
Data file:	FC068561.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	9042394	85.887	300	ug/ml
Aliphatic C12-C16	6.645	10.043	8338947	81.497	200	ug/ml
Aliphatic C16-C21	10.044	13.409	14390551	145.629	300	ug/ml
Aliphatic C21-C28	13.410	17.073	18583668	197.31	400	ug/ml
Aliphatic C28-C40	17.074	22.075	25756434	286.556	600	ug/ml
Aliphatic EPH	3.345	22.075	76111994	796.878		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.144	13.144	3476251	37.42		ug/ml
Aliphatic C9-C28	3.345	17.073	50355560	510.323	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BS	SDG No.:	Q1744
Lab Sample ID:	PB167513BS	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
FD049270.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.16		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.05		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.0		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.7		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.0		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.7		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.3		40 - 140	83%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167513BS	Acq On:	10 Apr 2025 15:25
Client Sample ID:	PB167513BS	Operator:	YP/AJ
Data file:	FD049270.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	4.440	6.185	9786368	62.416	200	ug/ml
Aromatic C12-C16	6.186	8.813	18016061	105.837	300	ug/ml
Aromatic C16-C21	8.814	13.102	37740425	225.045	500	ug/ml
Aromatic C21-C36	13.103	18.519	55456489	401.45	800	ug/ml
Aromatic EPH	4.440	18.519	120999343	794.748		ug/ml
2-Bromonaphthalene (SURR)	7.751	7.751	7104793	47.96		ug/ml
2-Flurobiphenyl (SURR)	8.617	8.617	4968091	48.71		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	7270035	41.26		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BSD	SDG No.:	Q1744
Lab Sample ID:	PB167513BSD	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
FD049271.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.95		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.67		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.2		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	25.8		1.19	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.1		40 - 140	90%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.1		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.6		40 - 140	77%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB167513BSD	Acq On:	10 Apr 2025 16:01
Client Sample ID:	PB167513BSD	Operator:	YP/AJ
Data file:	FD049271.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	4.440	6.185	9301714	59.325	200	ug/ml
Aromatic C12-C16	6.186	8.813	17048886	100.155	300	ug/ml
Aromatic C16-C21	8.814	13.102	35679919	212.759	500	ug/ml
Aromatic C21-C36	13.103	18.519	53517642	387.415	800	ug/ml
Aromatic EPH	4.440	18.519	115548161	759.653		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	6686285	45.14		ug/ml
2-Flurobiphenyl (SURR)	8.617	8.617	4699720	46.07		ug/ml
ortho-Terphenyl (SURR)	11.657	11.657	6796630	38.58		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BSD	SDG No.:	Q1744
Lab Sample ID:	PB167513BSD	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
04/08/25 10:10	04/10/25 22:51	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.89		1	0.14	1.00	mg/kg	FC068562.D
Aliphatic C12-C16	Aliphatic C12-C16	5.49		1	0.11	0.67	mg/kg	FC068562.D
Aliphatic C16-C21	Aliphatic C16-C21	9.61		1	0.13	1.00	mg/kg	FC068562.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.53	1.33	mg/kg	FC068562.D
Aliphatic C28-C40	Aliphatic C28-C40	19.4		1	1.18	2.00	mg/kg	FC068562.D
Aromatic C10-C12	Aromatic C10-C12	3.95		1	0.12	0.67	mg/kg	FD049271.D
Aromatic C12-C16	Aromatic C12-C16	6.67		1	0.23	1.00	mg/kg	FD049271.D
Aromatic C16-C21	Aromatic C16-C21	14.2		1	0.40	1.67	mg/kg	FD049271.D
Aromatic C21-C36	Aromatic C21-C36	25.8		1	1.19	2.67	mg/kg	FD049271.D
Total AliphaticEPH	Total AliphaticEPH	53.3			2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	50.6			1.94	6.01	mg/kg	
Total EPH	Total EPH	104			4.03	12.0	mg/kg	

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167513BSD	SDG No.:	Q1744
Lab Sample ID:	PB167513BSD	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
FC068562.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.89		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.49		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.61		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.4		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.4		40 - 140	73%	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:	PB167513BSD	Acq On:	10 Apr 2025 22:51
Client Sample ID:	PB167513BSD	Operator:	YP/AJ
Data file:	FC068562.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	9299361	88.328	300	ug/ml
Aliphatic C12-C16	6.645	10.043	8429399	82.381	200	ug/ml
Aliphatic C16-C21	10.044	13.409	14243382	144.14	300	ug/ml
Aliphatic C21-C28	13.410	17.073	18255682	193.827	400	ug/ml
Aliphatic C28-C40	17.074	22.075	26143226	290.859	600	ug/ml
Aliphatic EPH	3.345	22.075	76371050	799.535		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.144	13.144	3378740	36.37		ug/ml
Aliphatic C9-C28	3.345	17.073	50227824	508.676	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MS	SDG No.:	Q1744
Lab Sample ID:	Q1746-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
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
04/08/25 10:10	04/11/25 1:55	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.46		1	0.16	1.12	mg/kg	FC068567.D
Aliphatic C12-C16	Aliphatic C12-C16	7.54		1	0.12	0.75	mg/kg	FC068567.D
Aliphatic C16-C21	Aliphatic C16-C21	10.3		1	0.14	1.12	mg/kg	FC068567.D
Aliphatic C21-C28	Aliphatic C21-C28	13.2		1	0.59	1.49	mg/kg	FC068567.D
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1	1.32	2.24	mg/kg	FC068567.D
Aromatic C10-C12	Aromatic C10-C12	3.09		1	0.13	0.75	mg/kg	FD049276.D
Aromatic C12-C16	Aromatic C12-C16	6.86		1	0.26	1.12	mg/kg	FD049276.D
Aromatic C16-C21	Aromatic C16-C21	18.3		1	0.45	1.86	mg/kg	FD049276.D
Aromatic C21-C36	Aromatic C21-C36	30.2		1	1.33	2.98	mg/kg	FD049276.D
Total AliphaticEPH	Total AliphaticEPH	57.4			2.34	6.72	mg/kg	
Total AromaticEPH	Total AromaticEPH	58.5			2.17	6.71	mg/kg	
Total EPH	Total EPH	116			4.51	13.4	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 2025	Date Received:	
Client Sample ID:	B-149-SB01MS	SDG No.:	Q1744
Lab Sample ID:	Q1746-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068567.D	1	04/08/25	04/11/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.46		0.16	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.54		0.12	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.3		0.14	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.2		0.59	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1.32	2.24	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:	Q1746-01MS	Acq On:	11 Apr 2025 01:55
Client Sample ID:	B-149-SB01MS	Operator:	YP/AJ
Data file:	FC068567.D	Misc:	
Instrument:	FID_C	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	7702838	73.164	300	ug/ml
Aliphatic C12-C16	6.645	10.043	10348107	101.132	200	ug/ml
Aliphatic C16-C21	10.044	13.409	13666430	138.301	300	ug/ml
Aliphatic C21-C28	13.410	17.073	16611483	176.37	400	ug/ml
Aliphatic C28-C40	17.074	22.075	25202936	280.398	600	ug/ml
Aliphatic EPH	3.345	22.075	73531794	769.365		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	3712633	39.97		ug/ml
Aliphatic C9-C28	3.345	17.073	48328858	488.967	1200	ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MS	SDG No.:	Q1744
Lab Sample ID:	Q1746-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049276.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.09		0.13	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.86		0.26	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.3		0.45	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	30.2		1.33	2.98	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	37.3		40 - 140	75%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	31.3		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.3		40 - 140	63%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-01MS	Acq On:	10 Apr 2025 19:07
Client Sample ID:	B-149-SB01MS	Operator:	YP/AJ
Data file:	FD049276.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	6502884	41.475	200	ug/ml
Aromatic C12-C16	6.186	8.813	15663652	92.017	300	ug/ml
Aromatic C16-C21	8.814	13.102	41109336	245.134	500	ug/ml
Aromatic C21-C36	13.103	18.519	55857007	404.349	800	ug/ml
Aromatic EPH	4.440	18.519	119132879	782.975		ug/ml
2-Bromonaphthalene (SURR)	7.750	7.750	5519783	37.26		ug/ml
2-Flurobiphenyl (SURR)	8.615	8.615	3189374	31.27		ug/ml
ortho-Terphenyl (SURR)	11.658	11.658	5506873	31.26		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MSD	SDG No.:	Q1744
Lab Sample ID:	Q1746-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
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
FD049277.D	1	04/08/25	04/10/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.09		0.13	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.69		0.26	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.0		0.45	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	30.0		1.33	2.98	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	36.5		40 - 140	73%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.6		40 - 140	61%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1746-01MSD	Acq On:	10 Apr 2025 19:45
Client Sample ID:	B-149-SB01MSD	Operator:	YP/AJ
Data file:	FD049277.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.440	6.185	6505753	41.493	200	ug/ml
Aromatic C12-C16	6.186	8.813	15286302	89.801	300	ug/ml
Aromatic C16-C21	8.814	13.102	40540836	241.744	500	ug/ml
Aromatic C21-C36	13.103	18.519	55547232	402.107	800	ug/ml
Aromatic EPH	4.440	18.519	117880123	775.144		ug/ml
2-Bromonaphthalene (SURR)	7.749	7.749	5402290	36.47		ug/ml
2-Flurobiphenyl (SURR)	8.615	8.615	3125160	30.64		ug/ml
ortho-Terphenyl (SURR)	11.657	11.657	5397335	30.63		ug/ml

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-149-SB01MSD	SDG No.:	Q1744
Lab Sample ID:	Q1746-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
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
04/08/25 10:10	04/11/25 2:32	PB167513

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.41		1	0.16	1.12	mg/kg	FC068568.D
Aliphatic C12-C16	Aliphatic C12-C16	7.48		1	0.12	0.75	mg/kg	FC068568.D
Aliphatic C16-C21	Aliphatic C16-C21	10.0		1	0.14	1.12	mg/kg	FC068568.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.59	1.49	mg/kg	FC068568.D
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1	1.32	2.24	mg/kg	FC068568.D
Aromatic C10-C12	Aromatic C10-C12	3.09		1	0.13	0.75	mg/kg	FD049277.D
Aromatic C12-C16	Aromatic C12-C16	6.69		1	0.26	1.12	mg/kg	FD049277.D
Aromatic C16-C21	Aromatic C16-C21	18.0		1	0.45	1.86	mg/kg	FD049277.D
Aromatic C21-C36	Aromatic C21-C36	30.0		1	1.33	2.98	mg/kg	FD049277.D
Total AliphaticEPH	Total AliphaticEPH	56.7			2.34	6.71	mg/kg	
Total AromaticEPH	Total AromaticEPH	57.8			2.17	6.71	mg/kg	
Total EPH	Total EPH	114			4.50	13.4	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 2025	Date Received:	
Client Sample ID:	B-149-SB01MSD	SDG No.:	Q1744
Lab Sample ID:	Q1746-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
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
FC068568.D	1	04/08/25	04/11/25	PB167513

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.41		0.16	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.48		0.12	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.0		0.14	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.59	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.9		1.32	2.24	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.4		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1746-01MSD	Acq On:	11 Apr 2025 02:32
Client Sample ID:	B-149-SB01MSD	Operator:	YP/AJ
Data file:	FC068568.D	Misc:	
Instrument:	FID_C	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.345	6.644	7650872	72.67	300	ug/ml
Aliphatic C12-C16	6.645	10.043	10268534	100.355	200	ug/ml
Aliphatic C16-C21	10.044	13.409	13273967	134.329	300	ug/ml
Aliphatic C21-C28	13.410	17.073	16271859	172.764	400	ug/ml
Aliphatic C28-C40	17.074	22.075	25154299	279.857	600	ug/ml
Aliphatic EPH	3.345	22.075	72619531	759.975		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.148	13.148	3752451	40.4		ug/ml
Aliphatic C9-C28	3.345	17.073	47465232	480.118	1200	ug/ml

CALIBRATION SUMMARY

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Inital Calibration Report for SequenceID : FC040925AL

AreaCount

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	28917690.000	15222657.000	6286032.000	3422392.000	1645296.000	
Aliphatic C12-C16	18431489.000	9897338.000	4088590.000	2253140.000	1056103.000	
Aliphatic C16-C21	26693561.000	14380121.000	5937795.000	3290227.000	1508988.000	
Aliphatic C21-C28	34681529.000	18246305.000	7529133.000	4137443.000	1908822.000	
Aliphatic C28-C40	51686216.000	25852842.000	10689091.000	5728785.000	2776165.000	
Aliphatic EPH	160410485.000	83599263.000	34530641.000	18831987.000	8895374.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	105282.0026666	6.555				
Aliphatic C12-C16	102322.575	7.446				
Aliphatic C16-C21	98816.5386664	7.616				
Aliphatic C21-C28	94185.337	6.542				
Aliphatic C28-C40	89882.8349998	4.545				
Aliphatic EPH	96276.6184442	6.125				

Concentration

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.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	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	96392.300000	101484.380000	104767.200000	114079.733333	109686.400000	
Aliphatic C12-C16	92157.445000	98973.380000	102214.750000	112657.000000	105610.300000	
Aliphatic C16-C21	88978.536666	95867.473333	98963.250000	109674.233333	100599.200000	

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Inital Calibration Report for SequenceID : FC040925AL

Aliphatic C21-C28	86703.822500	91231.525000	94114.162500	103436.075000	95441.100000	
Aliphatic C28-C40	86143.693333	86176.140000	89075.758333	95479.750000	92538.833333	
Aliphatic EPH	89116.936111	92888.070000	95918.447222	104622.150000	98837.488888	

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Inital Calibration Report for SequenceID : FD040725AR

AreaCount

Parameter Range	FD049232.D	FD049233.D	FD049234.D	FD049235.D	FD049236.D	
Aromatic C10-C12	29839752.000	14982241.000	6112471.000	3350222.000	1646164.000	
Aromatic C12-C16	49677487.000	24625801.000	9979747.000	5389632.000	2630674.000	
Aromatic C16-C21	65416364.000	32353084.000	13305741.000	7066388.000	3404391.000	
Aromatic C21-C36	119779017.000	59475216.000	24862220.000	13179500.000	6339819.000	
Aromatic EPH	264712620.000	131436342.000	54260179.000	28985742.000	14021048.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	156792.089	5.507				
Aromatic C12-C16	170225.0826662	4.035				
Aromatic C16-C21	167701.4685	3.541				
Aromatic C21-C36	138140.428666	4.246				
Aromatic EPH	152129.3976664	4.123				

Concentration

Parameter Range	FD049232.D	FD049233.D	FD049234.D	FD049235.D	FD049236.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	FD049232.D	FD049233.D	FD049234.D	FD049235.D	FD049236.D	
Aromatic C10-C12	149198.760000	149822.410000	152811.775000	167511.100000	164616.400000	
Aromatic C12-C16	165591.623333	164172.006666	166329.116666	179654.400000	175378.266666	
Aromatic C16-C21	163540.910000	161765.420000	166321.762500	176659.700000	170219.550000	
Aromatic C21-C36	133087.796666	132167.146666	138123.444444	146438.888888	140884.866666	
Aromatic EPH	147062.566666	146040.380000	150722.719444	161031.900000	155789.422222	

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Continuing Calibration Report for SequenceID : FC041125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068559.D**						
Aliphatic C9-C12	6096249.000	60.000	3.345	6.644	101604.150	105282.003	3.493
Aliphatic C12-C16	3784483.000	40.000	6.645	10.043	94612.075	102322.575	7.535
Aliphatic C16-C21	5304758.000	60.000	10.044	13.409	88412.633	98816.539	10.529
Aliphatic C21-C28	6712207.000	80.000	13.410	17.073	83902.588	94185.337	10.918
Aliphatic C28-C40	10067118.000	120.000	17.074	22.075	83892.650	89882.835	6.664
Aliphatic EPH	31964815.000	360.000	3.345	22.075	88791.153	96276.618	7.775

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	10 Apr 2025 19:45
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068559.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.345	6.644	6096249.000	60.000	ug/ml
Aliphatic C12-C16	6.645	10.043	3784483.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.409	5304758.000	60.000	ug/ml
Aliphatic C21-C28	13.410	17.073	6712207.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.075	10067118.000	120.000	ug/ml
Aliphatic EPH	3.345	22.075	31964815.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FC041125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068571.D**						
Aliphatic C9-C12	6233414.000	60.000	3.345	6.644	103890.233	105282.003	1.322
Aliphatic C12-C16	3778079.000	40.000	6.645	10.043	94451.975	102322.575	7.692
Aliphatic C16-C21	5202338.000	60.000	10.044	13.409	86705.633	98816.539	12.256
Aliphatic C21-C28	6676284.000	80.000	13.410	17.073	83453.550	94185.337	11.394
Aliphatic C28-C40	10202260.000	120.000	17.074	22.075	85018.833	89882.835	5.411
Aliphatic EPH	32092375.000	360.000	3.345	22.075	89145.486	96276.618	7.407

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Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	11 Apr 2025 04:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068571.D	Misc:	
Instrument:	FID_C	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.345	6.644	6233414.000	60.000	ug/ml
Aliphatic C12-C16	6.645	10.043	3778079.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.409	5202338.000	60.000	ug/ml
Aliphatic C21-C28	13.410	17.073	6676284.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.075	10202260.000	120.000	ug/ml
Aliphatic EPH	3.345	22.075	32092375.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD041025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049268.D**						
Aromatic C10-C12	5439988.000	40.000	4.440	6.185	135999.700	156792.089	13.261
Aromatic C12-C16	8722016.000	60.000	6.186	8.813	145366.933	170225.083	14.603
Aromatic C16-C21	11673840.000	80.000	8.814	13.102	145923.000	167701.469	12.986
Aromatic C21-C36	23479622.000	180.000	13.103	18.519	130442.344	138140.429	5.573
Aromatic EPH	49315466.000	360.000	4.440	18.519	136987.406	152129.398	9.953

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	10 Apr 2025 14:10
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049268.D	Misc:	
Instrument:	FID_D	ALS Vial:	54
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.440	6.185	5439988.000	40.000	ug/ml
Aromatic C12-C16	6.186	8.813	8722016.000	60.000	ug/ml
Aromatic C16-C21	8.814	13.102	11673840.000	80.000	ug/ml
Aromatic C21-C36	13.103	18.519	23479622.000	180.000	ug/ml
Aromatic EPH	4.440	18.519	49315466.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD041025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049280.D**						
Aromatic C10-C12	5275482.000	40.000	4.440	6.185	131887.050	156792.089	15.884
Aromatic C12-C16	8494935.000	60.000	6.186	8.813	141582.250	170225.083	16.826
Aromatic C16-C21	11446135.000	80.000	8.814	13.102	143076.688	167701.469	14.684
Aromatic C21-C36	22930748.000	180.000	13.103	18.519	127393.044	138140.429	7.780
Aromatic EPH	48147300.000	360.000	4.440	18.519	133742.500	152129.398	12.086

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	10 Apr 2025 21:36
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049280.D	Misc:	
Instrument:	FID_D	ALS Vial:	54
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.440	6.185	5275482.000	40.000	ug/ml
Aromatic C12-C16	6.186	8.813	8494935.000	60.000	ug/ml
Aromatic C16-C21	8.814	13.102	11446135.000	80.000	ug/ml
Aromatic C21-C36	13.103	18.519	22930748.000	180.000	ug/ml
Aromatic EPH	4.440	18.519	48147300.000	360.000	ug/ml

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068563.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 23:28
Operator : YP/AJ
Sample : Q1744-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-158-SB01

Integration File: autoint1.e
Quant Time: Apr 11 03:46:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.145	4456429	47.973 ug/ml
Spiked Amount 50.000		Recovery = 95.95%	
Target Compounds			

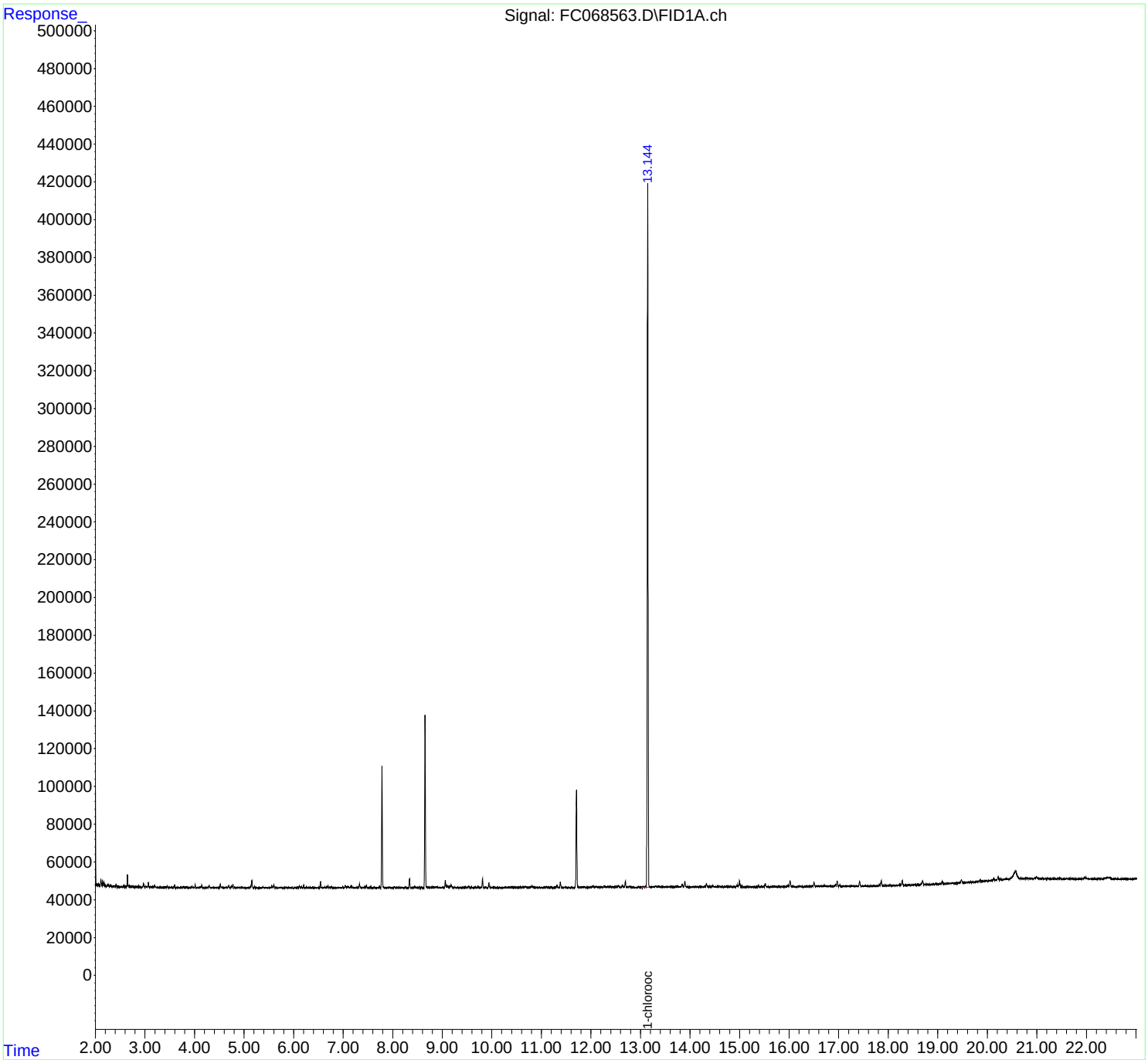
(f)=RT Delta > 1/2 Window (m)=manual int.

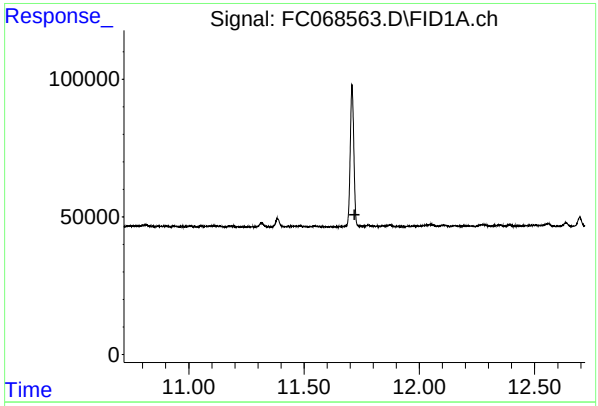
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068563.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 23:28
Operator : YP/AJ
Sample : Q1744-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-158-SB01

Integration File: autoint1.e
Quant Time: Apr 11 03:46:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

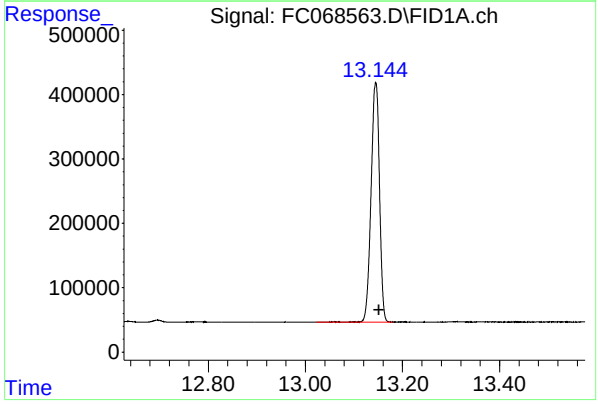




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-158-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.145 min
Delta R.T.: -0.007 min
Response: 4456429
Conc: 47.97 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068563.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 23:28
Sample : Q1744-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.417	2.371	2.444	BV	937	6705	0.15%	0.058%
2	2.454	2.444	2.506	PV	78	821	0.02%	0.007%
3	2.526	2.506	2.551	PV	73	984	0.02%	0.008%
4	2.570	2.551	2.595	VV	504	5887	0.13%	0.051%
5	2.603	2.595	2.621	PV	270	2631	0.06%	0.023%
6	2.647	2.621	2.671	VV	6548	53858	1.21%	0.463%
7	2.683	2.671	2.702	VV	629	7162	0.16%	0.062%
8	2.710	2.702	2.722	VV	194	1677	0.04%	0.014%
9	2.744	2.722	2.763	PV	150	2258	0.05%	0.019%
10	2.777	2.763	2.792	VV	261	2042	0.05%	0.018%
11	2.814	2.792	2.831	VV	249	3737	0.08%	0.032%
12	2.837	2.831	2.845	VV	97	775	0.02%	0.007%
13	2.879	2.845	2.928	VV	551	7611	0.17%	0.065%
14	2.969	2.928	3.001	PV	1912	24961	0.56%	0.215%
15	3.017	3.001	3.051	VV	851	9297	0.21%	0.080%
16	3.069	3.051	3.124	VV	2713	26394	0.59%	0.227%
17	3.148	3.124	3.176	VV	337	5222	0.12%	0.045%
18	3.197	3.176	3.258	VV	1307	14656	0.33%	0.126%
19	3.270	3.258	3.318	VV	164	2722	0.06%	0.023%
20	3.354	3.318	3.414	PV	181	4264	0.10%	0.037%
21	3.446	3.414	3.488	VV	978	11296	0.25%	0.097%
22	3.502	3.488	3.518	PV	121	1223	0.03%	0.011%
23	3.551	3.518	3.577	VV	190	4327	0.10%	0.037%
24	3.597	3.577	3.624	VV	1541	14063	0.31%	0.121%
25	3.645	3.624	3.705	PV	219	4695	0.11%	0.040%
26	3.725	3.705	3.745	VV	184	3356	0.08%	0.029%
27	3.774	3.745	3.799	VV	430	7926	0.18%	0.068%
28	3.832	3.799	3.888	VV	467	9505	0.21%	0.082%
29	3.899	3.888	3.915	VV	119	912	0.02%	0.008%
30	3.945	3.915	3.958	VV	334	4498	0.10%	0.039%
31	3.970	3.958	3.981	VV	186	1565	0.04%	0.013%
32	4.014	3.981	4.080	VV	1628	18901	0.42%	0.162%
33	4.119	4.080	4.131	PV	601	7841	0.18%	0.067%
34	4.147	4.131	4.171	VV	1397	14350	0.32%	0.123%
35	4.186	4.171	4.198	VV	177	2132	0.05%	0.018%
36	4.215	4.198	4.258	VV	308	4807	0.11%	0.041%

rteres

37	4.293	4.258	4.316	VV	955	16576	0.37%	0.142%
38	4.330	4.316	4.382	VV	272	5766	0.13%	0.050%
39	4.390	4.382	4.401	VV	163	1203	0.03%	0.010%
40	4.434	4.401	4.458	VV	206	4791	0.11%	0.041%
41	4.520	4.458	4.545	VV	2033	24292	0.54%	0.209%
42	4.565	4.545	4.582	VV	307	4554	0.10%	0.039%
43	4.632	4.582	4.659	VV	381	7664	0.17%	0.066%
44	4.689	4.659	4.711	VV	1309	16915	0.38%	0.145%
45	4.745	4.711	4.761	VV	1273	16117	0.36%	0.139%
46	4.775	4.761	4.796	VV	1982	18827	0.42%	0.162%
47	4.806	4.796	4.818	VV	146	1800	0.04%	0.015%
48	4.827	4.818	4.843	VV	193	1813	0.04%	0.016%
49	4.904	4.843	4.923	VV	301	7884	0.18%	0.068%
50	4.938	4.923	4.954	VV	221	2958	0.07%	0.025%
51	4.964	4.954	4.991	VV	194	3317	0.07%	0.029%
52	4.999	4.991	5.045	VV	130	2141	0.05%	0.018%
53	5.079	5.045	5.106	VV	291	4992	0.11%	0.043%
54	5.157	5.106	5.186	VV	4041	53790	1.20%	0.462%
55	5.214	5.186	5.230	VV	791	9723	0.22%	0.084%
56	5.243	5.230	5.311	VV	326	7098	0.16%	0.061%
57	5.351	5.311	5.368	PV	232	3668	0.08%	0.032%
58	5.384	5.368	5.421	VV	561	6640	0.15%	0.057%
59	5.436	5.421	5.497	VV	185	4939	0.11%	0.042%
60	5.526	5.497	5.540	VV	237	4011	0.09%	0.034%
61	5.561	5.540	5.580	VV	1256	13089	0.29%	0.113%
62	5.602	5.580	5.643	VV	1764	20307	0.45%	0.175%
63	5.659	5.643	5.685	VV	401	3634	0.08%	0.031%
64	5.750	5.685	5.789	PV	420	11443	0.26%	0.098%
65	5.851	5.789	5.888	VV	371	10259	0.23%	0.088%
66	5.907	5.888	5.928	VV	368	4957	0.11%	0.043%
67	5.959	5.928	6.001	VV	171	4913	0.11%	0.042%
68	6.017	6.001	6.032	VV	209	2677	0.06%	0.023%
69	6.062	6.032	6.080	VV	291	4435	0.10%	0.038%
70	6.117	6.080	6.145	VV	1060	16427	0.37%	0.141%
71	6.160	6.145	6.185	VV	591	7859	0.18%	0.068%
72	6.202	6.185	6.235	VV	1265	15126	0.34%	0.130%
73	6.263	6.235	6.300	VV	744	10249	0.23%	0.088%
74	6.335	6.300	6.370	VV	341	9110	0.20%	0.078%
75	6.380	6.370	6.405	VV	191	3306	0.07%	0.028%
76	6.421	6.405	6.498	VV	195	6059	0.14%	0.052%
77	6.543	6.516	6.573	VV	3330	34529	0.77%	0.297%
78	6.586	6.573	6.598	VV	141	1782	0.04%	0.015%
79	6.629	6.598	6.647	VV	609	8504	0.19%	0.073%
80	6.664	6.647	6.678	VV	426	5571	0.12%	0.048%
81	6.693	6.678	6.714	VV	1353	14383	0.32%	0.124%
82	6.729	6.714	6.746	VV	403	5254	0.12%	0.045%
83	6.766	6.746	6.796	VV	591	8238	0.18%	0.071%
84	6.821	6.796	6.847	PV	187	3754	0.08%	0.032%
85	6.872	6.847	6.892	VV	249	3806	0.09%	0.033%
86	6.915	6.892	6.925	VV	172	2693	0.06%	0.023%
87	6.943	6.925	6.965	VV	241	3343	0.07%	0.029%
88	6.988	6.965	7.017	VV	581	8177	0.18%	0.070%
89	7.041	7.017	7.078	VV	1031	19601	0.44%	0.168%

rteres

90	7.102	7.078	7.130	VV	801	15699	0.35%	0.135%
91	7.167	7.130	7.190	VV	1142	18975	0.42%	0.163%
92	7.203	7.190	7.232	VV	296	4549	0.10%	0.039%
93	7.247	7.232	7.260	VV	247	2839	0.06%	0.024%
94	7.275	7.260	7.291	VV	305	3191	0.07%	0.027%
95	7.330	7.291	7.370	VV	2070	26931	0.60%	0.231%
96	7.389	7.370	7.418	VV	337	6757	0.15%	0.058%
97	7.435	7.418	7.447	VV	524	5586	0.13%	0.048%
98	7.468	7.447	7.490	VV	1547	18204	0.41%	0.156%
99	7.505	7.490	7.515	VV	258	2692	0.06%	0.023%
100	7.559	7.515	7.605	VV	633	13753	0.31%	0.118%
101	7.617	7.605	7.664	VV	177	4385	0.10%	0.038%
102	7.678	7.664	7.710	PV	162	2963	0.07%	0.025%
103	7.731	7.710	7.758	VV	881	11305	0.25%	0.097%
104	7.785	7.758	7.857	VV	64510	623607	13.96%	5.360%
105	7.890	7.857	7.945	VV	279	10237	0.23%	0.088%
106	7.950	7.945	7.968	VV	236	2041	0.05%	0.018%
107	7.971	7.968	7.981	VV	130	775	0.02%	0.007%
108	7.993	7.981	8.015	VV	233	2470	0.06%	0.021%
109	8.035	8.015	8.075	VV	805	9811	0.22%	0.084%
110	8.092	8.075	8.112	VV	576	6463	0.14%	0.056%
111	8.128	8.112	8.148	VV	201	3016	0.07%	0.026%
112	8.161	8.148	8.181	VV	251	2389	0.05%	0.021%
113	8.201	8.181	8.224	VV	146	2404	0.05%	0.021%
114	8.246	8.224	8.265	VV	516	6741	0.15%	0.058%
115	8.273	8.265	8.315	VV	257	4143	0.09%	0.036%
116	8.340	8.315	8.418	VV	4849	56426	1.26%	0.485%
117	8.439	8.418	8.477	VV	465	10916	0.24%	0.094%
118	8.491	8.477	8.516	VV	301	4558	0.10%	0.039%
119	8.536	8.516	8.561	PV	274	4112	0.09%	0.035%
120	8.576	8.561	8.618	VV	462	5277	0.12%	0.045%
121	8.654	8.618	8.731	VV	90894	908577	20.34%	7.809%
122	8.756	8.731	8.774	VV	366	7070	0.16%	0.061%
123	8.802	8.774	8.817	VV	462	9516	0.21%	0.082%
124	8.831	8.817	8.845	VV	559	6809	0.15%	0.059%
125	8.854	8.845	8.861	VV	398	3501	0.08%	0.030%
126	8.879	8.861	8.921	VV	832	17943	0.40%	0.154%
127	8.945	8.921	8.967	VV	357	5847	0.13%	0.050%
128	8.997	8.967	9.021	VV	321	6410	0.14%	0.055%
129	9.064	9.021	9.082	VV	4109	46883	1.05%	0.403%
130	9.096	9.082	9.137	VV	1277	23259	0.52%	0.200%
131	9.182	9.137	9.210	VV	1575	37089	0.83%	0.319%
132	9.220	9.210	9.238	VV	405	3943	0.09%	0.034%
133	9.252	9.238	9.278	VV	486	6319	0.14%	0.054%
134	9.301	9.278	9.335	VV	360	6005	0.13%	0.052%
135	9.354	9.335	9.368	VV	250	3403	0.08%	0.029%
136	9.384	9.368	9.431	VV	317	6621	0.15%	0.057%
137	9.467	9.431	9.503	VV	477	10632	0.24%	0.091%
138	9.533	9.503	9.564	VV	958	15355	0.34%	0.132%
139	9.585	9.564	9.616	VV	325	6438	0.14%	0.055%
140	9.626	9.616	9.647	VV	209	2709	0.06%	0.023%
141	9.669	9.647	9.699	VV	484	7394	0.17%	0.064%

rteres

142	9.722	9.699	9.761	VV	839	10059	0.23%	0.086%
143	9.784	9.761	9.794	VV	496	5299	0.12%	0.046%
144	9.814	9.794	9.839	VV	4959	50067	1.12%	0.430%
145	9.861	9.839	9.913	VV	585	8029	0.18%	0.069%
146	9.942	9.913	9.975	PV	2688	30777	0.69%	0.265%
147	9.985	9.975	9.993	VV	122	789	0.02%	0.007%
148	10.016	9.993	10.082	VV	315	10720	0.24%	0.092%
149	10.107	10.082	10.127	VV	158	3037	0.07%	0.026%
150	10.141	10.127	10.178	VV	122	1724	0.04%	0.015%
151	10.222	10.178	10.235	PV	232	3833	0.09%	0.033%
152	10.266	10.235	10.279	VV	316	5224	0.12%	0.045%
153	10.294	10.279	10.313	VV	246	4349	0.10%	0.037%
154	10.336	10.313	10.355	VV	491	7883	0.18%	0.068%
155	10.377	10.355	10.395	VV	436	7066	0.16%	0.061%
156	10.421	10.395	10.454	VV	381	9106	0.20%	0.078%
157	10.470	10.454	10.501	VV	357	6301	0.14%	0.054%
158	10.505	10.501	10.521	VV	218	1725	0.04%	0.015%
159	10.545	10.521	10.561	VV	409	6471	0.14%	0.056%
160	10.569	10.561	10.597	VV	399	6950	0.16%	0.060%
161	10.616	10.597	10.626	VV	480	6517	0.15%	0.056%
162	10.630	10.626	10.651	VV	424	5138	0.12%	0.044%
163	10.680	10.651	10.721	VV	839	18378	0.41%	0.158%
164	10.742	10.721	10.786	VV	392	12668	0.28%	0.109%
165	10.813	10.786	10.856	VV	852	18773	0.42%	0.161%
166	10.896	10.856	10.924	VV	348	9473	0.21%	0.081%
167	10.938	10.924	10.975	VV	301	5849	0.13%	0.050%
168	11.008	10.975	11.037	VV	353	8005	0.18%	0.069%
169	11.051	11.037	11.071	VV	257	4057	0.09%	0.035%
170	11.079	11.071	11.091	VV	298	2823	0.06%	0.024%
171	11.109	11.091	11.156	VV	463	11191	0.25%	0.096%
172	11.189	11.156	11.225	VV	300	6150	0.14%	0.053%
173	11.233	11.225	11.282	VV	110	2927	0.07%	0.025%
174	11.316	11.282	11.354	VV	1491	20594	0.46%	0.177%
175	11.385	11.354	11.418	VV	3063	37631	0.84%	0.323%
176	11.481	11.418	11.515	VV	407	12696	0.28%	0.109%
177	11.545	11.515	11.568	VV	334	5110	0.11%	0.044%
178	11.580	11.568	11.648	VV	180	5293	0.12%	0.045%
179	11.708	11.648	11.760	PV	51665	566178	12.67%	4.866%
180	11.780	11.760	11.822	VV	512	11216	0.25%	0.096%
181	11.842	11.822	11.854	VV	418	5949	0.13%	0.051%
182	11.871	11.854	11.916	VV	646	11501	0.26%	0.099%
183	11.932	11.916	11.945	VV	153	2305	0.05%	0.020%
184	11.979	11.945	11.995	VV	291	7143	0.16%	0.061%
185	12.050	11.995	12.088	VV	825	25862	0.58%	0.222%
186	12.105	12.088	12.129	VV	704	10824	0.24%	0.093%
187	12.154	12.129	12.174	VV	421	8146	0.18%	0.070%
188	12.193	12.174	12.241	VV	370	10853	0.24%	0.093%
189	12.275	12.241	12.311	VV	900	20392	0.46%	0.175%
190	12.348	12.311	12.371	VV	647	14931	0.33%	0.128%
191	12.391	12.371	12.410	VV	814	10638	0.24%	0.091%
192	12.433	12.410	12.442	VV	370	6227	0.14%	0.054%
193	12.449	12.442	12.455	VV	344	2524	0.06%	0.022%
194	12.508	12.455	12.535	VV	629	21769	0.49%	0.187%

rteres

195	12.558	12.535	12.605	VV	1136	22155	0.50%	0.190%
196	12.635	12.605	12.662	VV	1408	21169	0.47%	0.182%
197	12.695	12.662	12.746	VV	3412	46726	1.05%	0.402%
198	12.781	12.746	12.805	VV	650	14778	0.33%	0.127%
199	12.814	12.805	12.891	VV	314	7666	0.17%	0.066%
200	12.904	12.891	12.921	VV	163	2040	0.05%	0.018%
201	12.967	12.921	12.975	VV	308	6362	0.14%	0.055%
202	12.981	12.975	13.007	VV	271	3690	0.08%	0.032%
203	13.019	13.007	13.040	VV	278	3402	0.08%	0.029%
204	13.060	13.040	13.078	VV	451	6654	0.15%	0.057%
205	13.145	13.078	13.181	VV	373032	4467046	100.00%	38.395%
206	13.202	13.181	13.228	VV	369	8124	0.18%	0.070%
207	13.308	13.228	13.345	VV	891	26532	0.59%	0.228%
208	13.362	13.345	13.415	VV	505	16070	0.36%	0.138%
209	13.432	13.415	13.460	VV	343	8234	0.18%	0.071%
210	13.519	13.460	13.555	VV	399	18334	0.41%	0.158%
211	13.584	13.555	13.625	VV	465	15374	0.34%	0.132%
212	13.649	13.625	13.671	VV	338	7691	0.17%	0.066%
213	13.746	13.671	13.788	VV	499	23674	0.53%	0.203%
214	13.843	13.788	13.866	VV	1676	29259	0.66%	0.251%
215	13.895	13.866	14.052	VV	3163	57436	1.29%	0.494%
216	14.063	14.052	14.089	VV	184	3161	0.07%	0.027%
217	14.115	14.089	14.181	VV	289	13076	0.29%	0.112%
218	14.189	14.181	14.258	VV	265	10086	0.23%	0.087%
219	14.331	14.258	14.378	VV	1800	37768	0.85%	0.325%
220	14.383	14.378	14.427	VV	366	7994	0.18%	0.069%
221	14.457	14.427	14.494	VV	746	15649	0.35%	0.135%
222	14.519	14.494	14.539	VV	267	6067	0.14%	0.052%
223	14.598	14.539	14.637	VV	372	17135	0.38%	0.147%
224	14.656	14.637	14.685	VV	299	6630	0.15%	0.057%
225	14.711	14.685	14.725	VV	298	5468	0.12%	0.047%
226	14.739	14.725	14.771	VV	283	7132	0.16%	0.061%
227	14.780	14.771	14.793	VV	320	3233	0.07%	0.028%
228	14.811	14.793	14.881	VV	348	11727	0.26%	0.101%
229	14.896	14.881	14.911	VV	155	2330	0.05%	0.020%
230	14.953	14.911	14.972	VV	1114	19599	0.44%	0.168%
231	14.998	14.972	15.034	VV	3408	47360	1.06%	0.407%
232	15.044	15.034	15.071	VV	357	4562	0.10%	0.039%
233	15.082	15.071	15.093	VV	127	1067	0.02%	0.009%
234	15.113	15.093	15.150	VV	97	1520	0.03%	0.013%
235	15.176	15.150	15.188	PV	186	2020	0.05%	0.017%
236	15.194	15.188	15.208	VV	130	1427	0.03%	0.012%
237	15.228	15.208	15.238	VV	150	2331	0.05%	0.020%
238	15.257	15.238	15.275	VV	201	2500	0.06%	0.021%
239	15.281	15.275	15.294	VV	114	1054	0.02%	0.009%
240	15.312	15.294	15.325	VV	96	1366	0.03%	0.012%
241	15.376	15.325	15.439	PV	605	16167	0.36%	0.139%
242	15.444	15.439	15.452	VV	175	1196	0.03%	0.010%
243	15.518	15.452	15.559	VV	1724	28675	0.64%	0.246%
244	15.568	15.559	15.610	VV	126	2999	0.07%	0.026%
245	15.637	15.610	15.681	VV	103	3514	0.08%	0.030%
246	15.699	15.681	15.712	VV	191	2633	0.06%	0.023%

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247	15.726	15.712	15.742	VV	148	2283	0.05%	0.020%
248	15.749	15.742	15.800	VV	149	3206	0.07%	0.028%
249	15.848	15.800	15.858	VV	213	5072	0.11%	0.044%
250	15.885	15.858	15.941	VV	229	6417	0.14%	0.055%
251	15.981	15.941	15.995	VV	917	12413	0.28%	0.107%
252	16.020	15.995	16.063	VV	3215	46264	1.04%	0.398%
253	16.082	16.063	16.141	VV	227	4648	0.10%	0.040%
254	16.166	16.141	16.174	PV	92	1044	0.02%	0.009%
255	16.194	16.174	16.215	VV	202	2748	0.06%	0.024%
256	16.234	16.215	16.269	VV	171	3592	0.08%	0.031%
257	16.278	16.269	16.286	VV	46	346	0.01%	0.003%
258	16.337	16.286	16.369	VV	206	5447	0.12%	0.047%
259	16.378	16.369	16.431	VV	153	4322	0.10%	0.037%
260	16.503	16.431	16.569	VV	2163	40352	0.90%	0.347%
261	16.588	16.569	16.628	VV	369	8290	0.19%	0.071%
262	16.705	16.628	16.745	VV	344	18468	0.41%	0.159%
263	16.751	16.745	16.839	VV	258	12037	0.27%	0.103%
264	16.859	16.839	16.894	VV	265	6824	0.15%	0.059%
265	16.937	16.894	16.947	VV	688	11802	0.26%	0.101%
266	16.970	16.947	16.998	VV	2997	42468	0.95%	0.365%
267	17.023	16.998	17.069	VV	570	12814	0.29%	0.110%
268	17.078	17.069	17.103	VV	162	2418	0.05%	0.021%
269	17.119	17.103	17.141	VV	125	2783	0.06%	0.024%
270	17.148	17.141	17.161	VV	219	1122	0.03%	0.010%
271	17.302	17.198	17.331	PV	400	10339	0.23%	0.089%
272	17.344	17.331	17.386	VV	131	2446	0.05%	0.021%
273	17.422	17.386	17.505	VV	2503	37227	0.83%	0.320%
274	17.515	17.505	17.526	VV	114	1119	0.03%	0.010%
275	17.568	17.526	17.583	VV	128	2614	0.06%	0.022%
276	17.593	17.583	17.618	PV	94	1513	0.03%	0.013%
277	17.645	17.618	17.673	VV	199	2752	0.06%	0.024%
278	17.695	17.673	17.730	VV	153	3225	0.07%	0.028%
279	17.860	17.730	17.921	VV	2741	49913	1.12%	0.429%
280	17.949	17.921	17.987	VV	367	6329	0.14%	0.054%
281	18.021	17.987	18.039	VV	186	3339	0.07%	0.029%
282	18.133	18.039	18.162	VV	163	5245	0.12%	0.045%
283	18.178	18.162	18.198	VV	147	2454	0.05%	0.021%
284	18.283	18.198	18.324	VV	2736	48140	1.08%	0.414%
285	18.388	18.324	18.449	VV	289	12318	0.28%	0.106%
286	18.476	18.449	18.488	PV	180	2634	0.06%	0.023%
287	18.551	18.488	18.570	VV	322	9677	0.22%	0.083%
288	18.596	18.570	18.618	VV	240	4694	0.11%	0.040%
289	18.633	18.618	18.646	VV	212	2684	0.06%	0.023%
290	18.693	18.646	18.764	VV	2325	46618	1.04%	0.401%
291	18.795	18.764	18.821	VV	331	7483	0.17%	0.064%
292	18.871	18.821	18.928	VV	220	11175	0.25%	0.096%
293	18.964	18.928	18.984	VV	242	5858	0.13%	0.050%
294	19.091	18.984	19.153	VV	1526	45222	1.01%	0.389%
295	19.202	19.153	19.211	VV	372	10862	0.24%	0.093%
296	19.246	19.211	19.254	VV	410	9193	0.21%	0.079%
297	19.266	19.254	19.302	VV	430	10852	0.24%	0.093%
298	19.335	19.302	19.348	VV	453	10359	0.23%	0.089%
299	19.386	19.348	19.395	VV	465	11672	0.26%	0.100%

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300	19.478	19.395	19.525	VV	2109	60211	1.35%	0.518%
301	19.535	19.525	19.548	VV	520	6807	0.15%	0.059%
302	19.585	19.548	19.608	VV	612	19406	0.43%	0.167%
303	19.723	19.608	19.742	VV	743	48832	1.09%	0.420%
304	19.765	19.742	19.803	VV	823	27082	0.61%	0.233%
305	19.854	19.803	19.879	VV	1472	45142	1.01%	0.388%
306	19.915	19.879	19.931	VV	884	26043	0.58%	0.224%
307	19.960	19.931	19.986	VV	992	31277	0.70%	0.269%
308	20.044	19.986	20.055	VV	1166	42292	0.95%	0.364%
309	20.129	20.055	20.165	VV	1908	90697	2.03%	0.780%
310	20.220	20.165	20.247	VV	2684	88107	1.97%	0.757%
311	20.267	20.247	20.295	VV	1586	43272	0.97%	0.372%
312	20.394	20.295	20.411	VV	1765	113150	2.53%	0.973%
313	20.422	20.411	20.430	VV	1686	19620	0.44%	0.169%
314	20.569	20.430	20.695	VV	5769	455876	10.21%	3.918%
315	20.706	20.695	20.728	VV	1673	33099	0.74%	0.284%
316	20.751	20.728	20.757	VV	1673	29602	0.66%	0.254%
317	20.786	20.757	20.816	VV	1939	61017	1.37%	0.524%
318	20.826	20.816	20.868	VV	1604	48292	1.08%	0.415%
319	20.878	20.868	20.886	VV	1532	15379	0.34%	0.132%
320	20.894	20.886	20.945	VV	1514	50446	1.13%	0.434%
321	20.992	20.945	21.031	VV	2113	86684	1.94%	0.745%
322	21.041	21.031	21.088	VV	1372	44964	1.01%	0.386%
323	21.117	21.088	21.128	VV	1320	29777	0.67%	0.256%
324	21.134	21.128	21.143	VV	1228	10384	0.23%	0.089%
325	21.162	21.143	21.205	VV	1181	42641	0.95%	0.367%
326	21.218	21.205	21.259	VV	1149	35808	0.80%	0.308%
327	21.276	21.259	21.335	VV	1061	45047	1.01%	0.387%
328	21.345	21.335	21.388	VV	1050	30621	0.69%	0.263%
329	21.457	21.388	21.509	VV	1041	64135	1.44%	0.551%
330	21.614	21.509	21.640	VV	811	57255	1.28%	0.492%
331	21.711	21.640	21.732	VV	705	36307	0.81%	0.312%
332	21.749	21.732	21.801	VV	585	22412	0.50%	0.193%
333	21.855	21.801	21.911	VV	536	30660	0.69%	0.264%
334	21.968	21.911	22.105	VV	924	56073	1.26%	0.482%
335	22.183	22.105	22.215	VV	225	11521	0.26%	0.099%
336	22.237	22.215	22.315	VV	193	5489	0.12%	0.047%

Sum of corrected areas: 11634525

Aliphatic EPH 040925.M Fri Apr 11 04:55:41 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049272.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:38
Operator : YP/AJ
Sample : Q1744-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-158-SB01

Integration File: autoint1.e
Quant Time: Apr 11 01:03:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.749	5408441	36.511 ug/ml
Spiked Amount 50.000		Recovery =	73.02%
6) S 2-Flurobiphenyl (SURR)	8.614	3221957	31.587 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	63.17%
11) S ortho-Terphenyl (SURR)	11.658	7248338	41.141 ug/ml
Spiked Amount 50.000		Recovery =	82.28%
Target Compounds			

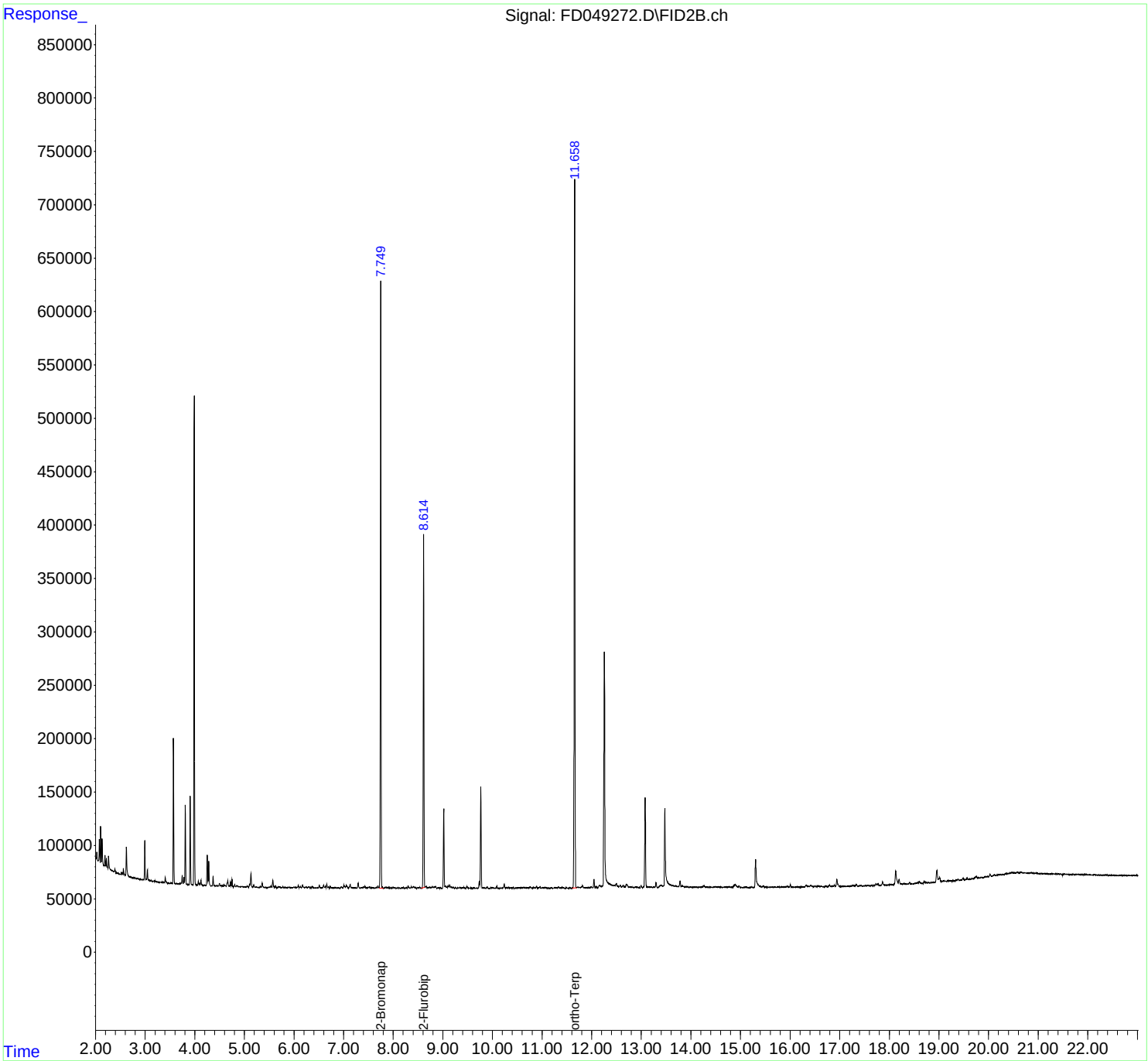
(f)=RT Delta > 1/2 Window (m)=manual int.

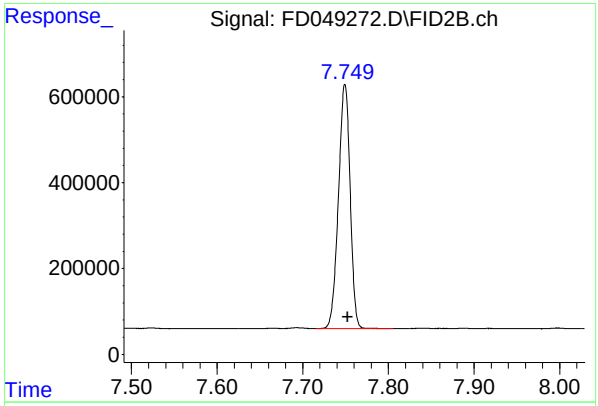
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049272.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:38
Operator : YP/AJ
Sample : Q1744-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-158-SB01

Integration File: autoint1.e
Quant Time: Apr 11 01:03:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

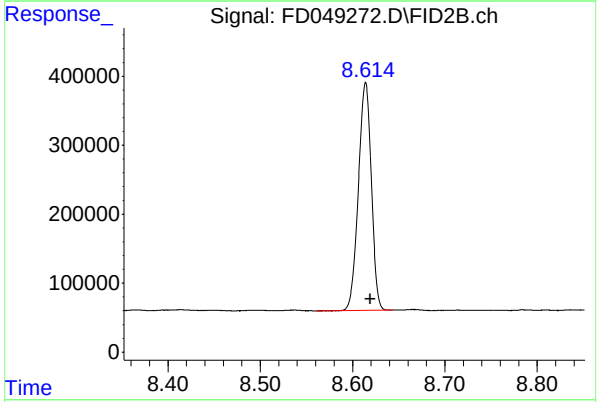




#4 2-Bromonaphthalene (SURR)

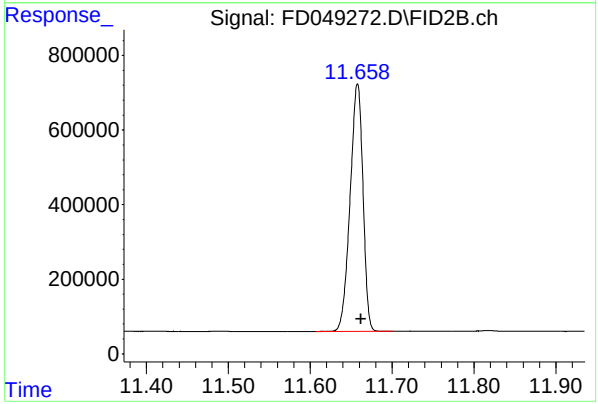
R.T.: 7.749 min
Delta R.T.: -0.003 min
Response: 5408441
Conc: 36.51 ug/ml

Instrument :
FID_D
ClientSampleId :
B-158-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.614 min
Delta R.T.: -0.005 min
Response: 3221957
Conc: 31.59 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.658 min
Delta R.T.: -0.004 min
Response: 7248338
Conc: 41.14 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049272.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:38
Sample : Q1744-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.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	4.072	4.042	4.086	BV	3967	31326	0.43%	0.084%
2	4.096	4.086	4.110	VV	1934	17505	0.24%	0.047%
3	4.125	4.110	4.144	VV	5153	47695	0.66%	0.128%
4	4.150	4.144	4.173	VV	636	5532	0.08%	0.015%
5	4.192	4.173	4.229	PV	906	12538	0.17%	0.034%
6	4.252	4.229	4.268	VV	28785	309323	4.26%	0.832%
7	4.282	4.268	4.327	VV	23072	220342	3.03%	0.593%
8	4.369	4.327	4.415	PV	9237	87313	1.20%	0.235%
9	4.451	4.415	4.467	VV	529	9636	0.13%	0.026%
10	4.471	4.467	4.477	VV	349	2034	0.03%	0.005%
11	4.498	4.477	4.520	VV	2920	32499	0.45%	0.087%
12	4.524	4.520	4.529	VV	571	2582	0.04%	0.007%
13	4.537	4.529	4.552	VV	704	7832	0.11%	0.021%
14	4.564	4.552	4.571	VV	618	4769	0.07%	0.013%
15	4.576	4.571	4.579	VV	493	2135	0.03%	0.006%
16	4.591	4.579	4.603	VV	1396	13663	0.19%	0.037%
17	4.612	4.603	4.634	VV	1115	12826	0.18%	0.034%
18	4.665	4.634	4.688	VV	5380	82006	1.13%	0.221%
19	4.722	4.688	4.736	VV	4649	49007	0.67%	0.132%
20	4.752	4.736	4.786	VV	7081	65394	0.90%	0.176%
21	4.805	4.786	4.827	PV	2215	20680	0.28%	0.056%
22	4.844	4.827	4.859	VV	1398	14575	0.20%	0.039%
23	4.869	4.859	4.902	VV	1042	11002	0.15%	0.030%
24	4.912	4.902	4.926	VV	284	2292	0.03%	0.006%
25	4.941	4.926	4.960	VV	662	7876	0.11%	0.021%
26	4.964	4.960	4.994	VV	352	3841	0.05%	0.010%
27	5.003	4.994	5.010	VV	271	1460	0.02%	0.004%
28	5.018	5.010	5.024	VV	274	1870	0.03%	0.005%
29	5.032	5.024	5.041	VV	277	1898	0.03%	0.005%
30	5.056	5.041	5.080	VV	876	10346	0.14%	0.028%
31	5.105	5.080	5.115	VV	3113	31610	0.44%	0.085%
32	5.132	5.115	5.170	VV	12963	145792	2.01%	0.392%
33	5.190	5.170	5.213	VV	2575	28140	0.39%	0.076%
34	5.218	5.213	5.235	VV	334	3455	0.05%	0.009%
35	5.249	5.235	5.281	VV	569	8089	0.11%	0.022%
36	5.322	5.298	5.344	PV	1023	12820	0.18%	0.034%

rteres

37	5.359	5.344	5.399	VV	4311	46583	0.64%	0.125%
38	5.410	5.399	5.418	VV	329	2447	0.03%	0.007%
39	5.424	5.418	5.432	VV	286	1549	0.02%	0.004%
40	5.435	5.432	5.451	VV	251	1111	0.02%	0.003%
41	5.462	5.451	5.470	PV	311	1441	0.02%	0.004%
42	5.476	5.470	5.482	VV	304	1257	0.02%	0.003%
43	5.498	5.482	5.519	VV	761	8671	0.12%	0.023%
44	5.533	5.519	5.554	VV	1628	16786	0.23%	0.045%
45	5.574	5.554	5.618	VV	7049	91971	1.27%	0.247%
46	5.632	5.618	5.652	VV	1529	15856	0.22%	0.043%
47	5.672	5.652	5.677	VV	416	2789	0.04%	0.008%
48	5.698	5.677	5.709	VV	819	11245	0.15%	0.030%
49	5.715	5.709	5.749	VV	833	8900	0.12%	0.024%
50	5.776	5.749	5.798	VV	1050	11523	0.16%	0.031%
51	5.825	5.810	5.844	VV	663	7952	0.11%	0.021%
52	5.879	5.844	5.901	VV	604	11092	0.15%	0.030%
53	5.907	5.901	5.917	VV	365	2820	0.04%	0.008%
54	5.925	5.917	5.939	VV	483	3748	0.05%	0.010%
55	5.944	5.939	5.953	VV	224	1553	0.02%	0.004%
56	5.962	5.953	5.969	VV	260	1753	0.02%	0.005%
57	5.995	5.969	6.010	VV	784	10364	0.14%	0.028%
58	6.016	6.010	6.020	VV	404	2388	0.03%	0.006%
59	6.031	6.020	6.048	VV	744	7998	0.11%	0.022%
60	6.086	6.048	6.110	VV	2396	34289	0.47%	0.092%
61	6.129	6.110	6.150	VV	1238	17047	0.23%	0.046%
62	6.173	6.150	6.211	VV	2865	37559	0.52%	0.101%
63	6.230	6.211	6.245	VV	905	13408	0.18%	0.036%
64	6.251	6.245	6.273	VV	705	7097	0.10%	0.019%
65	6.306	6.273	6.341	VV	1140	23144	0.32%	0.062%
66	6.366	6.341	6.426	VV	1658	26372	0.36%	0.071%
67	6.442	6.426	6.447	VV	291	2300	0.03%	0.006%
68	6.454	6.447	6.472	VV	316	3675	0.05%	0.010%
69	6.483	6.472	6.489	VV	352	2664	0.04%	0.007%
70	6.512	6.489	6.541	VV	2766	32918	0.45%	0.089%
71	6.558	6.541	6.570	VV	387	5597	0.08%	0.015%
72	6.596	6.570	6.616	VV	2728	36243	0.50%	0.097%
73	6.632	6.616	6.644	VV	1562	17139	0.24%	0.046%
74	6.661	6.644	6.681	VV	3761	40880	0.56%	0.110%
75	6.694	6.681	6.714	VV	1233	13862	0.19%	0.037%
76	6.733	6.714	6.773	VV	1993	24758	0.34%	0.067%
77	6.784	6.773	6.807	VV	430	5013	0.07%	0.013%
78	6.822	6.807	6.827	PV	465	3704	0.05%	0.010%
79	6.833	6.827	6.869	VV	536	8731	0.12%	0.023%
80	6.878	6.869	6.889	VV	386	3482	0.05%	0.009%
81	6.894	6.889	6.897	VV	416	1361	0.02%	0.004%
82	6.901	6.897	6.924	VV	349	4034	0.06%	0.011%
83	6.953	6.932	6.985	VV	1513	22520	0.31%	0.061%
84	7.006	6.985	7.022	VV	3022	38102	0.52%	0.102%
85	7.026	7.022	7.038	VV	1675	13698	0.19%	0.037%
86	7.059	7.038	7.094	VV	2273	50974	0.70%	0.137%
87	7.133	7.094	7.162	VV	3540	55032	0.76%	0.148%
88	7.173	7.162	7.187	VV	524	6041	0.08%	0.016%
89	7.190	7.187	7.210	VV	464	5013	0.07%	0.013%

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90	7.213	7.210	7.225	VV	408	2660	0.04%	0.007%
91	7.243	7.225	7.267	VV	577	8730	0.12%	0.023%
92	7.294	7.267	7.332	VV	5016	61962	0.85%	0.167%
93	7.353	7.332	7.364	VV	998	10475	0.14%	0.028%
94	7.374	7.364	7.384	VV	849	7869	0.11%	0.021%
95	7.400	7.384	7.414	VV	1443	16332	0.22%	0.044%
96	7.431	7.414	7.453	VV	1787	23010	0.32%	0.062%
97	7.468	7.453	7.483	VV	975	11030	0.15%	0.030%
98	7.499	7.483	7.511	VV	1132	13395	0.18%	0.036%
99	7.524	7.511	7.545	VV	1740	17999	0.25%	0.048%
100	7.562	7.545	7.570	VV	311	3074	0.04%	0.008%
101	7.592	7.570	7.620	VV	437	8698	0.12%	0.023%
102	7.664	7.620	7.678	PV	953	16643	0.23%	0.045%
103	7.693	7.678	7.716	VV	2414	28388	0.39%	0.076%
104	7.749	7.716	7.805	VV	570584	5418932	74.58%	14.575%
105	7.815	7.805	7.820	VV	385	2713	0.04%	0.007%
106	7.839	7.820	7.854	VV	983	14578	0.20%	0.039%
107	7.860	7.854	7.875	VV	764	7927	0.11%	0.021%
108	7.886	7.875	7.904	VV	1021	11169	0.15%	0.030%
109	7.917	7.904	7.934	VV	752	8912	0.12%	0.024%
110	7.939	7.934	7.942	VV	345	1276	0.02%	0.003%
111	7.953	7.942	7.979	VV	574	6806	0.09%	0.018%
112	7.998	7.979	8.011	VV	1479	15622	0.21%	0.042%
113	8.017	8.011	8.043	VV	618	7954	0.11%	0.021%
114	8.050	8.043	8.069	VV	438	3733	0.05%	0.010%
115	8.092	8.069	8.118	VV	730	11200	0.15%	0.030%
116	8.124	8.118	8.134	VV	346	2134	0.03%	0.006%
117	8.141	8.134	8.145	VV	243	1241	0.02%	0.003%
118	8.150	8.145	8.169	VV	300	2700	0.04%	0.007%
119	8.173	8.169	8.183	VV	309	1774	0.02%	0.005%
120	8.204	8.183	8.223	VV	683	10166	0.14%	0.027%
121	8.232	8.223	8.240	VV	341	2585	0.04%	0.007%
122	8.251	8.240	8.277	VV	510	6661	0.09%	0.018%
123	8.300	8.277	8.319	VV	2404	28275	0.39%	0.076%
124	8.332	8.319	8.347	VV	504	6021	0.08%	0.016%
125	8.366	8.347	8.384	VV	1455	17886	0.25%	0.048%
126	8.414	8.384	8.435	VV	1633	34250	0.47%	0.092%
127	8.450	8.435	8.472	VV	851	12264	0.17%	0.033%
128	8.493	8.472	8.520	PV	1030	16613	0.23%	0.045%
129	8.538	8.520	8.560	VV	1197	14971	0.21%	0.040%
130	8.614	8.560	8.644	VV	331126	3252403	44.76%	8.748%
131	8.666	8.644	8.686	VV	2087	35015	0.48%	0.094%
132	8.714	8.686	8.733	VV	1173	23943	0.33%	0.064%
133	8.738	8.733	8.748	VV	1043	8640	0.12%	0.023%
134	8.758	8.748	8.771	VV	1079	11993	0.17%	0.032%
135	8.785	8.771	8.799	VV	1625	19593	0.27%	0.053%
136	8.809	8.799	8.823	VV	1356	15348	0.21%	0.041%
137	8.836	8.823	8.847	VV	1537	17175	0.24%	0.046%
138	8.858	8.847	8.880	VV	1999	21486	0.30%	0.058%
139	8.901	8.880	8.935	VV	1007	16267	0.22%	0.044%
140	8.954	8.935	8.968	VV	974	10204	0.14%	0.027%
141	8.975	8.968	8.980	VV	366	2001	0.03%	0.005%

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142	9.020	8.980	9.042	VV	74825	740119	10.19%	1.991%
143	9.055	9.042	9.070	VV	2343	30279	0.42%	0.081%
144	9.075	9.070	9.091	VV	1471	14723	0.20%	0.040%
145	9.105	9.091	9.125	VV	2264	35057	0.48%	0.094%
146	9.138	9.125	9.161	VV	3297	45662	0.63%	0.123%
147	9.173	9.161	9.193	VV	1698	21160	0.29%	0.057%
148	9.208	9.193	9.232	VV	1103	15744	0.22%	0.042%
149	9.252	9.232	9.282	VV	732	12176	0.17%	0.033%
150	9.311	9.282	9.325	VV	658	10600	0.15%	0.029%
151	9.342	9.325	9.379	VV	1152	19214	0.26%	0.052%
152	9.402	9.379	9.413	VV	992	11610	0.16%	0.031%
153	9.426	9.413	9.439	VV	906	8685	0.12%	0.023%
154	9.448	9.439	9.464	VV	371	4530	0.06%	0.012%
155	9.487	9.464	9.530	VV	2020	33284	0.46%	0.090%
156	9.567	9.530	9.602	VV	514	11608	0.16%	0.031%
157	9.622	9.602	9.647	PV	901	11594	0.16%	0.031%
158	9.652	9.647	9.658	VV	209	1054	0.01%	0.003%
159	9.684	9.664	9.712	VV	457	9631	0.13%	0.026%
160	9.736	9.712	9.746	VV	6716	71419	0.98%	0.192%
161	9.767	9.746	9.799	VV	95149	980560	13.49%	2.637%
162	9.817	9.799	9.827	VV	671	8680	0.12%	0.023%
163	9.835	9.827	9.857	VV	685	7495	0.10%	0.020%
164	9.863	9.857	9.870	VV	250	1758	0.02%	0.005%
165	9.874	9.870	9.878	VV	307	1304	0.02%	0.004%
166	9.894	9.878	9.927	VV	1527	20010	0.28%	0.054%
167	9.972	9.939	9.987	VV	800	13345	0.18%	0.036%
168	9.995	9.987	10.032	VV	837	12405	0.17%	0.033%
169	10.037	10.032	10.046	VV	387	2284	0.03%	0.006%
170	10.066	10.046	10.072	VV	472	5304	0.07%	0.014%
171	10.091	10.072	10.121	VV	1962	23288	0.32%	0.063%
172	10.127	10.121	10.134	VV	211	1198	0.02%	0.003%
173	10.172	10.145	10.186	VV	408	4892	0.07%	0.013%
174	10.239	10.186	10.270	VV	4193	63438	0.87%	0.171%
175	10.288	10.270	10.304	VV	883	12274	0.17%	0.033%
176	10.325	10.304	10.345	VV	925	15057	0.21%	0.040%
177	10.357	10.345	10.365	VV	550	5848	0.08%	0.016%
178	10.369	10.365	10.389	VV	567	6363	0.09%	0.017%
179	10.394	10.389	10.403	VV	395	2748	0.04%	0.007%
180	10.421	10.403	10.435	VV	1173	14028	0.19%	0.038%
181	10.442	10.435	10.445	VV	296	1637	0.02%	0.004%
182	10.453	10.445	10.467	VV	404	3479	0.05%	0.009%
183	10.497	10.467	10.506	VV	810	11321	0.16%	0.030%
184	10.517	10.506	10.527	VV	751	7546	0.10%	0.020%
185	10.533	10.527	10.539	VV	779	4551	0.06%	0.012%
186	10.542	10.539	10.547	VV	562	2406	0.03%	0.006%
187	10.554	10.547	10.563	VV	526	3920	0.05%	0.011%
188	10.580	10.563	10.596	VV	665	8787	0.12%	0.024%
189	10.626	10.596	10.643	VV	1108	20377	0.28%	0.055%
190	10.649	10.643	10.670	VV	813	8778	0.12%	0.024%
191	10.689	10.670	10.704	VV	605	9266	0.13%	0.025%
192	10.711	10.704	10.717	VV	554	3951	0.05%	0.011%
193	10.722	10.717	10.734	VV	628	5473	0.08%	0.015%
194	10.762	10.734	10.786	VV	1626	29405	0.40%	0.079%

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195	10.792	10.786	10.797	VV	482	2401	0.03%	0.006%
196	10.831	10.797	10.865	VV	730	20101	0.28%	0.054%
197	10.886	10.865	10.907	VV	1692	22718	0.31%	0.061%
198	10.911	10.907	10.927	VV	356	4460	0.06%	0.012%
199	10.957	10.927	10.979	VV	1309	25266	0.35%	0.068%
200	11.002	10.979	11.013	VV	540	7652	0.11%	0.021%
201	11.046	11.013	11.074	VV	894	20285	0.28%	0.055%
202	11.086	11.074	11.100	VV	772	8820	0.12%	0.024%
203	11.112	11.100	11.138	VV	476	7219	0.10%	0.019%
204	11.147	11.138	11.163	VV	286	3610	0.05%	0.010%
205	11.168	11.163	11.179	VV	333	2477	0.03%	0.007%
206	11.194	11.179	11.214	VV	344	5425	0.07%	0.015%
207	11.220	11.214	11.226	VV	308	1935	0.03%	0.005%
208	11.260	11.226	11.289	VV	889	17529	0.24%	0.047%
209	11.331	11.289	11.358	VV	1544	25458	0.35%	0.068%
210	11.379	11.358	11.393	VV	549	8070	0.11%	0.022%
211	11.412	11.393	11.436	VV	919	15291	0.21%	0.041%
212	11.442	11.436	11.457	VV	385	3075	0.04%	0.008%
213	11.462	11.457	11.469	VV	229	1363	0.02%	0.004%
214	11.492	11.473	11.518	VV	993	12567	0.17%	0.034%
215	11.523	11.518	11.548	VV	289	3255	0.04%	0.009%
216	11.554	11.548	11.561	PV	224	1161	0.02%	0.003%
217	11.570	11.561	11.586	VV	293	2527	0.03%	0.007%
218	11.596	11.586	11.602	VV	176	1256	0.02%	0.003%
219	11.658	11.602	11.701	VV	665751	7266188	100.00%	19.544%
220	11.722	11.701	11.742	VV	1158	20093	0.28%	0.054%
221	11.747	11.742	11.755	VV	914	6450	0.09%	0.017%
222	11.766	11.755	11.774	VV	864	8751	0.12%	0.024%
223	11.793	11.774	11.798	VV	1094	13310	0.18%	0.036%
224	11.818	11.798	11.852	VV	2689	43010	0.59%	0.116%
225	11.866	11.852	11.871	VV	594	5854	0.08%	0.016%
226	11.876	11.871	11.894	VV	679	7220	0.10%	0.019%
227	11.897	11.894	11.904	VV	455	2661	0.04%	0.007%
228	11.928	11.912	11.947	VV	756	10543	0.15%	0.028%
229	11.990	11.947	12.020	VV	1269	32909	0.45%	0.089%
230	12.049	12.020	12.073	VV	8220	99554	1.37%	0.268%
231	12.092	12.073	12.120	VV	1683	25967	0.36%	0.070%
232	12.163	12.120	12.188	VV	2672	71270	0.98%	0.192%
233	12.257	12.188	12.349	VV	221313	3097393	42.63%	8.331%
234	12.354	12.349	12.416	VV	4148	133830	1.84%	0.360%
235	12.422	12.416	12.460	VV	2778	65552	0.90%	0.176%
236	12.499	12.460	12.528	VV	4490	116365	1.60%	0.313%
237	12.535	12.528	12.547	VV	1585	17021	0.23%	0.046%
238	12.574	12.547	12.599	VV	2632	60028	0.83%	0.161%
239	12.634	12.599	12.660	VV	2811	63557	0.87%	0.171%
240	12.700	12.660	12.715	VV	3604	71047	0.98%	0.191%
241	12.720	12.715	12.749	VV	2925	37074	0.51%	0.100%
242	12.760	12.749	12.775	VV	1055	15524	0.21%	0.042%
243	12.781	12.775	12.823	VV	1060	23125	0.32%	0.062%
244	12.830	12.823	12.837	VV	923	6162	0.08%	0.017%
245	12.841	12.837	12.865	VV	705	10142	0.14%	0.027%
246	12.872	12.865	12.880	VV	773	6437	0.09%	0.017%

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247	12.898	12.880	12.928	VV	1135	24173	0.33%	0.065%
248	12.934	12.928	12.973	VV	692	14392	0.20%	0.039%
249	12.996	12.973	13.030	VV	2399	36960	0.51%	0.099%
250	13.079	13.030	13.113	VV	84386	997149	13.72%	2.682%
251	13.135	13.113	13.151	VV	1014	19601	0.27%	0.053%
252	13.165	13.151	13.187	VV	968	18305	0.25%	0.049%
253	13.193	13.187	13.219	VV	916	14685	0.20%	0.039%
254	13.241	13.219	13.251	VV	926	13466	0.19%	0.036%
255	13.267	13.251	13.277	VV	892	12473	0.17%	0.034%
256	13.297	13.277	13.345	VV	4923	73583	1.01%	0.198%
257	13.393	13.345	13.435	VV	2525	103136	1.42%	0.277%
258	13.477	13.435	13.572	VV	74701	1139592	15.68%	3.065%
259	13.578	13.572	13.599	VV	3258	47095	0.65%	0.127%
260	13.602	13.599	13.635	VV	2827	51326	0.71%	0.138%
261	13.652	13.635	13.666	VV	2192	37098	0.51%	0.100%
262	13.677	13.666	13.692	VV	1950	28261	0.39%	0.076%
263	13.696	13.692	13.699	VV	1903	8104	0.11%	0.022%
264	13.702	13.699	13.722	VV	1880	21246	0.29%	0.057%
265	13.726	13.722	13.737	VV	1340	11489	0.16%	0.031%
266	13.781	13.737	13.808	VV	6483	116942	1.61%	0.315%
267	13.829	13.808	13.869	VV	2224	54988	0.76%	0.148%
268	13.892	13.869	13.909	VV	1096	23643	0.33%	0.064%
269	13.911	13.909	13.914	VV	1113	3262	0.04%	0.009%
270	13.935	13.914	13.964	VV	1236	30315	0.42%	0.082%
271	13.969	13.964	13.984	VV	813	8499	0.12%	0.023%
272	13.986	13.984	13.993	VV	775	3947	0.05%	0.011%
273	14.000	13.993	14.013	VV	767	7766	0.11%	0.021%
274	14.023	14.013	14.028	VV	783	5798	0.08%	0.016%
275	14.041	14.028	14.078	VV	940	21437	0.30%	0.058%
276	14.091	14.078	14.108	VV	760	10504	0.14%	0.028%
277	14.121	14.108	14.126	VV	760	6423	0.09%	0.017%
278	14.129	14.126	14.151	VV	703	7587	0.10%	0.020%
279	14.182	14.151	14.202	VV	853	19941	0.27%	0.054%
280	14.261	14.202	14.287	VV	2378	61981	0.85%	0.167%
281	14.291	14.287	14.299	VV	736	5235	0.07%	0.014%
282	14.310	14.299	14.345	VV	966	18602	0.26%	0.050%
283	14.350	14.345	14.376	VV	675	10154	0.14%	0.027%
284	14.386	14.376	14.409	VV	686	11777	0.16%	0.032%
285	14.417	14.409	14.447	VV	688	10474	0.14%	0.028%
286	14.472	14.447	14.483	VV	1027	16990	0.23%	0.046%
287	14.490	14.483	14.515	VV	1194	15827	0.22%	0.043%
288	14.522	14.515	14.529	VV	823	6226	0.09%	0.017%
289	14.554	14.529	14.572	VV	858	19046	0.26%	0.051%
290	14.586	14.572	14.592	VV	694	6985	0.10%	0.019%
291	14.594	14.592	14.622	VV	840	9702	0.13%	0.026%
292	14.626	14.622	14.633	VV	442	2435	0.03%	0.007%
293	14.639	14.633	14.643	VV	443	2507	0.03%	0.007%
294	14.655	14.643	14.665	VV	584	6081	0.08%	0.016%
295	14.677	14.665	14.692	VV	624	8053	0.11%	0.022%
296	14.730	14.692	14.739	VV	737	17649	0.24%	0.047%
297	14.745	14.739	14.754	VV	826	5848	0.08%	0.016%
298	14.768	14.754	14.795	VV	875	15428	0.21%	0.041%
299	14.799	14.795	14.805	VV	553	3051	0.04%	0.008%

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300	14.814	14.805	14.840	VV	556	9706	0.13%	0.026%
301	14.863	14.840	14.872	VV	1976	23292	0.32%	0.063%
302	14.889	14.872	14.919	VV	2979	66773	0.92%	0.180%
303	14.927	14.919	14.950	VV	1631	20430	0.28%	0.055%
304	14.972	14.950	15.007	VV	1779	26930	0.37%	0.072%
305	15.018	15.007	15.044	VV	425	6461	0.09%	0.017%
306	15.048	15.044	15.055	VV	273	1646	0.02%	0.004%
307	15.075	15.055	15.085	VV	334	5061	0.07%	0.014%
308	15.102	15.085	15.122	VV	634	9788	0.13%	0.026%
309	15.127	15.122	15.150	VV	482	5509	0.08%	0.015%
310	15.154	15.150	15.161	VV	335	1614	0.02%	0.004%
311	15.167	15.161	15.180	VV	205	1675	0.02%	0.005%
312	15.206	15.180	15.221	VV	458	7584	0.10%	0.020%
313	15.234	15.221	15.249	VV	433	4400	0.06%	0.012%
314	15.252	15.249	15.267	VV	232	1351	0.02%	0.004%
315	15.303	15.267	15.431	PV	26597	499930	6.88%	1.345%
316	15.464	15.431	15.554	VV	1880	53757	0.74%	0.145%
317	15.577	15.554	15.586	PV	448	5412	0.07%	0.015%
318	15.598	15.586	15.612	VV	351	4648	0.06%	0.013%
319	15.619	15.612	15.632	VV	401	3650	0.05%	0.010%
320	15.637	15.632	15.642	VV	393	1930	0.03%	0.005%
321	15.650	15.642	15.658	VV	457	3306	0.05%	0.009%
322	15.661	15.658	15.674	VV	346	3063	0.04%	0.008%
323	15.688	15.674	15.709	VV	504	7014	0.10%	0.019%
324	15.714	15.709	15.729	VV	317	2599	0.04%	0.007%
325	15.749	15.729	15.798	VV	658	16155	0.22%	0.043%
326	15.834	15.798	15.840	VV	690	10832	0.15%	0.029%
327	15.844	15.840	15.875	VV	636	10220	0.14%	0.027%
328	15.879	15.875	15.889	VV	471	3393	0.05%	0.009%
329	15.908	15.889	15.923	VV	733	11238	0.15%	0.030%
330	15.944	15.923	15.983	VV	1203	22530	0.31%	0.061%
331	16.005	15.983	16.035	VV	2209	29574	0.41%	0.080%
332	16.047	16.035	16.052	VV	365	2054	0.03%	0.006%
333	16.057	16.052	16.065	VV	255	1289	0.02%	0.003%
334	16.110	16.065	16.116	VV	329	3124	0.04%	0.008%
335	16.138	16.116	16.152	VV	588	7249	0.10%	0.019%
336	16.167	16.152	16.192	VV	279	4263	0.06%	0.011%
337	16.197	16.192	16.212	VV	286	1914	0.03%	0.005%
338	16.240	16.223	16.265	VV	211	3024	0.04%	0.008%
339	16.281	16.265	16.289	PV	318	2569	0.04%	0.007%
340	16.319	16.289	16.362	VV	1873	47061	0.65%	0.127%
341	16.367	16.362	16.380	VV	754	7366	0.10%	0.020%
342	16.384	16.380	16.390	VV	742	3705	0.05%	0.010%
343	16.416	16.390	16.431	VV	1730	30226	0.42%	0.081%
344	16.440	16.431	16.473	VV	1200	17032	0.23%	0.046%
345	16.507	16.473	16.533	VV	924	18192	0.25%	0.049%
346	16.563	16.533	16.592	VV	1228	23882	0.33%	0.064%
347	16.622	16.592	16.643	VV	569	14583	0.20%	0.039%
348	16.647	16.643	16.653	VV	360	2026	0.03%	0.005%
349	16.662	16.653	16.688	VV	352	4695	0.06%	0.013%
350	16.695	16.688	16.707	PV	239	1543	0.02%	0.004%
351	16.731	16.707	16.762	VV	855	13592	0.19%	0.037%

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352	16.791	16.762	16.835	VV	1551	33799	0.47%	0.091%
353	16.855	16.835	16.868	VV	830	12679	0.17%	0.034%
354	16.890	16.868	16.911	VV	1462	21759	0.30%	0.059%
355	16.941	16.911	17.021	VV	6973	126925	1.75%	0.341%
356	17.026	17.021	17.057	VV	385	4312	0.06%	0.012%
357	17.081	17.066	17.096	VV	391	4649	0.06%	0.013%
358	17.129	17.108	17.137	PV	194	1400	0.02%	0.004%
359	17.165	17.137	17.174	VV	276	4610	0.06%	0.012%
360	17.179	17.174	17.204	VV	425	3000	0.04%	0.008%
361	17.261	17.204	17.271	VV	898	17898	0.25%	0.048%
362	17.280	17.271	17.305	VV	780	12247	0.17%	0.033%
363	17.335	17.305	17.364	VV	1982	32614	0.45%	0.088%
364	17.367	17.364	17.380	VV	164	1012	0.01%	0.003%
365	17.422	17.380	17.467	VV	573	16682	0.23%	0.045%
366	17.489	17.467	17.495	PV	379	3343	0.05%	0.009%
367	17.503	17.495	17.544	VV	428	7439	0.10%	0.020%
368	17.559	17.544	17.565	VV	438	4043	0.06%	0.011%
369	17.572	17.565	17.597	VV	489	5768	0.08%	0.016%
370	17.612	17.597	17.626	PV	331	3947	0.05%	0.011%
371	17.638	17.626	17.651	VV	347	4163	0.06%	0.011%
372	17.654	17.651	17.664	VV	272	1708	0.02%	0.005%
373	17.669	17.664	17.680	VV	169	1220	0.02%	0.003%
374	17.730	17.680	17.754	PV	1903	36620	0.50%	0.098%
375	17.774	17.754	17.799	VV	1699	27147	0.37%	0.073%
376	17.824	17.809	17.835	VV	373	3269	0.04%	0.009%
377	17.863	17.835	17.884	VV	3507	47311	0.65%	0.127%
378	17.890	17.884	17.897	VV	677	4369	0.06%	0.012%
379	17.900	17.897	17.919	VV	537	3516	0.05%	0.009%
380	17.936	17.919	17.947	VV	300	2419	0.03%	0.007%
381	17.959	17.947	17.972	PV	332	2703	0.04%	0.007%
382	17.975	17.972	17.979	VV	292	1047	0.01%	0.003%
383	18.012	17.979	18.038	VV	656	13230	0.18%	0.036%
384	18.057	18.038	18.083	VV	593	10576	0.15%	0.028%
385	18.128	18.083	18.175	VV	13309	270369	3.72%	0.727%
386	18.194	18.175	18.247	VV	5175	97065	1.34%	0.261%
387	18.253	18.247	18.270	VV	588	6395	0.09%	0.017%
388	18.291	18.270	18.307	VV	1063	16679	0.23%	0.045%
389	18.312	18.307	18.331	VV	641	6276	0.09%	0.017%
390	18.340	18.331	18.351	VV	444	4289	0.06%	0.012%
391	18.357	18.351	18.376	VV	300	3822	0.05%	0.010%
392	18.405	18.376	18.426	VV	1682	24663	0.34%	0.066%
393	18.433	18.426	18.438	VV	461	2457	0.03%	0.007%
394	18.448	18.438	18.485	VV	594	8501	0.12%	0.023%
395	18.536	18.485	18.552	VV	806	18003	0.25%	0.048%
396	18.600	18.552	18.649	VV	2167	57930	0.80%	0.156%
397	18.652	18.649	18.659	VV	336	1320	0.02%	0.004%
398	18.667	18.659	18.677	VV	343	2880	0.04%	0.008%
399	18.703	18.677	18.737	VV	2348	47713	0.66%	0.128%
400	18.779	18.737	18.802	VV	730	25232	0.35%	0.068%
401	18.811	18.802	18.839	VV	721	12781	0.18%	0.034%
402	18.861	18.839	18.869	VV	605	9258	0.13%	0.025%
403	18.877	18.869	18.890	VV	565	5643	0.08%	0.015%
404	18.900	18.890	18.907	VV	458	4398	0.06%	0.012%

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405	18.915	18.907	18.923	VV	566	4612	0.06%	0.012%
406	18.957	18.923	18.985	VV	11717	219027	3.01%	0.589%
407	19.009	18.985	19.061	VV	4689	130454	1.80%	0.351%
408	19.099	19.061	19.126	VV	1894	59319	0.82%	0.160%
409	19.132	19.126	19.150	VV	1580	19073	0.26%	0.051%
410	19.177	19.150	19.212	VV	1563	49541	0.68%	0.133%
411	19.222	19.212	19.234	VV	1272	15730	0.22%	0.042%
412	19.248	19.234	19.254	VV	1645	16401	0.23%	0.044%
413	19.260	19.254	19.267	VV	1366	8763	0.12%	0.024%
414	19.287	19.267	19.312	VV	1471	33776	0.46%	0.091%
415	19.321	19.312	19.330	VV	1334	14270	0.20%	0.038%
416	19.385	19.330	19.411	VV	2814	88693	1.22%	0.239%
417	19.428	19.411	19.433	VV	1656	20658	0.28%	0.056%
418	19.442	19.433	19.446	VV	1649	12424	0.17%	0.033%
419	19.490	19.446	19.522	VV	3264	101033	1.39%	0.272%
420	19.562	19.522	19.589	VV	2996	87906	1.21%	0.236%
421	19.608	19.589	19.612	VV	2159	28855	0.40%	0.078%
422	19.653	19.612	19.660	VV	2252	58939	0.81%	0.159%
423	19.675	19.660	19.700	VV	2503	53689	0.74%	0.144%
424	19.725	19.700	19.731	VV	3384	54421	0.75%	0.146%
425	19.754	19.731	19.780	VV	4237	103616	1.43%	0.279%
426	19.792	19.780	19.808	VV	2929	46184	0.64%	0.124%
427	19.811	19.808	19.826	VV	2812	29688	0.41%	0.080%
428	19.856	19.826	19.882	VV	3340	101646	1.40%	0.273%
429	19.937	19.882	19.958	VV	3714	148163	2.04%	0.399%
430	19.983	19.958	19.997	VV	3800	85351	1.17%	0.230%
431	20.030	19.997	20.055	VV	5820	156524	2.15%	0.421%
432	20.084	20.055	20.088	VV	4067	75579	1.04%	0.203%
433	20.115	20.088	20.150	VV	5084	166549	2.29%	0.448%
434	20.178	20.150	20.184	VV	4828	92150	1.27%	0.248%
435	20.232	20.184	20.267	VV	5126	241727	3.33%	0.650%
436	20.317	20.267	20.330	VV	5195	191463	2.63%	0.515%
437	20.353	20.330	20.383	VV	5654	171381	2.36%	0.461%
438	20.388	20.383	20.395	VV	5499	41052	0.56%	0.110%
439	20.461	20.395	20.465	VV	6392	245346	3.38%	0.660%
440	20.473	20.465	20.489	VV	6453	92566	1.27%	0.249%
441	20.493	20.489	20.508	VV	6308	68334	0.94%	0.184%
442	20.517	20.508	20.527	VV	6090	69643	0.96%	0.187%
443	20.531	20.527	20.551	VV	5966	84764	1.17%	0.228%
444	20.583	20.551	20.596	VV	6388	165246	2.27%	0.444%
445	20.601	20.596	20.613	VV	5998	61169	0.84%	0.165%
446	20.621	20.613	20.623	VV	5900	35852	0.49%	0.096%
447	20.659	20.623	20.699	VV	6380	267281	3.68%	0.719%
448	20.703	20.699	20.711	VV	5466	38414	0.53%	0.103%
449	20.728	20.711	20.744	VV	5608	109614	1.51%	0.295%
450	20.749	20.744	20.753	VV	5345	27257	0.38%	0.073%
451	20.756	20.753	20.764	VV	5307	34668	0.48%	0.093%
452	20.775	20.764	20.792	VV	5273	87145	1.20%	0.234%
453	20.797	20.792	20.810	VV	5185	55333	0.76%	0.149%
454	20.860	20.810	20.887	VV	5444	235690	3.24%	0.634%
455	20.892	20.887	20.928	VV	4858	116259	1.60%	0.313%
456	20.940	20.928	20.950	VV	4646	58919	0.81%	0.158%

rteres

457	20.961	20.950	21.009	VV	4660	157276	2.16%	0.423%
458	21.014	21.009	21.021	VV	4241	30107	0.41%	0.081%
459	21.026	21.021	21.047	VV	4125	64005	0.88%	0.172%
460	21.054	21.047	21.062	VV	4086	35310	0.49%	0.095%
461	21.067	21.062	21.085	VV	4041	53868	0.74%	0.145%
462	21.094	21.085	21.098	VV	3986	32686	0.45%	0.088%
463	21.112	21.098	21.117	VV	4039	44479	0.61%	0.120%
464	21.120	21.117	21.129	VV	3992	26622	0.37%	0.072%
465	21.136	21.129	21.154	VV	3929	56557	0.78%	0.152%
466	21.158	21.154	21.172	VV	3882	41592	0.57%	0.112%
467	21.183	21.172	21.219	VV	3798	100126	1.38%	0.269%
468	21.224	21.219	21.227	VV	3309	15352	0.21%	0.041%
469	21.231	21.227	21.242	VV	3364	29330	0.40%	0.079%
470	21.248	21.242	21.257	VV	3199	27635	0.38%	0.074%
471	21.282	21.257	21.301	VV	3534	88023	1.21%	0.237%
472	21.305	21.301	21.339	VV	3362	70994	0.98%	0.191%
473	21.341	21.339	21.343	VV	3016	8630	0.12%	0.023%
474	21.352	21.343	21.365	VV	3157	37919	0.52%	0.102%
475	21.370	21.365	21.377	VV	3127	22162	0.30%	0.060%
476	21.382	21.377	21.393	VV	2951	26560	0.37%	0.071%
477	21.417	21.393	21.427	VV	2908	56494	0.78%	0.152%
478	21.432	21.427	21.445	VV	2787	30852	0.42%	0.083%
479	21.448	21.445	21.485	VV	2663	59166	0.81%	0.159%
480	21.492	21.485	21.496	VV	2277	13765	0.19%	0.037%
481	21.538	21.496	21.565	VV	2490	94831	1.31%	0.255%
482	21.579	21.565	21.587	VV	2282	28403	0.39%	0.076%
483	21.592	21.587	21.620	VV	2166	40391	0.56%	0.109%
484	21.627	21.620	21.632	VV	1992	12974	0.18%	0.035%
485	21.637	21.632	21.670	VV	1941	41526	0.57%	0.112%
486	21.676	21.670	21.684	VV	1924	15123	0.21%	0.041%
487	21.706	21.684	21.715	VV	1945	33739	0.46%	0.091%
488	21.720	21.715	21.731	VV	1787	15517	0.21%	0.042%
489	21.739	21.731	21.744	VV	1749	12915	0.18%	0.035%
490	21.749	21.744	21.766	VV	1816	22017	0.30%	0.059%
491	21.778	21.766	21.786	VV	1775	20723	0.29%	0.056%
492	21.794	21.786	21.800	VV	1734	14271	0.20%	0.038%
493	21.803	21.800	21.822	VV	1704	20181	0.28%	0.054%
494	21.826	21.822	21.841	VV	1602	17544	0.24%	0.047%
495	21.858	21.841	21.892	VV	1545	39789	0.55%	0.107%
496	21.914	21.892	21.927	VV	1140	22599	0.31%	0.061%
497	21.932	21.927	21.972	VV	1205	27414	0.38%	0.074%
498	21.976	21.972	21.980	VV	926	4253	0.06%	0.011%
499	21.986	21.980	22.003	VV	1042	10974	0.15%	0.030%
500	22.018	22.003	22.029	VV	811	11223	0.15%	0.030%
501	22.034	22.029	22.039	VV	805	4360	0.06%	0.012%
502	22.048	22.039	22.065	VV	801	10519	0.14%	0.028%
503	22.071	22.065	22.082	VV	581	5212	0.07%	0.014%
504	22.087	22.082	22.090	VV	509	2603	0.04%	0.007%
505	22.095	22.090	22.111	VV	627	6008	0.08%	0.016%
506	22.142	22.111	22.188	VV	504	15791	0.22%	0.042%

Sum of corrected areas: 37178901

rteres
Aromatic EPH 040725.M Fri Apr 11 01:38:29 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068564.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 00:05
Operator : YP/AJ
Sample : Q1744-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-158-SB02

Integration File: autoint1.e
Quant Time: Apr 11 03:47:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.144	2927619	31.516 ug/ml
Spiked Amount 50.000		Recovery = 63.03%	
Target Compounds			

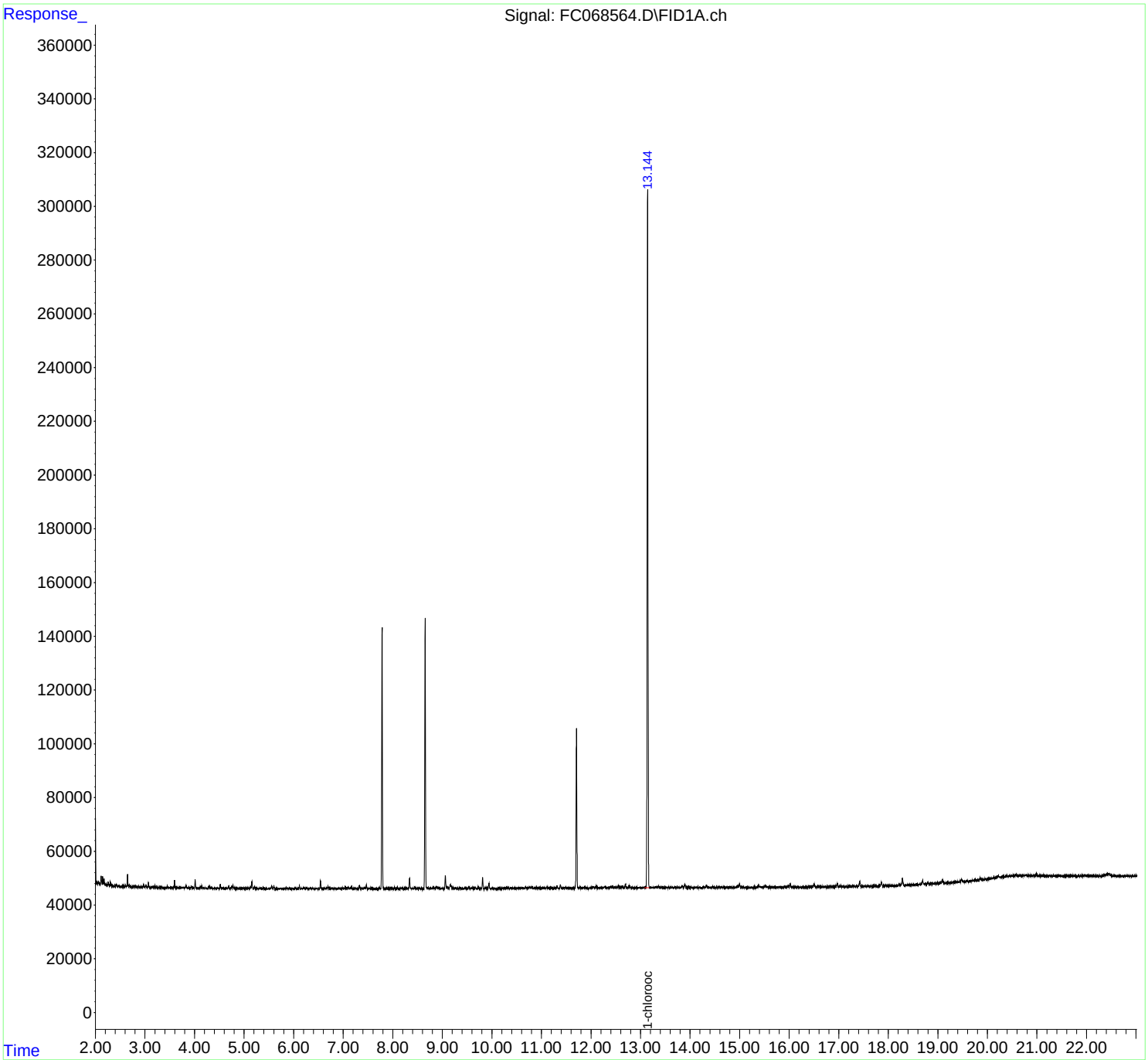
(f)=RT Delta > 1/2 Window (m)=manual int.

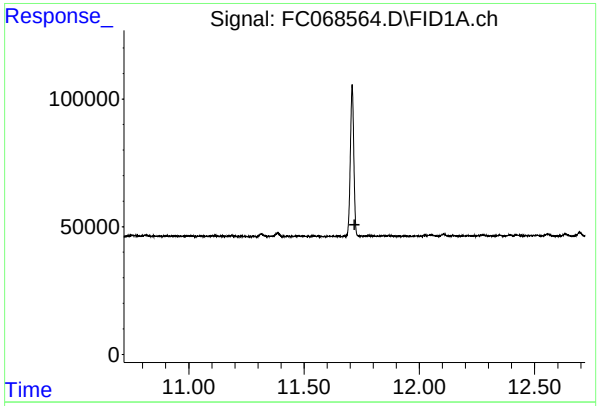
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068564.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 00:05
Operator : YP/AJ
Sample : Q1744-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-158-SB02

Integration File: autoint1.e
Quant Time: Apr 11 03:47:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

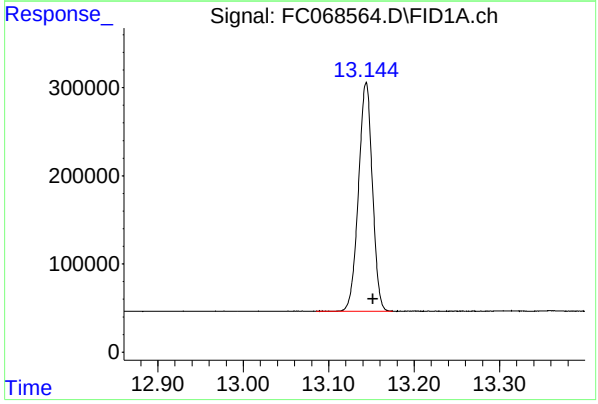




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-158-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.144 min
Delta R.T.: -0.008 min
Response: 2927619
Conc: 31.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068564.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 00:05
Sample : Q1744-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.418	2.371	2.547	BV	743	5372	0.18%	0.056%
2	2.574	2.547	2.594	PV	351	4488	0.15%	0.047%
3	2.605	2.594	2.624	VV	261	3279	0.11%	0.034%
4	2.647	2.624	2.667	VV	4703	38597	1.31%	0.403%
5	2.684	2.667	2.732	VV	694	11239	0.38%	0.117%
6	2.748	2.732	2.759	PV	167	1462	0.05%	0.015%
7	2.779	2.759	2.797	VV	210	3312	0.11%	0.035%
8	2.813	2.797	2.863	VV	267	3842	0.13%	0.040%
9	2.878	2.863	2.934	VV	263	4775	0.16%	0.050%
10	2.969	2.934	3.000	VV	923	14066	0.48%	0.147%
11	3.018	3.000	3.051	VV	965	10651	0.36%	0.111%
12	3.069	3.051	3.092	VV	1897	17211	0.59%	0.180%
13	3.107	3.092	3.128	VV	87	1539	0.05%	0.016%
14	3.148	3.128	3.161	VV	233	2798	0.10%	0.029%
15	3.197	3.161	3.227	VV	616	7636	0.26%	0.080%
16	3.234	3.227	3.247	VV	106	796	0.03%	0.008%
17	3.261	3.247	3.318	VV	162	3032	0.10%	0.032%
18	3.328	3.318	3.341	VV	59	974	0.03%	0.010%
19	3.345	3.341	3.354	VV	109	703	0.02%	0.007%
20	3.361	3.354	3.374	VV	116	1177	0.04%	0.012%
21	3.385	3.374	3.411	VV	107	1513	0.05%	0.016%
22	3.446	3.411	3.465	PV	651	7476	0.25%	0.078%
23	3.476	3.465	3.491	VV	131	1403	0.05%	0.015%
24	3.497	3.491	3.509	VV	112	956	0.03%	0.010%
25	3.547	3.509	3.568	VV	178	3162	0.11%	0.033%
26	3.596	3.568	3.630	VV	2860	25874	0.88%	0.270%
27	3.650	3.630	3.673	VV	149	2672	0.09%	0.028%
28	3.688	3.673	3.698	VV	141	1458	0.05%	0.015%
29	3.721	3.698	3.741	VV	217	3846	0.13%	0.040%
30	3.773	3.741	3.811	VV	377	9706	0.33%	0.101%
31	3.833	3.811	3.875	VV	944	12732	0.43%	0.133%
32	3.890	3.875	3.918	VV	159	2843	0.10%	0.030%
33	3.932	3.918	3.987	VV	499	8773	0.30%	0.092%
34	4.013	3.987	4.082	PV	3125	31195	1.06%	0.326%
35	4.119	4.082	4.134	VV	509	6927	0.24%	0.072%
36	4.147	4.134	4.174	VV	1115	11038	0.38%	0.115%

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37	4.181	4.174	4.198	VV	140	1598	0.05%	0.017%
38	4.216	4.198	4.250	VV	297	4063	0.14%	0.042%
39	4.294	4.250	4.320	VV	694	12628	0.43%	0.132%
40	4.329	4.320	4.352	VV	214	2702	0.09%	0.028%
41	4.389	4.352	4.428	VV	136	3481	0.12%	0.036%
42	4.447	4.428	4.459	VV	142	2178	0.07%	0.023%
43	4.473	4.459	4.496	VV	128	2330	0.08%	0.024%
44	4.520	4.496	4.542	VV	1576	15560	0.53%	0.163%
45	4.552	4.542	4.561	VV	167	1729	0.06%	0.018%
46	4.567	4.561	4.591	VV	252	2033	0.07%	0.021%
47	4.633	4.591	4.652	VV	285	5294	0.18%	0.055%
48	4.689	4.652	4.714	VV	897	12314	0.42%	0.129%
49	4.745	4.714	4.759	VV	861	10065	0.34%	0.105%
50	4.775	4.759	4.800	VV	1381	13700	0.47%	0.143%
51	4.811	4.800	4.821	VV	182	1326	0.05%	0.014%
52	4.828	4.821	4.844	VV	210	1556	0.05%	0.016%
53	4.865	4.844	4.879	VV	140	2762	0.09%	0.029%
54	4.901	4.879	4.919	VV	270	3761	0.13%	0.039%
55	4.939	4.919	4.951	VV	182	2160	0.07%	0.023%
56	4.974	4.951	4.994	VV	244	3431	0.12%	0.036%
57	5.002	4.994	5.041	VV	150	2320	0.08%	0.024%
58	5.080	5.041	5.107	VV	271	4471	0.15%	0.047%
59	5.130	5.107	5.139	VV	637	6514	0.22%	0.068%
60	5.157	5.139	5.188	VV	2812	31157	1.06%	0.325%
61	5.213	5.188	5.231	VV	515	7430	0.25%	0.078%
62	5.241	5.231	5.261	VV	258	2767	0.09%	0.029%
63	5.265	5.261	5.311	VV	187	2073	0.07%	0.022%
64	5.331	5.311	5.371	PV	177	4973	0.17%	0.052%
65	5.383	5.371	5.406	VV	559	5721	0.19%	0.060%
66	5.435	5.406	5.506	VV	136	4492	0.15%	0.047%
67	5.528	5.506	5.540	VV	164	1889	0.06%	0.020%
68	5.560	5.540	5.579	VV	1085	11159	0.38%	0.117%
69	5.601	5.579	5.627	VV	1132	12310	0.42%	0.129%
70	5.657	5.627	5.698	PV	274	4177	0.14%	0.044%
71	5.704	5.698	5.711	VV	74	426	0.01%	0.004%
72	5.750	5.711	5.797	VV	208	5556	0.19%	0.058%
73	5.809	5.797	5.830	VV	106	1589	0.05%	0.017%
74	5.851	5.830	5.882	VV	293	5725	0.19%	0.060%
75	5.901	5.882	5.924	VV	173	2766	0.09%	0.029%
76	5.935	5.924	5.968	VV	146	2528	0.09%	0.026%
77	5.980	5.968	6.030	VV	127	3316	0.11%	0.035%
78	6.080	6.030	6.101	VV	207	4978	0.17%	0.052%
79	6.117	6.101	6.139	VV	888	9332	0.32%	0.097%
80	6.159	6.139	6.183	VV	242	4381	0.15%	0.046%
81	6.203	6.183	6.234	VV	572	7491	0.25%	0.078%
82	6.262	6.234	6.301	VV	434	7929	0.27%	0.083%
83	6.333	6.301	6.380	VV	301	9116	0.31%	0.095%
84	6.390	6.380	6.412	VV	200	2190	0.07%	0.023%
85	6.422	6.412	6.441	VV	96	1154	0.04%	0.012%
86	6.455	6.441	6.514	VV	138	3682	0.13%	0.038%
87	6.543	6.514	6.574	VV	3147	33216	1.13%	0.347%
88	6.628	6.574	6.646	VV	372	6194	0.21%	0.065%
89	6.662	6.646	6.674	VV	343	3782	0.13%	0.040%

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90	6.693	6.674	6.714	VV	867	10541	0.36%	0.110%
91	6.730	6.714	6.746	VV	353	4173	0.14%	0.044%
92	6.766	6.746	6.804	VV	465	6709	0.23%	0.070%
93	6.820	6.804	6.846	VV	126	2265	0.08%	0.024%
94	6.864	6.846	6.929	VV	162	5432	0.18%	0.057%
95	6.940	6.929	6.949	VV	142	1204	0.04%	0.013%
96	6.954	6.949	6.967	VV	140	873	0.03%	0.009%
97	6.988	6.967	7.009	VV	358	4907	0.17%	0.051%
98	7.042	7.009	7.077	VV	649	13522	0.46%	0.141%
99	7.102	7.077	7.132	VV	474	10033	0.34%	0.105%
100	7.169	7.132	7.194	VV	861	15116	0.51%	0.158%
101	7.202	7.194	7.223	VV	229	2623	0.09%	0.027%
102	7.247	7.223	7.263	VV	312	4173	0.14%	0.044%
103	7.275	7.263	7.289	VV	217	2055	0.07%	0.021%
104	7.329	7.289	7.363	PV	1441	20135	0.68%	0.210%
105	7.386	7.363	7.397	VV	348	4565	0.16%	0.048%
106	7.406	7.397	7.415	VV	305	2696	0.09%	0.028%
107	7.432	7.415	7.447	VV	451	5807	0.20%	0.061%
108	7.468	7.447	7.491	VV	1621	18467	0.63%	0.193%
109	7.531	7.491	7.544	VV	310	5695	0.19%	0.059%
110	7.560	7.544	7.611	VV	424	6826	0.23%	0.071%
111	7.615	7.611	7.621	VV	137	673	0.02%	0.007%
112	7.636	7.621	7.666	VV	121	2586	0.09%	0.027%
113	7.685	7.666	7.709	PV	162	2521	0.09%	0.026%
114	7.731	7.709	7.753	VV	637	7771	0.26%	0.081%
115	7.785	7.753	7.861	VV	96949	938963	31.92%	9.809%
116	7.885	7.861	7.912	VV	241	5587	0.19%	0.058%
117	7.923	7.912	7.972	VV	253	5909	0.20%	0.062%
118	7.990	7.972	8.015	VV	255	4185	0.14%	0.044%
119	8.035	8.015	8.068	PV	720	8707	0.30%	0.091%
120	8.092	8.068	8.117	VV	569	6653	0.23%	0.070%
121	8.163	8.117	8.181	VV	264	5570	0.19%	0.058%
122	8.208	8.181	8.228	VV	204	3365	0.11%	0.035%
123	8.245	8.228	8.285	VV	467	8552	0.29%	0.089%
124	8.300	8.285	8.311	VV	184	2671	0.09%	0.028%
125	8.340	8.311	8.366	VV	4090	44841	1.52%	0.468%
126	8.374	8.366	8.411	VV	264	3747	0.13%	0.039%
127	8.450	8.411	8.472	VV	418	10230	0.35%	0.107%
128	8.488	8.472	8.521	VV	314	5317	0.18%	0.056%
129	8.535	8.521	8.558	VV	225	3455	0.12%	0.036%
130	8.574	8.558	8.604	VV	309	4339	0.15%	0.045%
131	8.654	8.604	8.732	VV	100907	1018375	34.62%	10.639%
132	8.757	8.732	8.776	VV	323	6895	0.23%	0.072%
133	8.803	8.776	8.816	VV	366	7623	0.26%	0.080%
134	8.831	8.816	8.858	VV	454	8387	0.29%	0.088%
135	8.878	8.858	8.919	VV	815	15810	0.54%	0.165%
136	8.932	8.919	8.976	VV	272	5928	0.20%	0.062%
137	8.998	8.976	9.021	VV	257	4132	0.14%	0.043%
138	9.063	9.021	9.084	VV	4962	54152	1.84%	0.566%
139	9.098	9.084	9.134	VV	654	13030	0.44%	0.136%
140	9.163	9.134	9.175	VV	1564	22752	0.77%	0.238%
141	9.181	9.175	9.208	VV	1088	13116	0.45%	0.137%

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142	9.218	9.208	9.235	VV	363	3999	0.14%	0.042%
143	9.251	9.235	9.288	VV	308	4817	0.16%	0.050%
144	9.303	9.288	9.334	VV	253	4434	0.15%	0.046%
145	9.353	9.334	9.367	VV	213	2941	0.10%	0.031%
146	9.383	9.367	9.429	VV	269	5983	0.20%	0.063%
147	9.461	9.429	9.508	VV	338	8415	0.29%	0.088%
148	9.533	9.508	9.568	VV	668	11528	0.39%	0.120%
149	9.584	9.568	9.597	VV	257	3083	0.10%	0.032%
150	9.611	9.597	9.648	VV	203	4213	0.14%	0.044%
151	9.668	9.648	9.701	VV	379	6888	0.23%	0.072%
152	9.722	9.701	9.754	VV	675	7965	0.27%	0.083%
153	9.783	9.754	9.793	PV	283	3624	0.12%	0.038%
154	9.814	9.793	9.843	VV	4201	42538	1.45%	0.444%
155	9.862	9.843	9.910	VV	376	6460	0.22%	0.067%
156	9.941	9.910	9.992	VV	2068	26172	0.89%	0.273%
157	10.011	9.992	10.022	VV	209	2594	0.09%	0.027%
158	10.034	10.022	10.058	VV	176	2835	0.10%	0.030%
159	10.074	10.058	10.101	VV	122	1633	0.06%	0.017%
160	10.106	10.101	10.123	VV	132	1074	0.04%	0.011%
161	10.139	10.123	10.196	VV	295	4971	0.17%	0.052%
162	10.221	10.196	10.239	VV	203	2595	0.09%	0.027%
163	10.271	10.239	10.299	VV	235	5772	0.20%	0.060%
164	10.333	10.299	10.354	VV	483	8931	0.30%	0.093%
165	10.376	10.354	10.392	VV	293	4727	0.16%	0.049%
166	10.414	10.392	10.450	VV	230	5590	0.19%	0.058%
167	10.472	10.450	10.519	VV	305	6565	0.22%	0.069%
168	10.542	10.519	10.559	VV	243	4115	0.14%	0.043%
169	10.581	10.559	10.596	VV	254	4714	0.16%	0.049%
170	10.615	10.596	10.628	VV	293	4454	0.15%	0.047%
171	10.632	10.628	10.651	VV	327	3258	0.11%	0.034%
172	10.681	10.651	10.728	VV	738	14476	0.49%	0.151%
173	10.761	10.728	10.788	VV	528	13219	0.45%	0.138%
174	10.813	10.788	10.851	VV	564	12196	0.41%	0.127%
175	10.906	10.851	10.921	VV	258	8571	0.29%	0.090%
176	10.939	10.921	10.961	VV	284	4686	0.16%	0.049%
177	11.012	10.961	11.041	VV	248	8599	0.29%	0.090%
178	11.055	11.041	11.086	VV	218	5122	0.17%	0.054%
179	11.110	11.086	11.163	VV	336	9890	0.34%	0.103%
180	11.188	11.163	11.221	VV	390	6975	0.24%	0.073%
181	11.231	11.221	11.264	VV	145	2566	0.09%	0.027%
182	11.278	11.264	11.291	VV	181	1819	0.06%	0.019%
183	11.315	11.291	11.341	VV	1021	12667	0.43%	0.132%
184	11.385	11.341	11.418	VV	1473	19112	0.65%	0.200%
185	11.431	11.418	11.442	VV	136	1703	0.06%	0.018%
186	11.476	11.442	11.511	VV	306	6740	0.23%	0.070%
187	11.546	11.511	11.584	PV	239	4916	0.17%	0.051%
188	11.607	11.584	11.624	VV	173	1825	0.06%	0.019%
189	11.638	11.624	11.664	VV	124	1975	0.07%	0.021%
190	11.709	11.664	11.761	VV	58950	622091	21.15%	6.499%
191	11.778	11.761	11.821	VV	417	8424	0.29%	0.088%
192	11.841	11.821	11.852	VV	297	4129	0.14%	0.043%
193	11.872	11.852	11.921	VV	353	8102	0.28%	0.085%
194	11.988	11.921	12.008	VV	247	7252	0.25%	0.076%

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195	12.053	12.008	12.084	VV	603	16091	0.55%	0.168%
196	12.107	12.084	12.129	VV	1011	13477	0.46%	0.141%
197	12.149	12.129	12.174	VV	349	6863	0.23%	0.072%
198	12.209	12.174	12.235	VV	290	8062	0.27%	0.084%
199	12.276	12.235	12.318	VV	542	15227	0.52%	0.159%
200	12.349	12.318	12.373	VV	449	10504	0.36%	0.110%
201	12.392	12.373	12.405	VV	592	7425	0.25%	0.078%
202	12.423	12.405	12.458	VV	590	11996	0.41%	0.125%
203	12.508	12.458	12.529	VV	431	13960	0.47%	0.146%
204	12.558	12.529	12.596	VV	897	17039	0.58%	0.178%
205	12.634	12.596	12.670	VV	926	16424	0.56%	0.172%
206	12.695	12.670	12.721	VV	1544	20425	0.69%	0.213%
207	12.780	12.721	12.802	VV	735	18677	0.63%	0.195%
208	12.815	12.802	12.935	VV	281	14626	0.50%	0.153%
209	12.967	12.935	13.004	VV	254	7492	0.25%	0.078%
210	13.017	13.004	13.032	VV	226	2802	0.10%	0.029%
211	13.062	13.032	13.078	VV	305	5833	0.20%	0.061%
212	13.144	13.078	13.188	VV	260592	2941663	100.00%	30.730%
213	13.200	13.188	13.213	VV	322	4287	0.15%	0.045%
214	13.257	13.213	13.281	VV	324	10645	0.36%	0.111%
215	13.308	13.281	13.337	VV	531	12745	0.43%	0.133%
216	13.360	13.337	13.418	VV	683	17589	0.60%	0.184%
217	13.427	13.418	13.445	VV	251	3621	0.12%	0.038%
218	13.453	13.445	13.488	VV	201	5025	0.17%	0.052%
219	13.505	13.488	13.561	VV	309	10399	0.35%	0.109%
220	13.584	13.561	13.631	VV	358	10358	0.35%	0.108%
221	13.714	13.631	13.731	VV	300	12977	0.44%	0.136%
222	13.745	13.731	13.789	VV	348	8035	0.27%	0.084%
223	13.807	13.789	13.819	VV	236	3729	0.13%	0.039%
224	13.843	13.819	13.871	VV	949	13871	0.47%	0.145%
225	13.895	13.871	13.944	VV	1396	20180	0.69%	0.211%
226	13.949	13.944	13.988	VV	205	3569	0.12%	0.037%
227	13.996	13.988	14.038	VV	144	3744	0.13%	0.039%
228	14.044	14.038	14.064	VV	107	1346	0.05%	0.014%
229	14.136	14.064	14.174	VV	209	7692	0.26%	0.080%
230	14.187	14.174	14.211	VV	154	2110	0.07%	0.022%
231	14.230	14.211	14.246	VV	160	2292	0.08%	0.024%
232	14.256	14.246	14.268	VV	122	1403	0.05%	0.015%
233	14.276	14.268	14.298	VV	133	2372	0.08%	0.025%
234	14.331	14.298	14.399	VV	973	20915	0.71%	0.218%
235	14.411	14.399	14.435	VV	209	3838	0.13%	0.040%
236	14.458	14.435	14.538	VV	465	13486	0.46%	0.141%
237	14.585	14.538	14.638	VV	296	12419	0.42%	0.130%
238	14.644	14.638	14.691	VV	208	5541	0.19%	0.058%
239	14.723	14.691	14.741	VV	209	4240	0.14%	0.044%
240	14.780	14.741	14.878	VV	201	12751	0.43%	0.133%
241	14.953	14.878	14.974	VV	717	15521	0.53%	0.162%
242	14.997	14.974	15.027	VV	1334	21471	0.73%	0.224%
243	15.043	15.027	15.101	VV	415	7479	0.25%	0.078%
244	15.106	15.101	15.133	VV	137	1141	0.04%	0.012%
245	15.142	15.133	15.158	VV	74	526	0.02%	0.005%
246	15.176	15.158	15.183	PV	109	987	0.03%	0.010%

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247	15.200	15.183	15.226	VV	127	2039	0.07%	0.021%
248	15.293	15.226	15.328	VV	120	4376	0.15%	0.046%
249	15.375	15.328	15.468	VV	806	23706	0.81%	0.248%
250	15.519	15.468	15.558	VV	779	17031	0.58%	0.178%
251	15.578	15.558	15.648	VV	167	5569	0.19%	0.058%
252	15.748	15.648	15.766	VV	174	6629	0.23%	0.069%
253	15.772	15.766	15.778	VV	119	758	0.03%	0.008%
254	15.786	15.778	15.838	VV	135	4055	0.14%	0.042%
255	15.856	15.838	15.924	VV	153	6303	0.21%	0.066%
256	15.981	15.924	15.996	VV	579	8760	0.30%	0.092%
257	16.020	15.996	16.056	VV	1391	19539	0.66%	0.204%
258	16.081	16.056	16.114	VV	230	4371	0.15%	0.046%
259	16.131	16.114	16.151	VV	102	1297	0.04%	0.014%
260	16.182	16.151	16.260	VV	113	4042	0.14%	0.042%
261	16.272	16.260	16.278	PV	61	599	0.02%	0.006%
262	16.284	16.278	16.311	VV	134	1174	0.04%	0.012%
263	16.318	16.311	16.344	VV	117	1607	0.05%	0.017%
264	16.392	16.344	16.438	VV	154	4467	0.15%	0.047%
265	16.504	16.438	16.558	VV	1252	22276	0.76%	0.233%
266	16.584	16.558	16.652	VV	192	5983	0.20%	0.062%
267	16.673	16.652	16.685	VV	150	2353	0.08%	0.025%
268	16.730	16.685	16.760	VV	202	5248	0.18%	0.055%
269	16.812	16.760	16.841	VV	144	4687	0.16%	0.049%
270	16.871	16.841	16.901	VV	257	4891	0.17%	0.051%
271	16.936	16.901	16.947	VV	406	5757	0.20%	0.060%
272	16.970	16.947	16.997	VV	1333	18440	0.63%	0.193%
273	17.021	16.997	17.101	VV	345	8198	0.28%	0.086%
274	17.126	17.101	17.138	PV	101	1722	0.06%	0.018%
275	17.148	17.138	17.218	PB	73	1872	0.06%	0.020%
276	17.266	17.218	17.280	BV	156	3441	0.12%	0.036%
277	17.302	17.280	17.338	VV	325	6201	0.21%	0.065%
278	17.356	17.338	17.364	VV	131	1603	0.05%	0.017%
279	17.422	17.364	17.465	VV	1988	33284	1.13%	0.348%
280	17.473	17.465	17.482	VV	129	866	0.03%	0.009%
281	17.507	17.482	17.532	VV	135	2875	0.10%	0.030%
282	17.552	17.532	17.588	VV	90	2151	0.07%	0.022%
283	17.601	17.588	17.611	VV	80	981	0.03%	0.010%
284	17.645	17.611	17.666	VV	185	3428	0.12%	0.036%
285	17.693	17.666	17.723	VV	163	3191	0.11%	0.033%
286	17.745	17.723	17.775	PV	157	3114	0.11%	0.033%
287	17.860	17.775	17.923	VV	1450	30540	1.04%	0.319%
288	17.952	17.923	17.981	VV	416	7659	0.26%	0.080%
289	17.987	17.981	18.004	VV	118	1301	0.04%	0.014%
290	18.019	18.004	18.025	VV	171	1252	0.04%	0.013%
291	18.042	18.025	18.052	VV	129	1631	0.06%	0.017%
292	18.095	18.052	18.107	VV	119	2466	0.08%	0.026%
293	18.219	18.107	18.255	PV	519	17880	0.61%	0.187%
294	18.284	18.255	18.326	VV	2619	38733	1.32%	0.405%
295	18.339	18.326	18.354	VV	62	913	0.03%	0.010%
296	18.386	18.354	18.411	VV	178	4495	0.15%	0.047%
297	18.422	18.411	18.458	VV	146	2491	0.08%	0.026%
298	18.505	18.458	18.513	PV	128	3030	0.10%	0.032%
299	18.541	18.513	18.601	VV	181	5654	0.19%	0.059%

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300	18.693	18.601	18.758	VV	1298	29320	1.00%	0.306%
301	18.799	18.758	18.838	VV	527	11204	0.38%	0.117%
302	18.864	18.838	18.893	VV	272	5190	0.18%	0.054%
303	18.950	18.893	18.965	VV	198	4678	0.16%	0.049%
304	18.985	18.965	19.013	VV	293	5342	0.18%	0.056%
305	19.042	19.013	19.054	VV	383	6662	0.23%	0.070%
306	19.058	19.054	19.063	VV	374	1885	0.06%	0.020%
307	19.093	19.063	19.147	VV	1501	30988	1.05%	0.324%
308	19.201	19.147	19.221	VV	332	10184	0.35%	0.106%
309	19.237	19.221	19.251	VV	319	4640	0.16%	0.048%
310	19.296	19.251	19.322	VV	315	11892	0.40%	0.124%
311	19.350	19.322	19.358	VV	411	6954	0.24%	0.073%
312	19.395	19.358	19.429	VV	415	15055	0.51%	0.157%
313	19.478	19.429	19.508	VV	1245	31538	1.07%	0.329%
314	19.593	19.508	19.605	VV	557	26048	0.89%	0.272%
315	19.671	19.605	19.681	VV	643	23108	0.79%	0.241%
316	19.853	19.681	19.888	VV	1314	92435	3.14%	0.966%
317	19.894	19.888	19.934	VV	865	22479	0.76%	0.235%
318	20.044	19.934	20.053	VV	1108	66930	2.28%	0.699%
319	20.131	20.053	20.158	VV	1378	73061	2.48%	0.763%
320	20.217	20.158	20.248	VV	2024	80829	2.75%	0.844%
321	20.277	20.248	20.298	VV	1450	42649	1.45%	0.446%
322	20.395	20.298	20.432	VV	1762	127367	4.33%	1.331%
323	20.446	20.432	20.464	VV	1708	31711	1.08%	0.331%
324	20.584	20.464	20.651	VV	1967	191079	6.50%	1.996%
325	20.662	20.651	20.671	VV	1609	18655	0.63%	0.195%
326	20.682	20.671	20.720	VV	1594	46953	1.60%	0.491%
327	20.729	20.720	20.748	VV	1610	25723	0.87%	0.269%
328	20.780	20.748	20.824	VV	1709	74170	2.52%	0.775%
329	20.833	20.824	20.944	VV	1544	100411	3.41%	1.049%
330	20.993	20.944	21.094	VV	1639	121912	4.14%	1.274%
331	21.102	21.094	21.194	VV	1271	68700	2.34%	0.718%
332	21.348	21.194	21.361	VV	1031	100822	3.43%	1.053%
333	21.369	21.361	21.410	VV	969	26515	0.90%	0.277%
334	21.451	21.410	21.570	VV	968	79058	2.69%	0.826%
335	21.608	21.570	21.651	VV	699	31802	1.08%	0.332%
336	21.717	21.651	21.804	VV	648	52467	1.78%	0.548%
337	21.826	21.804	21.864	VV	532	16141	0.55%	0.169%
338	21.974	21.864	22.174	VV	566	66424	2.26%	0.694%
339	22.257	22.174	22.318	VV	91	8094	0.28%	0.085%
			Sum of corrected areas:			9572493		

Aliphatic EPH 040925.M Fri Apr 11 04:56:12 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049273.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 17:15
Operator : YP/AJ
Sample : Q1744-03
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-158-SB02

Integration File: autoint1.e
Quant Time: Apr 11 01:04:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.749	5186623	35.013 ug/ml
Spiked Amount 50.000		Recovery =	70.03%
6) S 2-Flurobiphenyl (SURR)	8.615	3081793	30.213 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	60.43%
11) S ortho-Terphenyl (SURR)	11.657	5112481	29.018 ug/ml
Spiked Amount 50.000		Recovery =	58.04%
Target Compounds			

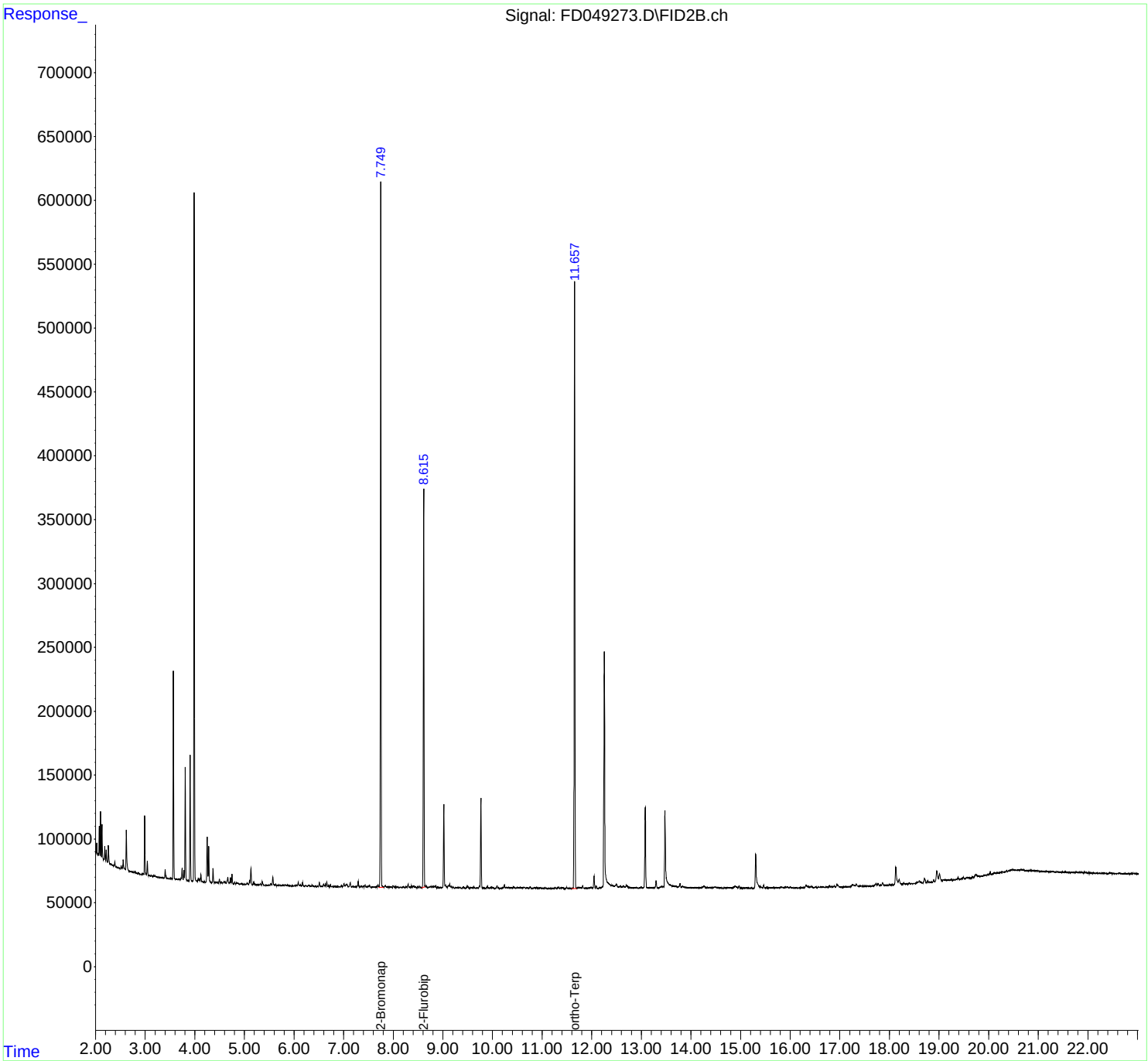
(f)=RT Delta > 1/2 Window (m)=manual int.

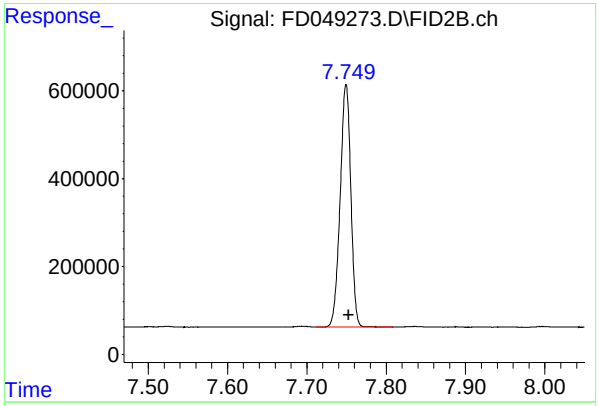
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049273.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 17:15
Operator : YP/AJ
Sample : Q1744-03
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-158-SB02

Integration File: autoint1.e
Quant Time: Apr 11 01:04:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

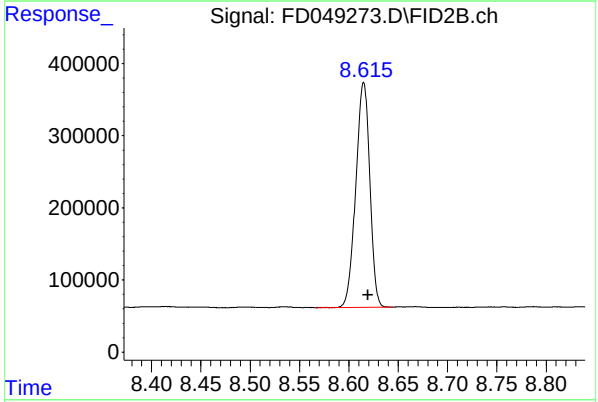




#4 2-Bromonaphthalene (SURR)

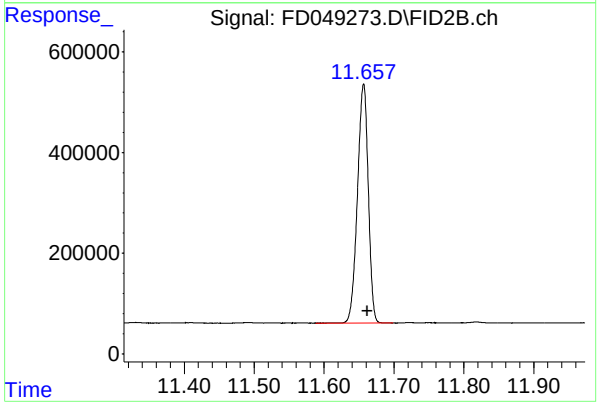
R.T.: 7.749 min
Delta R.T.: -0.003 min
Response: 5186623
Conc: 35.01 ug/ml

Instrument :
FID_D
ClientSampleId :
B-158-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.615 min
Delta R.T.: -0.004 min
Response: 3081793
Conc: 30.21 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.657 min
Delta R.T.: -0.005 min
Response: 5112481
Conc: 29.02 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049273.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 17:15
Sample : Q1744-03
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.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	4.071	4.042	4.083	BV	2835	21686	0.42%	0.064%
2	4.094	4.083	4.108	VV	1986	17948	0.35%	0.053%
3	4.123	4.108	4.145	VV	5932	53329	1.03%	0.158%
4	4.149	4.145	4.179	VV	426	2526	0.05%	0.007%
5	4.192	4.179	4.208	PV	479	4589	0.09%	0.014%
6	4.250	4.222	4.267	VV	35626	378055	7.28%	1.123%
7	4.281	4.267	4.340	VV	28409	267950	5.16%	0.796%
8	4.368	4.350	4.385	PV	11227	93559	1.80%	0.278%
9	4.390	4.385	4.424	VV	862	9977	0.19%	0.030%
10	4.429	4.424	4.436	VV	305	1440	0.03%	0.004%
11	4.444	4.436	4.449	VV	304	1903	0.04%	0.006%
12	4.455	4.449	4.477	VV	392	3572	0.07%	0.011%
13	4.496	4.477	4.517	PV	3354	32634	0.63%	0.097%
14	4.545	4.517	4.552	VV	824	11017	0.21%	0.033%
15	4.559	4.552	4.565	VV	607	3545	0.07%	0.011%
16	4.589	4.565	4.601	VV	1366	18419	0.35%	0.055%
17	4.608	4.601	4.634	VV	1078	12404	0.24%	0.037%
18	4.665	4.634	4.689	VV	5081	68881	1.33%	0.205%
19	4.699	4.689	4.703	VV	782	4849	0.09%	0.014%
20	4.720	4.703	4.735	VV	4870	48208	0.93%	0.143%
21	4.750	4.735	4.782	VV	7703	71931	1.38%	0.214%
22	4.804	4.782	4.825	VV	1649	16711	0.32%	0.050%
23	4.841	4.825	4.859	VV	1244	15382	0.30%	0.046%
24	4.867	4.859	4.907	VV	762	11171	0.22%	0.033%
25	4.916	4.907	4.923	VV	369	2673	0.05%	0.008%
26	4.938	4.923	4.962	VV	906	12128	0.23%	0.036%
27	4.965	4.962	4.975	VV	364	1661	0.03%	0.005%
28	4.992	4.975	4.997	PV	284	2396	0.05%	0.007%
29	5.008	5.004	5.021	VV	252	1952	0.04%	0.006%
30	5.033	5.021	5.043	VV	563	5314	0.10%	0.016%
31	5.056	5.043	5.078	VV	1074	13484	0.26%	0.040%
32	5.105	5.078	5.115	VV	3388	36109	0.70%	0.107%
33	5.132	5.115	5.167	VV	12915	145215	2.79%	0.431%
34	5.189	5.167	5.204	VV	2514	27662	0.53%	0.082%
35	5.217	5.204	5.237	VV	579	8187	0.16%	0.024%
36	5.244	5.237	5.258	VV	412	3517	0.07%	0.010%

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37	5.261	5.258	5.278	VV	311	1776	0.03%	0.005%
38	5.295	5.278	5.302	PV	253	1682	0.03%	0.005%
39	5.321	5.302	5.342	VV	971	13228	0.25%	0.039%
40	5.359	5.342	5.402	VV	2905	32765	0.63%	0.097%
41	5.409	5.402	5.421	VV	210	1630	0.03%	0.005%
42	5.430	5.421	5.437	VV	278	1522	0.03%	0.005%
43	5.464	5.437	5.487	PV	290	4725	0.09%	0.014%
44	5.501	5.487	5.513	VV	625	5511	0.11%	0.016%
45	5.533	5.513	5.551	VV	1637	17684	0.34%	0.053%
46	5.573	5.551	5.611	VV	6703	80543	1.55%	0.239%
47	5.631	5.611	5.653	VV	1248	15451	0.30%	0.046%
48	5.661	5.653	5.666	VV	392	1900	0.04%	0.006%
49	5.693	5.677	5.707	PV	530	5655	0.11%	0.017%
50	5.715	5.707	5.748	VV	578	8133	0.16%	0.024%
51	5.778	5.748	5.802	VV	710	11267	0.22%	0.033%
52	5.826	5.802	5.847	VV	1033	13553	0.26%	0.040%
53	5.873	5.857	5.886	VV	557	5690	0.11%	0.017%
54	5.890	5.886	5.932	VV	287	5475	0.11%	0.016%
55	5.939	5.932	5.961	PV	208	2606	0.05%	0.008%
56	5.968	5.961	5.983	VV	453	2769	0.05%	0.008%
57	5.993	5.983	6.018	VV	333	4244	0.08%	0.013%
58	6.026	6.018	6.050	VV	518	7077	0.14%	0.021%
59	6.063	6.050	6.067	VV	608	4720	0.09%	0.014%
60	6.086	6.067	6.105	VV	3033	35062	0.67%	0.104%
61	6.126	6.105	6.157	VV	1182	20364	0.39%	0.060%
62	6.171	6.157	6.208	VV	2970	32215	0.62%	0.096%
63	6.228	6.208	6.273	VV	698	15596	0.30%	0.046%
64	6.304	6.273	6.322	VV	1006	18410	0.35%	0.055%
65	6.342	6.322	6.350	VV	382	4694	0.09%	0.014%
66	6.364	6.350	6.395	VV	1196	16730	0.32%	0.050%
67	6.401	6.395	6.422	VV	451	3180	0.06%	0.009%
68	6.431	6.422	6.468	PV	260	4573	0.09%	0.014%
69	6.479	6.468	6.493	VV	289	2459	0.05%	0.007%
70	6.512	6.493	6.548	VV	3336	36460	0.70%	0.108%
71	6.559	6.548	6.567	PV	253	1537	0.03%	0.005%
72	6.595	6.567	6.616	VV	2225	29407	0.57%	0.087%
73	6.630	6.616	6.644	VV	1634	16470	0.32%	0.049%
74	6.661	6.644	6.680	VV	3795	38154	0.73%	0.113%
75	6.694	6.680	6.712	VV	1112	11322	0.22%	0.034%
76	6.734	6.712	6.749	VV	2001	18574	0.36%	0.055%
77	6.766	6.749	6.781	VV	456	3944	0.08%	0.012%
78	6.786	6.781	6.802	VV	295	2952	0.06%	0.009%
79	6.814	6.802	6.818	PV	270	1469	0.03%	0.004%
80	6.828	6.818	6.873	VV	453	6967	0.13%	0.021%
81	6.881	6.873	6.902	VV	412	4681	0.09%	0.014%
82	6.909	6.902	6.933	VV	382	3127	0.06%	0.009%
83	6.953	6.933	6.982	VV	1453	17972	0.35%	0.053%
84	7.007	6.982	7.038	VV	2777	46355	0.89%	0.138%
85	7.054	7.038	7.101	VV	2372	50616	0.97%	0.150%
86	7.134	7.101	7.171	VV	3505	51411	0.99%	0.153%
87	7.186	7.171	7.208	VV	570	7993	0.15%	0.024%
88	7.212	7.208	7.215	VV	352	1405	0.03%	0.004%
89	7.219	7.215	7.227	VV	368	2094	0.04%	0.006%

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90	7.242	7.227	7.257	VV	489	5543	0.11%	0.016%
91	7.294	7.257	7.330	VV	4600	60163	1.16%	0.179%
92	7.353	7.330	7.385	VV	1090	21383	0.41%	0.063%
93	7.400	7.385	7.413	VV	1308	12644	0.24%	0.038%
94	7.431	7.413	7.456	VV	1876	20688	0.40%	0.061%
95	7.465	7.456	7.482	VV	658	6051	0.12%	0.018%
96	7.502	7.482	7.512	VV	895	10792	0.21%	0.032%
97	7.524	7.512	7.558	VV	1666	17559	0.34%	0.052%
98	7.568	7.558	7.575	VV	203	1227	0.02%	0.004%
99	7.591	7.575	7.624	VV	398	8238	0.16%	0.024%
100	7.633	7.624	7.640	VV	403	2856	0.05%	0.008%
101	7.666	7.640	7.678	VV	754	10348	0.20%	0.031%
102	7.694	7.678	7.712	VV	2206	24628	0.47%	0.073%
103	7.749	7.712	7.808	VV	553680	5195556	100.00%	15.428%
104	7.836	7.808	7.878	VV	1722	31016	0.60%	0.092%
105	7.889	7.878	7.905	VV	855	7641	0.15%	0.023%
106	7.919	7.905	7.934	VV	623	6572	0.13%	0.020%
107	7.949	7.934	7.980	VV	565	7630	0.15%	0.023%
108	7.997	7.980	8.016	VV	1733	19513	0.38%	0.058%
109	8.026	8.016	8.046	VV	603	7408	0.14%	0.022%
110	8.051	8.046	8.073	VV	423	5172	0.10%	0.015%
111	8.089	8.073	8.116	VV	671	9983	0.19%	0.030%
112	8.124	8.116	8.135	VV	381	3241	0.06%	0.010%
113	8.142	8.135	8.148	VV	285	1876	0.04%	0.006%
114	8.154	8.148	8.161	VV	481	2621	0.05%	0.008%
115	8.194	8.161	8.225	VV	780	16847	0.32%	0.050%
116	8.232	8.225	8.246	VV	511	4878	0.09%	0.014%
117	8.256	8.246	8.270	VV	714	7980	0.15%	0.024%
118	8.301	8.270	8.324	VV	3061	40447	0.78%	0.120%
119	8.331	8.324	8.348	VV	531	6633	0.13%	0.020%
120	8.365	8.348	8.380	VV	1511	17412	0.34%	0.052%
121	8.394	8.380	8.405	VV	1247	14650	0.28%	0.044%
122	8.413	8.405	8.438	VV	1512	21865	0.42%	0.065%
123	8.445	8.438	8.476	VV	933	11321	0.22%	0.034%
124	8.494	8.476	8.520	PV	896	12534	0.24%	0.037%
125	8.536	8.520	8.566	VV	1339	15294	0.29%	0.045%
126	8.574	8.566	8.581	VV	386	2017	0.04%	0.006%
127	8.615	8.581	8.645	VV	312862	3102560	59.72%	9.213%
128	8.651	8.645	8.655	VV	1202	6851	0.13%	0.020%
129	8.667	8.655	8.694	VV	1496	19625	0.38%	0.058%
130	8.711	8.694	8.717	VV	717	7273	0.14%	0.022%
131	8.720	8.717	8.724	VV	615	2342	0.05%	0.007%
132	8.743	8.724	8.751	VV	1065	14390	0.28%	0.043%
133	8.757	8.751	8.771	VV	1162	10886	0.21%	0.032%
134	8.787	8.771	8.802	VV	1491	19342	0.37%	0.057%
135	8.809	8.802	8.820	VV	1243	11471	0.22%	0.034%
136	8.835	8.820	8.845	VV	1501	17728	0.34%	0.053%
137	8.860	8.845	8.879	VV	1474	18364	0.35%	0.055%
138	8.904	8.879	8.917	VV	815	10949	0.21%	0.033%
139	8.925	8.917	8.939	VV	462	4711	0.09%	0.014%
140	8.953	8.939	8.973	VV	704	9094	0.18%	0.027%
141	9.020	8.973	9.042	VV	65656	654286	12.59%	1.943%

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142	9.054	9.042	9.089	VV	2621	41563	0.80%	0.123%
143	9.107	9.089	9.124	VV	1988	31627	0.61%	0.094%
144	9.140	9.124	9.165	VV	3024	44386	0.85%	0.132%
145	9.175	9.165	9.191	VV	1208	12490	0.24%	0.037%
146	9.208	9.191	9.238	VV	948	12038	0.23%	0.036%
147	9.260	9.238	9.274	VV	619	9173	0.18%	0.027%
148	9.278	9.274	9.288	VV	320	1855	0.04%	0.006%
149	9.307	9.288	9.326	VV	639	9437	0.18%	0.028%
150	9.343	9.326	9.386	VV	953	11990	0.23%	0.036%
151	9.407	9.386	9.460	VV	987	18786	0.36%	0.056%
152	9.490	9.470	9.532	VV	1585	30609	0.59%	0.091%
153	9.542	9.532	9.550	VV	275	1872	0.04%	0.006%
154	9.575	9.550	9.606	VV	508	11419	0.22%	0.034%
155	9.621	9.606	9.665	VV	1009	14233	0.27%	0.042%
156	9.678	9.673	9.687	VV	383	1969	0.04%	0.006%
157	9.699	9.687	9.707	VV	502	4071	0.08%	0.012%
158	9.712	9.707	9.716	VV	360	1356	0.03%	0.004%
159	9.738	9.716	9.745	VV	1994	21504	0.41%	0.064%
160	9.768	9.745	9.798	VV	70658	710715	13.68%	2.110%
161	9.820	9.798	9.827	VV	506	6005	0.12%	0.018%
162	9.835	9.827	9.870	VV	490	6898	0.13%	0.020%
163	9.895	9.870	9.934	VV	1834	26084	0.50%	0.077%
164	9.968	9.943	9.991	VV	863	15409	0.30%	0.046%
165	10.003	9.991	10.028	VV	630	9022	0.17%	0.027%
166	10.066	10.028	10.074	VV	559	7392	0.14%	0.022%
167	10.091	10.074	10.111	VV	2090	24541	0.47%	0.073%
168	10.115	10.111	10.143	VV	348	3969	0.08%	0.012%
169	10.153	10.143	10.159	VV	229	1442	0.03%	0.004%
170	10.173	10.159	10.195	VV	446	6159	0.12%	0.018%
171	10.198	10.195	10.208	VV	402	2845	0.05%	0.008%
172	10.240	10.208	10.273	VV	3023	48247	0.93%	0.143%
173	10.291	10.273	10.311	VV	1023	16691	0.32%	0.050%
174	10.328	10.311	10.348	VV	1109	17882	0.34%	0.053%
175	10.362	10.348	10.387	VV	798	15216	0.29%	0.045%
176	10.389	10.387	10.399	VV	519	3540	0.07%	0.011%
177	10.420	10.399	10.470	VV	1246	29294	0.56%	0.087%
178	10.492	10.470	10.506	VV	906	15666	0.30%	0.047%
179	10.512	10.506	10.548	VV	873	18368	0.35%	0.055%
180	10.569	10.548	10.596	VV	1091	24568	0.47%	0.073%
181	10.629	10.596	10.643	VV	1355	27112	0.52%	0.081%
182	10.649	10.643	10.666	VV	990	10431	0.20%	0.031%
183	10.686	10.666	10.700	VV	858	11945	0.23%	0.035%
184	10.704	10.700	10.713	VV	577	4112	0.08%	0.012%
185	10.724	10.713	10.735	VV	569	6507	0.13%	0.019%
186	10.763	10.735	10.782	VV	1471	24488	0.47%	0.073%
187	10.791	10.782	10.807	VV	520	5514	0.11%	0.016%
188	10.852	10.807	10.868	VV	914	20780	0.40%	0.062%
189	10.888	10.868	10.913	VV	1220	19370	0.37%	0.058%
190	10.918	10.913	10.929	VV	707	5588	0.11%	0.017%
191	10.934	10.929	10.938	VV	590	2599	0.05%	0.008%
192	10.960	10.938	10.988	VV	923	18923	0.36%	0.056%
193	11.005	10.988	11.018	VV	680	9076	0.17%	0.027%
194	11.029	11.018	11.035	VV	607	4797	0.09%	0.014%

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195	11.058	11.035	11.071	VV	764	13252	0.26%	0.039%
196	11.084	11.071	11.103	VV	748	9074	0.17%	0.027%
197	11.142	11.113	11.157	VV	479	8038	0.15%	0.024%
198	11.164	11.157	11.183	VV	432	5580	0.11%	0.017%
199	11.222	11.183	11.238	VV	513	11988	0.23%	0.036%
200	11.262	11.238	11.284	VV	785	15626	0.30%	0.046%
201	11.304	11.284	11.311	VV	683	9102	0.18%	0.027%
202	11.331	11.311	11.357	VV	1554	22061	0.42%	0.066%
203	11.359	11.357	11.363	VV	374	1243	0.02%	0.004%
204	11.386	11.363	11.393	VV	772	10460	0.20%	0.031%
205	11.410	11.393	11.443	VV	985	17773	0.34%	0.053%
206	11.446	11.443	11.465	VV	337	2547	0.05%	0.008%
207	11.493	11.465	11.513	VV	1173	18509	0.36%	0.055%
208	11.524	11.513	11.540	VV	539	7041	0.14%	0.021%
209	11.562	11.540	11.584	VV	503	9593	0.18%	0.028%
210	11.611	11.584	11.618	VV	587	7173	0.14%	0.021%
211	11.657	11.618	11.703	VV	476214	5124853	98.64%	15.218%
212	11.722	11.703	11.739	VV	1176	16962	0.33%	0.050%
213	11.750	11.739	11.788	VV	1036	23991	0.46%	0.071%
214	11.797	11.788	11.801	VV	883	6261	0.12%	0.019%
215	11.818	11.801	11.860	VV	2496	38926	0.75%	0.116%
216	11.863	11.860	11.908	VV	592	12876	0.25%	0.038%
217	11.928	11.908	11.951	VV	774	15870	0.31%	0.047%
218	11.988	11.951	12.015	VV	1245	32647	0.63%	0.097%
219	12.049	12.015	12.073	VV	9788	120213	2.31%	0.357%
220	12.090	12.073	12.113	VV	2243	27710	0.53%	0.082%
221	12.134	12.113	12.139	VV	521	5407	0.10%	0.016%
222	12.254	12.139	12.396	VV	185508	2661939	51.23%	7.904%
223	12.410	12.396	12.427	VV	2897	47294	0.91%	0.140%
224	12.429	12.427	12.454	VV	2444	35417	0.68%	0.105%
225	12.499	12.454	12.542	VV	3724	121753	2.34%	0.362%
226	12.547	12.542	12.558	VV	1426	13549	0.26%	0.040%
227	12.576	12.558	12.605	VV	2304	47876	0.92%	0.142%
228	12.635	12.605	12.675	VV	2400	66515	1.28%	0.198%
229	12.699	12.675	12.712	VV	2673	44673	0.86%	0.133%
230	12.720	12.712	12.761	VV	2470	42635	0.82%	0.127%
231	12.765	12.761	12.770	VV	971	4896	0.09%	0.015%
232	12.786	12.770	12.798	VV	964	13677	0.26%	0.041%
233	12.804	12.798	12.819	VV	758	8632	0.17%	0.026%
234	12.823	12.819	12.829	VV	697	3798	0.07%	0.011%
235	12.847	12.829	12.865	VV	658	12514	0.24%	0.037%
236	12.910	12.865	12.943	VV	1069	33230	0.64%	0.099%
237	12.966	12.943	12.975	VV	668	10562	0.20%	0.031%
238	12.995	12.975	13.019	VV	1540	23425	0.45%	0.070%
239	13.032	13.019	13.038	VV	649	5904	0.11%	0.018%
240	13.080	13.038	13.112	VV	63876	745143	14.34%	2.213%
241	13.125	13.112	13.145	VV	881	14629	0.28%	0.043%
242	13.150	13.145	13.157	VV	721	4314	0.08%	0.013%
243	13.167	13.157	13.172	VV	731	6074	0.12%	0.018%
244	13.178	13.172	13.183	VV	733	4268	0.08%	0.013%
245	13.195	13.183	13.204	VV	734	7871	0.15%	0.023%
246	13.210	13.204	13.218	VV	556	4102	0.08%	0.012%

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247	13.244	13.218	13.259	VV	892	15342	0.30%	0.046%
248	13.297	13.259	13.332	VV	6138	88572	1.70%	0.263%
249	13.335	13.332	13.346	VV	617	4312	0.08%	0.013%
250	13.367	13.346	13.375	VV	1009	12993	0.25%	0.039%
251	13.416	13.375	13.440	VV	1690	54931	1.06%	0.163%
252	13.476	13.440	13.635	VV	61145	1032236	19.87%	3.065%
253	13.645	13.635	13.675	VV	2063	44527	0.86%	0.132%
254	13.691	13.675	13.719	VV	1988	45808	0.88%	0.136%
255	13.737	13.719	13.743	VV	1539	21778	0.42%	0.065%
256	13.745	13.743	13.753	VV	1514	7695	0.15%	0.023%
257	13.779	13.753	13.813	VV	3927	74471	1.43%	0.221%
258	13.827	13.813	13.846	VV	1875	30285	0.58%	0.090%
259	13.854	13.846	13.874	VV	1282	18711	0.36%	0.056%
260	13.883	13.874	13.890	VV	982	9122	0.18%	0.027%
261	13.900	13.890	13.932	VV	991	20626	0.40%	0.061%
262	13.950	13.932	13.957	VV	807	10802	0.21%	0.032%
263	13.959	13.957	13.982	VV	799	9459	0.18%	0.028%
264	13.990	13.982	14.012	VV	731	10698	0.21%	0.032%
265	14.033	14.012	14.044	VV	654	10613	0.20%	0.032%
266	14.051	14.044	14.076	VV	722	11770	0.23%	0.035%
267	14.090	14.076	14.122	VV	789	15838	0.30%	0.047%
268	14.125	14.122	14.137	VV	651	5265	0.10%	0.016%
269	14.138	14.137	14.175	VV	651	12158	0.23%	0.036%
270	14.194	14.175	14.205	VV	638	10291	0.20%	0.031%
271	14.262	14.205	14.299	VV	1915	62710	1.21%	0.186%
272	14.304	14.299	14.346	VV	889	20392	0.39%	0.061%
273	14.351	14.346	14.362	VV	750	6484	0.12%	0.019%
274	14.368	14.362	14.373	VV	697	4294	0.08%	0.013%
275	14.392	14.373	14.410	VV	922	15329	0.30%	0.046%
276	14.419	14.410	14.448	VV	706	13824	0.27%	0.041%
277	14.467	14.448	14.475	VV	1062	13878	0.27%	0.041%
278	14.492	14.475	14.538	VV	1229	32575	0.63%	0.097%
279	14.553	14.538	14.559	VV	867	8918	0.17%	0.026%
280	14.563	14.559	14.588	VV	732	9825	0.19%	0.029%
281	14.597	14.588	14.622	VV	628	10161	0.20%	0.030%
282	14.630	14.622	14.640	VV	362	3439	0.07%	0.010%
283	14.647	14.640	14.663	VV	368	4207	0.08%	0.012%
284	14.673	14.663	14.696	VV	496	8190	0.16%	0.024%
285	14.701	14.696	14.710	VV	590	3811	0.07%	0.011%
286	14.726	14.710	14.752	VV	799	10961	0.21%	0.033%
287	14.770	14.752	14.780	VV	727	9072	0.17%	0.027%
288	14.809	14.780	14.835	VV	501	13378	0.26%	0.040%
289	14.889	14.835	14.918	VV	1825	53305	1.03%	0.158%
290	14.928	14.918	14.945	VV	1292	14753	0.28%	0.044%
291	14.973	14.945	15.013	VV	1952	29433	0.57%	0.087%
292	15.020	15.013	15.037	PV	239	1788	0.03%	0.005%
293	15.052	15.037	15.060	VV	237	2305	0.04%	0.007%
294	15.066	15.060	15.075	VV	236	1231	0.02%	0.004%
295	15.096	15.075	15.100	VV	432	3707	0.07%	0.011%
296	15.121	15.100	15.142	VV	537	9311	0.18%	0.028%
297	15.145	15.142	15.162	VV	326	2463	0.05%	0.007%
298	15.165	15.162	15.180	VV	311	2515	0.05%	0.007%
299	15.193	15.180	15.213	VV	293	4470	0.09%	0.013%

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300	15.219	15.213	15.268	VV	366	6775	0.13%	0.020%
301	15.304	15.268	15.400	VV	26918	481711	9.27%	1.430%
302	15.403	15.400	15.423	VV	1109	12302	0.24%	0.037%
303	15.427	15.423	15.431	VV	741	3281	0.06%	0.010%
304	15.434	15.431	15.439	VV	687	2823	0.05%	0.008%
305	15.465	15.439	15.496	VV	2581	38165	0.73%	0.113%
306	15.499	15.496	15.503	VV	339	1410	0.03%	0.004%
307	15.510	15.503	15.521	VV	343	3128	0.06%	0.009%
308	15.534	15.521	15.555	VV	486	6479	0.12%	0.019%
309	15.577	15.555	15.593	VV	573	9192	0.18%	0.027%
310	15.600	15.593	15.625	VV	494	5719	0.11%	0.017%
311	15.646	15.625	15.670	VV	429	8960	0.17%	0.027%
312	15.683	15.670	15.694	VV	423	5897	0.11%	0.018%
313	15.701	15.694	15.720	VV	575	6735	0.13%	0.020%
314	15.726	15.720	15.740	VV	445	4861	0.09%	0.014%
315	15.758	15.740	15.789	VV	626	12891	0.25%	0.038%
316	15.827	15.789	15.840	VV	775	17885	0.34%	0.053%
317	15.844	15.840	15.870	VV	656	10218	0.20%	0.030%
318	15.875	15.870	15.890	VV	625	6167	0.12%	0.018%
319	15.911	15.890	15.925	VV	1151	16426	0.32%	0.049%
320	15.943	15.925	15.985	VV	1013	20739	0.40%	0.062%
321	16.005	15.985	16.026	VV	1148	15570	0.30%	0.046%
322	16.033	16.026	16.044	VV	417	2995	0.06%	0.009%
323	16.054	16.044	16.058	VV	264	1646	0.03%	0.005%
324	16.062	16.058	16.080	VV	307	1525	0.03%	0.005%
325	16.089	16.080	16.103	VV	226	2208	0.04%	0.007%
326	16.112	16.103	16.117	VV	290	1325	0.03%	0.004%
327	16.126	16.117	16.150	VV	291	3812	0.07%	0.011%
328	16.169	16.150	16.177	PV	307	2652	0.05%	0.008%
329	16.183	16.177	16.196	VV	337	2300	0.04%	0.007%
330	16.215	16.196	16.219	VV	337	3308	0.06%	0.010%
331	16.238	16.219	16.268	VV	442	9312	0.18%	0.028%
332	16.318	16.268	16.395	VV	2511	84788	1.63%	0.252%
333	16.415	16.395	16.432	VV	1178	20483	0.39%	0.061%
334	16.437	16.432	16.442	VV	920	4927	0.09%	0.015%
335	16.444	16.442	16.462	VV	1008	6508	0.13%	0.019%
336	16.476	16.462	16.487	VV	351	3269	0.06%	0.010%
337	16.506	16.487	16.542	VV	687	10923	0.21%	0.032%
338	16.570	16.542	16.580	VV	636	7667	0.15%	0.023%
339	16.588	16.580	16.608	VV	498	6305	0.12%	0.019%
340	16.626	16.608	16.644	VV	593	10117	0.19%	0.030%
341	16.647	16.644	16.655	VV	559	2965	0.06%	0.009%
342	16.663	16.655	16.689	VV	423	6741	0.13%	0.020%
343	16.697	16.689	16.700	VV	281	1458	0.03%	0.004%
344	16.727	16.700	16.732	VV	722	7811	0.15%	0.023%
345	16.735	16.732	16.759	VV	740	7367	0.14%	0.022%
346	16.788	16.759	16.810	VV	1279	23035	0.44%	0.068%
347	16.826	16.810	16.838	VV	682	10400	0.20%	0.031%
348	16.850	16.838	16.870	VV	930	12258	0.24%	0.036%
349	16.889	16.870	16.917	VV	1216	20792	0.40%	0.062%
350	16.941	16.917	16.957	VV	2616	38267	0.74%	0.114%
351	16.965	16.957	16.988	VV	1533	19931	0.38%	0.059%

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352	16.994	16.988	17.001	VV	645	3244	0.06%	0.010%
353	17.008	17.001	17.023	VV	409	3510	0.07%	0.010%
354	17.034	17.023	17.070	VV	289	3163	0.06%	0.009%
355	17.084	17.070	17.097	PV	275	3216	0.06%	0.010%
356	17.102	17.097	17.110	VV	246	1592	0.03%	0.005%
357	17.124	17.110	17.150	VV	481	7831	0.15%	0.023%
358	17.160	17.150	17.167	VV	510	3975	0.08%	0.012%
359	17.177	17.167	17.196	VV	628	7089	0.14%	0.021%
360	17.257	17.196	17.307	VV	2079	72316	1.39%	0.215%
361	17.333	17.307	17.370	VV	2326	47821	0.92%	0.142%
362	17.375	17.370	17.386	VV	586	4264	0.08%	0.013%
363	17.426	17.386	17.458	VV	1011	28467	0.55%	0.085%
364	17.462	17.458	17.479	VV	786	7115	0.14%	0.021%
365	17.484	17.479	17.488	VV	591	3082	0.06%	0.009%
366	17.492	17.488	17.510	VV	669	7240	0.14%	0.021%
367	17.523	17.510	17.545	VV	652	10126	0.19%	0.030%
368	17.565	17.545	17.579	VV	763	11627	0.22%	0.035%
369	17.605	17.579	17.614	VV	645	10687	0.21%	0.032%
370	17.618	17.614	17.624	VV	594	2776	0.05%	0.008%
371	17.631	17.624	17.637	PV	746	3204	0.06%	0.010%
372	17.662	17.637	17.672	VV	605	11060	0.21%	0.033%
373	17.728	17.672	17.753	VV	2405	57600	1.11%	0.171%
374	17.774	17.753	17.818	VV	2234	46686	0.90%	0.139%
375	17.825	17.818	17.835	VV	628	6025	0.12%	0.018%
376	17.861	17.835	17.893	VV	2583	48183	0.93%	0.143%
377	17.912	17.893	17.945	VV	549	12957	0.25%	0.038%
378	17.956	17.945	17.973	VV	419	4869	0.09%	0.014%
379	18.007	17.973	18.030	VV	868	16459	0.32%	0.049%
380	18.060	18.030	18.080	VV	589	12445	0.24%	0.037%
381	18.127	18.080	18.177	VV	14433	280105	5.39%	0.832%
382	18.194	18.177	18.244	VV	4301	89373	1.72%	0.265%
383	18.252	18.244	18.257	VV	743	5699	0.11%	0.017%
384	18.294	18.257	18.333	VV	1162	32883	0.63%	0.098%
385	18.335	18.333	18.364	VV	596	8370	0.16%	0.025%
386	18.370	18.364	18.382	VV	503	4792	0.09%	0.014%
387	18.403	18.382	18.428	VV	1256	18760	0.36%	0.056%
388	18.452	18.428	18.459	VV	692	10164	0.20%	0.030%
389	18.466	18.459	18.478	VV	544	5100	0.10%	0.015%
390	18.490	18.478	18.495	VV	492	4573	0.09%	0.014%
391	18.500	18.495	18.507	VV	605	3460	0.07%	0.010%
392	18.602	18.507	18.623	VV	2462	81017	1.56%	0.241%
393	18.634	18.623	18.674	VV	1597	30949	0.60%	0.092%
394	18.707	18.674	18.748	VV	4153	87211	1.68%	0.259%
395	18.772	18.748	18.793	VV	1629	31894	0.61%	0.095%
396	18.805	18.793	18.810	VV	1070	9878	0.19%	0.029%
397	18.814	18.810	18.822	VV	985	6479	0.12%	0.019%
398	18.827	18.822	18.832	VV	794	4356	0.08%	0.013%
399	18.836	18.832	18.845	VV	758	5331	0.10%	0.016%
400	18.848	18.845	18.870	VV	729	8427	0.16%	0.025%
401	18.893	18.870	18.915	VV	2399	40455	0.78%	0.120%
402	18.954	18.915	18.987	VV	9370	207946	4.00%	0.617%
403	19.010	18.987	19.067	VV	6929	174748	3.36%	0.519%
404	19.098	19.067	19.128	VV	2036	66057	1.27%	0.196%

rteres

405	19.137	19.128	19.173	VV	1968	45602	0.88%	0.135%
406	19.177	19.173	19.181	VV	1549	7309	0.14%	0.022%
407	19.190	19.181	19.220	VV	1875	37209	0.72%	0.110%
408	19.242	19.220	19.277	VV	1795	53766	1.03%	0.160%
409	19.294	19.277	19.317	VV	1694	36855	0.71%	0.109%
410	19.329	19.317	19.335	VV	1558	16487	0.32%	0.049%
411	19.382	19.335	19.407	VV	2709	88656	1.71%	0.263%
412	19.412	19.407	19.418	VV	1907	11350	0.22%	0.034%
413	19.454	19.418	19.464	VV	2065	53127	1.02%	0.158%
414	19.491	19.464	19.523	VV	2947	82644	1.59%	0.245%
415	19.560	19.523	19.568	VV	2919	61189	1.18%	0.182%
416	19.573	19.568	19.597	VV	2910	46294	0.89%	0.137%
417	19.618	19.597	19.626	VV	2537	40300	0.78%	0.120%
418	19.630	19.626	19.640	VV	2317	18905	0.36%	0.056%
419	19.673	19.640	19.704	VV	3059	97414	1.87%	0.289%
420	19.754	19.704	19.776	VV	4587	169309	3.26%	0.503%
421	19.784	19.776	19.825	VV	3549	96324	1.85%	0.286%
422	19.853	19.825	19.862	VV	3436	68754	1.32%	0.204%
423	19.866	19.862	19.872	VV	3349	18987	0.37%	0.056%
424	19.900	19.872	19.908	VV	3491	71343	1.37%	0.212%
425	19.934	19.908	19.951	VV	3889	93561	1.80%	0.278%
426	19.980	19.951	20.002	VV	4161	118940	2.29%	0.353%
427	20.030	20.002	20.057	VV	5677	154169	2.97%	0.458%
428	20.066	20.057	20.072	VV	4175	37030	0.71%	0.110%
429	20.120	20.072	20.142	VV	5248	195381	3.76%	0.580%
430	20.171	20.142	20.178	VV	4987	105065	2.02%	0.312%
431	20.238	20.178	20.258	VV	5253	238625	4.59%	0.709%
432	20.283	20.258	20.300	VV	5902	137551	2.65%	0.408%
433	20.363	20.300	20.380	VV	6121	269310	5.18%	0.800%
434	20.412	20.380	20.423	VV	6211	154104	2.97%	0.458%
435	20.427	20.423	20.431	VV	6080	27450	0.53%	0.082%
436	20.470	20.431	20.493	VV	6960	245293	4.72%	0.728%
437	20.496	20.493	20.512	VV	6574	70272	1.35%	0.209%
438	20.518	20.512	20.538	VV	6511	102407	1.97%	0.304%
439	20.554	20.538	20.563	VV	6365	93567	1.80%	0.278%
440	20.575	20.563	20.599	VV	6431	132485	2.55%	0.393%
441	20.602	20.599	20.618	VV	6268	72384	1.39%	0.215%
442	20.622	20.618	20.627	VV	6155	30912	0.59%	0.092%
443	20.639	20.627	20.648	VV	6409	80274	1.55%	0.238%
444	20.658	20.648	20.693	VV	6546	169423	3.26%	0.503%
445	20.696	20.693	20.727	VV	6062	115468	2.22%	0.343%
446	20.738	20.727	20.743	VV	5437	54395	1.05%	0.162%
447	20.750	20.743	20.755	VV	5583	38208	0.74%	0.113%
448	20.762	20.755	20.772	VV	5570	54287	1.04%	0.161%
449	20.776	20.772	20.782	VV	5517	33909	0.65%	0.101%
450	20.788	20.782	20.814	VV	5508	102018	1.96%	0.303%
451	20.857	20.814	20.882	VV	5495	213710	4.11%	0.635%
452	20.894	20.882	20.908	VV	5087	77599	1.49%	0.230%
453	20.917	20.908	20.924	VV	5038	49117	0.95%	0.146%
454	20.930	20.924	20.939	VV	5022	42089	0.81%	0.125%
455	20.948	20.939	20.962	VV	4906	65551	1.26%	0.195%
456	20.966	20.962	20.975	VV	4711	37393	0.72%	0.111%

rteres

457	20.981	20.975	21.005	VV	4764	83678	1.61%	0.248%
458	21.011	21.005	21.020	VV	4505	38456	0.74%	0.114%
459	21.026	21.020	21.048	VV	4581	73249	1.41%	0.218%
460	21.061	21.048	21.102	VV	4408	131830	2.54%	0.391%
461	21.121	21.102	21.140	VV	3997	88280	1.70%	0.262%
462	21.157	21.140	21.162	VV	3966	50497	0.97%	0.150%
463	21.166	21.162	21.171	VV	4016	21926	0.42%	0.065%
464	21.185	21.171	21.203	VV	3872	72036	1.39%	0.214%
465	21.207	21.203	21.211	VV	3630	15770	0.30%	0.047%
466	21.214	21.211	21.220	VV	3649	19786	0.38%	0.059%
467	21.225	21.220	21.240	VV	3625	41979	0.81%	0.125%
468	21.245	21.240	21.250	VV	3475	19839	0.38%	0.059%
469	21.285	21.250	21.308	VV	3708	121885	2.35%	0.362%
470	21.311	21.308	21.328	VV	3338	37623	0.72%	0.112%
471	21.333	21.328	21.350	VV	3023	38448	0.74%	0.114%
472	21.375	21.350	21.383	VV	3001	58796	1.13%	0.175%
473	21.388	21.383	21.408	VV	3130	44324	0.85%	0.132%
474	21.412	21.408	21.437	VV	3016	46944	0.90%	0.139%
475	21.440	21.437	21.453	VV	2728	26027	0.50%	0.077%
476	21.458	21.453	21.462	VV	2563	12621	0.24%	0.037%
477	21.484	21.462	21.497	VV	2732	54800	1.05%	0.163%
478	21.502	21.497	21.509	VV	2670	17967	0.35%	0.053%
479	21.540	21.509	21.553	VV	2593	64975	1.25%	0.193%
480	21.560	21.553	21.564	VV	2378	14567	0.28%	0.043%
481	21.568	21.564	21.579	VV	2388	20161	0.39%	0.060%
482	21.587	21.579	21.600	VV	2321	27498	0.53%	0.082%
483	21.605	21.600	21.613	VV	2272	16855	0.32%	0.050%
484	21.628	21.613	21.640	VV	2157	31745	0.61%	0.094%
485	21.648	21.640	21.667	VV	2135	31702	0.61%	0.094%
486	21.672	21.667	21.677	VV	1819	10473	0.20%	0.031%
487	21.695	21.677	21.702	VV	1930	27330	0.53%	0.081%
488	21.721	21.702	21.738	VV	1804	36781	0.71%	0.109%
489	21.752	21.738	21.761	VV	1889	25000	0.48%	0.074%
490	21.770	21.761	21.780	VV	1953	20775	0.40%	0.062%
491	21.786	21.780	21.797	VV	1826	17728	0.34%	0.053%
492	21.818	21.797	21.825	VV	1782	27552	0.53%	0.082%
493	21.836	21.825	21.855	VV	1706	28648	0.55%	0.085%
494	21.860	21.855	21.879	VV	1668	21178	0.41%	0.063%
495	21.884	21.879	21.897	VV	1416	13962	0.27%	0.041%
496	21.909	21.897	21.953	VV	1301	40500	0.78%	0.120%
497	21.967	21.953	22.001	VV	1186	26961	0.52%	0.080%
498	22.023	22.001	22.028	VV	1200	13493	0.26%	0.040%
499	22.034	22.028	22.075	VV	839	18915	0.36%	0.056%
500	22.083	22.075	22.089	VV	457	3365	0.06%	0.010%
501	22.092	22.089	22.112	VV	438	3953	0.08%	0.012%
502	22.125	22.118	22.163	VV	289	5475	0.11%	0.016%

Sum of corrected areas: 33677166

Aromatic EPH 040725.M Fri Apr 11 01:39:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068560.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 21:36
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 03:45:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.143	3367296	36.249 ug/ml
Spiked Amount 50.000		Recovery = 72.50%	
Target Compounds			

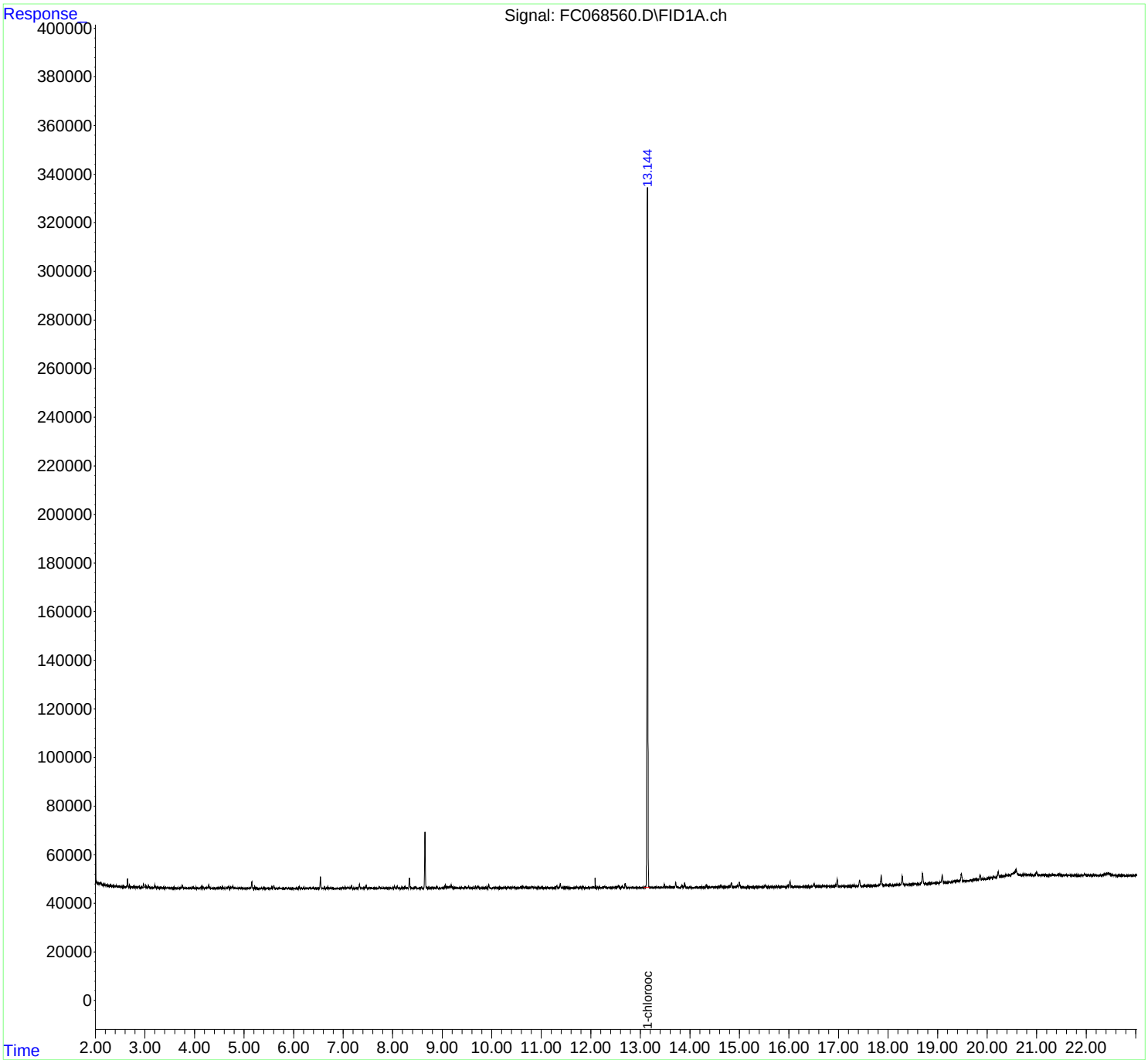
(f)=RT Delta > 1/2 Window (m)=manual int.

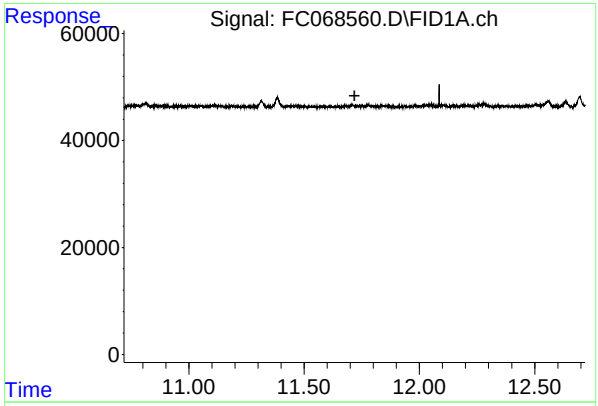
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068560.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 21:36
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 03:45:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

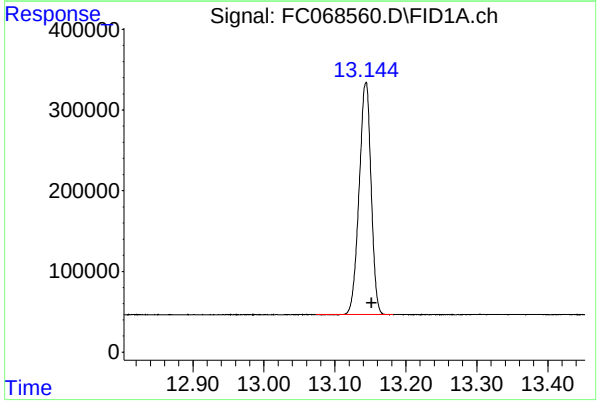




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.719 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB167513BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.143 min
Delta R.T.: -0.008 min
Response: 3367296
Conc: 36.25 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068560.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 21:36
Sample : PB167513BL
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.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	13.143	13.074	13.182	BB	287294	3367296	100.00%	100.000%
			Sum of corrected areas:			3367296		

Aliphatic EPH 040925.M Fri Apr 11 04:48:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049269.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 14:48
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 01:02:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.750	7195070	48.572 ug/ml
Spiked Amount 50.000		Recovery =	97.14%
6) S 2-Flurobiphenyl (SURR)	8.616	4667252	45.756 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	91.51%
11) S ortho-Terphenyl (SURR)	11.658	7315586	41.523 ug/ml
Spiked Amount 50.000		Recovery =	83.05%
Target Compounds			

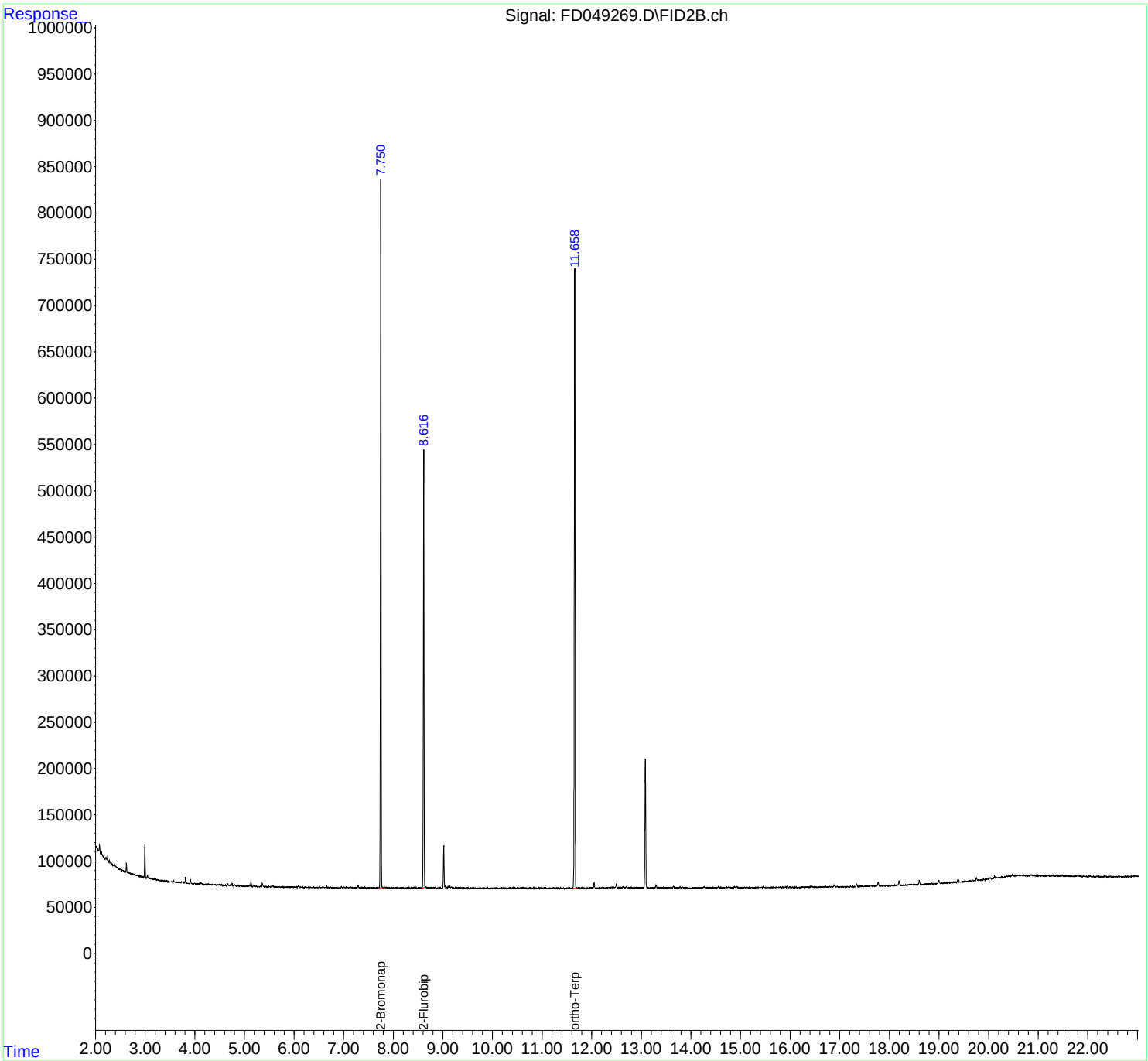
(f)=RT Delta > 1/2 Window (m)=manual int.

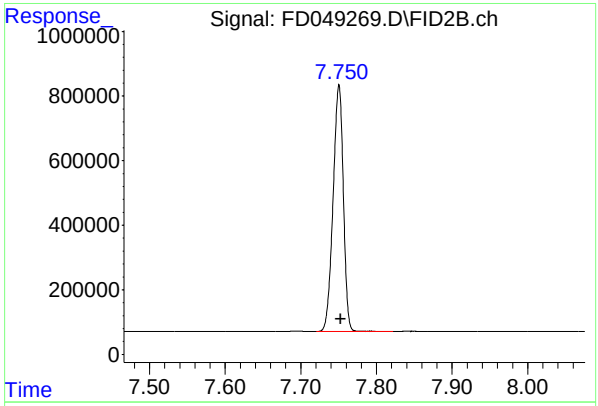
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049269.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 14:48
Operator : YP/AJ
Sample : PB167513BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BL

Integration File: autoint1.e
Quant Time: Apr 11 01:02:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

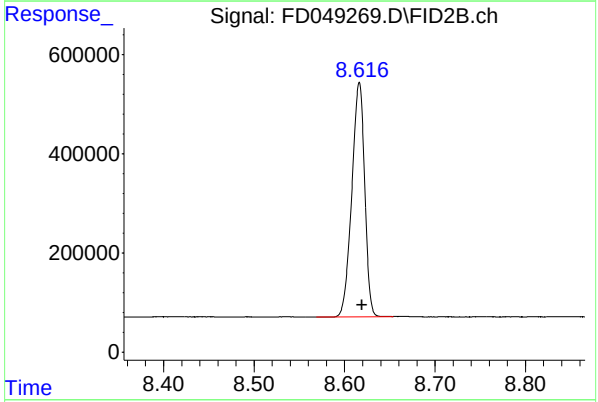




#4 2-Bromonaphthalene (SURR)

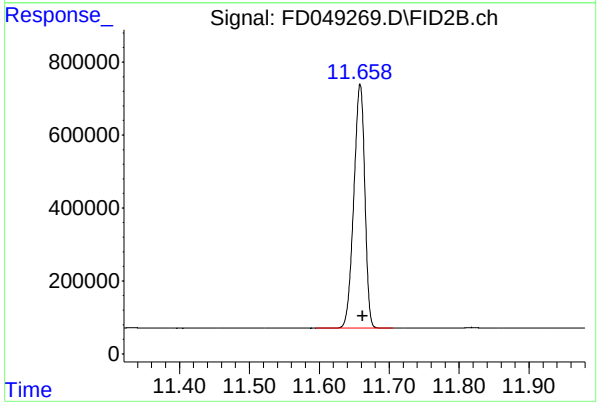
R.T.: 7.750 min
Delta R.T.: -0.002 min
Response: 7195070
Conc: 48.57 ug/ml

Instrument :
FID_D
ClientSampleId :
PB167513BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.616 min
Delta R.T.: -0.003 min
Response: 4667252
Conc: 45.76 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.658 min
Delta R.T.: -0.004 min
Response: 7315586
Conc: 41.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049269.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 14:48
Sample : PB167513BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.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	7.751	7.720	7.822	BB	763333	7195070	98.35%	37.517%
2	8.616	8.569	8.654	BV	474139	4667252	63.80%	24.337%
3	11.658	11.595	11.705	BV	668880	7315586	100.00%	38.146%
			Sum of corrected areas:			19177908		

Aromatic EPH 040725.M Fri Apr 11 01:33:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068561.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:14
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 03:46:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.144	3476251	37.422 ug/ml
Spiked Amount	50.000		Recovery =	74.84%
	Target Compounds			
1) T	n-Nonane (C9)	3.444	2511662	23.847 ug/ml
2) T	n-Decane (C10)	4.519	3059850	29.042 ug/ml
4) T	n-Dodecane (C12)	6.544	3470882	33.005 ug/ml
6) T	n-Tetradecane (C14)	8.342	3939789	38.323 ug/ml
7) T	n-Hexadecane (C16)	9.945	4399158	43.196 ug/ml
8) T	n-Octadecane (C18)	11.388	4700659	46.711 ug/ml
10) T	n-Eicosane (C20)	12.699	4936821	50.191 ug/ml
11) T	n-Heneicosane (C21)	13.312	4753071	48.771 ug/ml
13) T	n-Docosane (C22)	13.898	4760902	49.287 ug/ml
14) T	n-Tetracosane (C24)	15.002	4703534	49.415 ug/ml
15) T	n-Hexacosane (C26)	16.024	4586371	49.102 ug/ml
16) T	n-Octacosane (C28)	16.976	4532861	49.508 ug/ml
17) T	n-Tricontane (C30)	17.864	4546284	49.453 ug/ml
18) T	n-Dotriacontane (C32)	18.699	4463677	48.662 ug/ml
19) T	n-Tetratriacontane (C34)	19.482	4363368	48.840 ug/ml
20) T	n-Hexatriacontane (C36)	20.224	4179719	46.660 ug/ml
21) T	n-Octatriacontane (C38)	20.999	4119074	46.589 ug/ml
22) T	n-Tetracontane (C40)	21.974	4084312	46.252 ug/ml

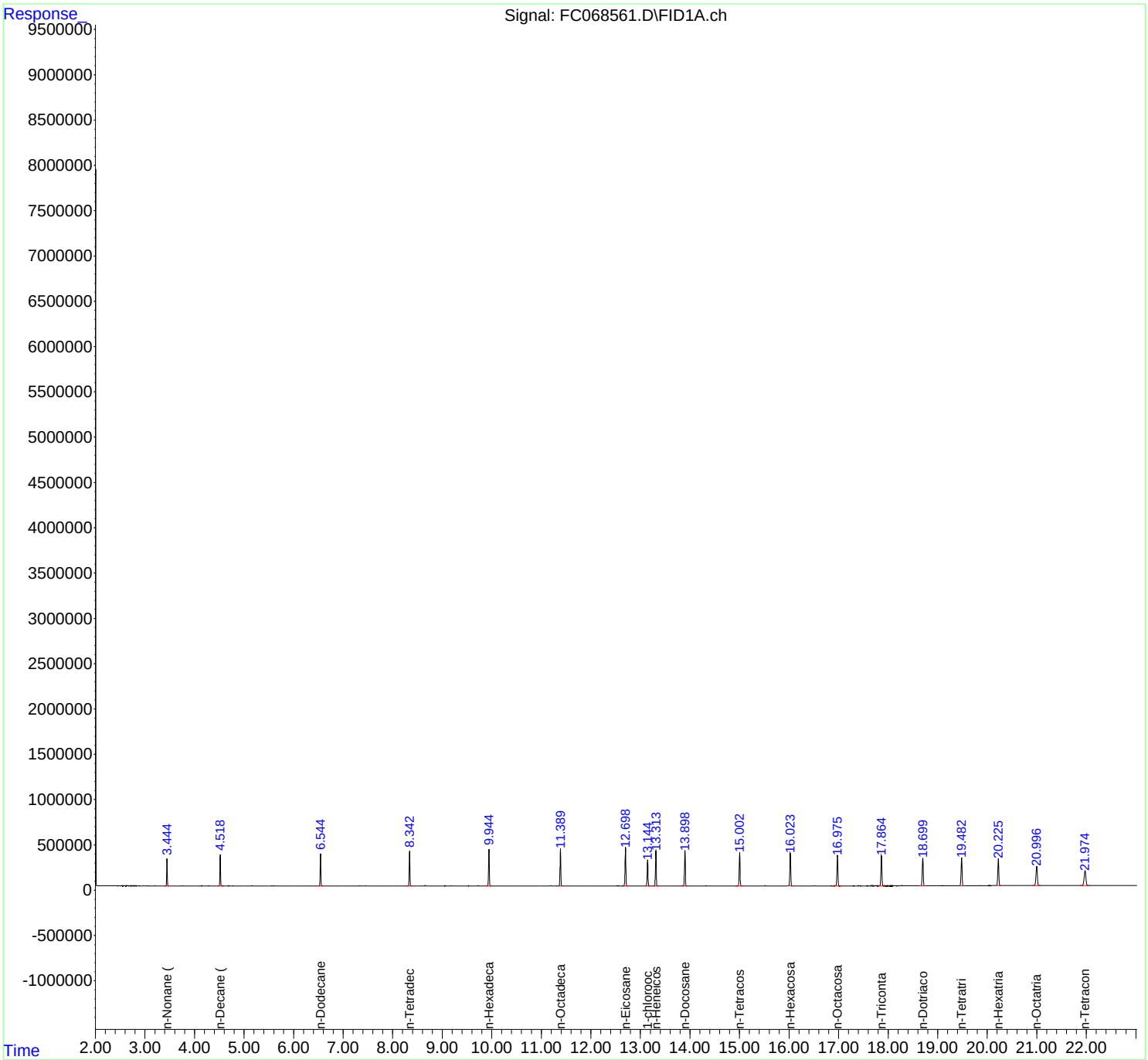
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068561.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:14
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 03:46:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068561.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:14
Sample : PB167513BS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.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	3.444	3.394	3.489	BB	301119	2511662	50.88%	3.156%
2	4.519	4.465	4.554	BV	345587	3059850	61.98%	3.845%
3	6.544	6.490	6.590	BB	357527	3470882	70.31%	4.361%
4	8.342	8.282	8.389	BB	385247	3939789	79.80%	4.950%
5	9.945	9.895	9.999	BB	406440	4399158	89.11%	5.527%
6	11.388	11.344	11.422	BB	412854	4700659	95.22%	5.906%
7	12.699	12.655	12.750	PB	426124	4936821	100.00%	6.203%
8	13.144	13.087	13.197	BB	286891	3476251	70.41%	4.368%
9	13.312	13.250	13.347	BB	388951	4753071	96.28%	5.972%
10	13.898	13.860	13.945	VB	391043	4760902	96.44%	5.982%
11	15.002	14.907	15.054	BB	373498	4703534	95.27%	5.910%
12	16.024	15.990	16.075	BB	364156	4586371	92.90%	5.763%
13	16.976	16.885	17.050	BB	333913	4532861	91.82%	5.695%
14	17.864	17.797	17.924	BB	332447	4546284	92.09%	5.712%
15	18.699	18.629	18.757	BB	306772	4463677	90.42%	5.608%
16	19.482	19.440	19.539	BB	309022	4363368	88.38%	5.482%
17	20.224	20.180	20.275	BB	292884	4179719	84.66%	5.252%
18	20.999	20.917	21.077	BB	210569	4119074	83.44%	5.175%
19	21.974	21.872	22.070	BB	163394	4084312	82.73%	5.132%
			Sum of corrected areas:			79588246		

Aliphatic EPH 040925.M Fri Apr 11 04:48:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049270.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 15:25
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 01:03:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.751	7104793	47.962 ug/ml
Spiked Amount	50.000		Recovery =	95.92%
6) S	2-Flurobiphenyl (SURR)	8.617	4968091	48.705 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	97.41%
11) S	ortho-Terphenyl (SURR)	11.658	7270035	41.264 ug/ml
Spiked Amount	50.000		Recovery =	82.53%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.543	4533934	30.257 ug/ml
2) T	Naphthalene (C11.7)	6.087	5252434	32.079 ug/ml
3) T	2-Methylnaphthalene (...	7.140	5132521	31.731 ug/ml
5) T	Acenaphthylene (C15.06)	8.420	6241909	35.337 ug/ml
7) T	Acenaphthene (C15.5)	8.716	6641631	38.550 ug/ml
8) T	Flouorene (C16.55)	9.497	6963247	39.931 ug/ml
9) T	Phenanthrene (C19.36)	10.896	7511361	43.769 ug/ml
10) T	Anthracene (C19.43)	10.971	7462992	47.506 ug/ml
12) T	Fluoranthene (C21.85)	12.710	7880228	46.621 ug/ml
13) T	Pyrene (C20.8)	13.009	7922597	47.238 ug/ml
14) T	Benzo[a]anthracene (C...	14.878	7268586	50.566 ug/ml
15) T	Chrysene (C27.41)	14.923	7766084	53.821 ug/ml
16) T	benzo[b]fluoranthene ...	16.429	6964167	50.058 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.465	6921495	50.608 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.810	6658431	51.205 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.176	6939023	56.288 ug/ml
20) T	Dibenz[a,h]anthracene...	18.214	6406338	50.664 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.434	6532365	50.038 ug/ml

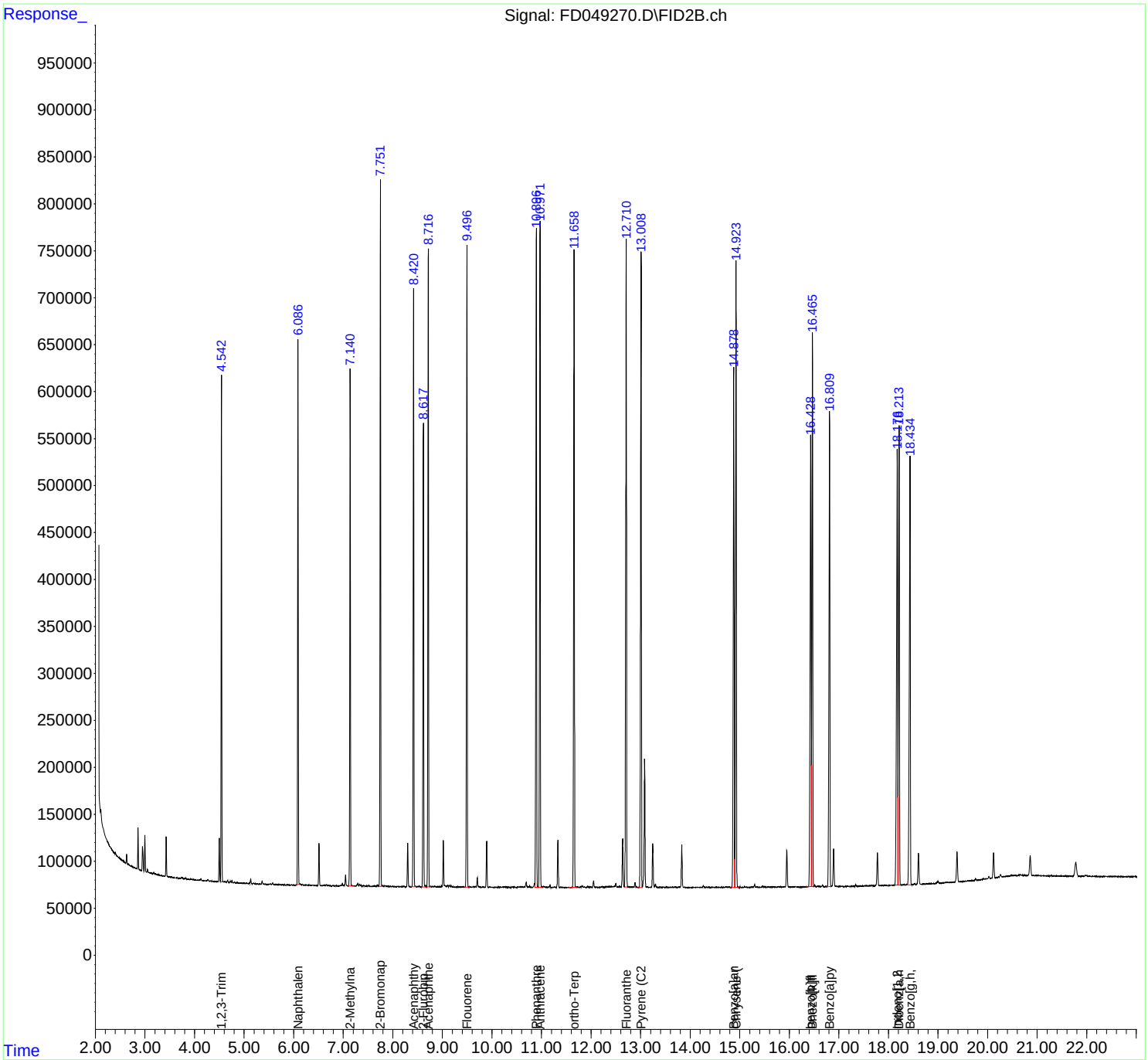
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049270.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 15:25
Operator : YP/AJ
Sample : PB167513BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BS

Integration File: autoint1.e
Quant Time: Apr 11 01:03:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049270.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 15:25
Sample : PB167513BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.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	4.543	4.520	4.587	VB	538988	4533934	57.23%	3.231%
2	6.087	6.035	6.118	BV	580691	5252434	66.30%	3.743%
3	7.140	7.100	7.202	BV	550996	5132521	64.78%	3.657%
4	7.751	7.720	7.812	BB	752552	7104793	89.68%	5.062%
5	8.420	8.354	8.474	BB	638411	6241909	78.79%	4.448%
6	8.617	8.570	8.660	BV	493427	4968091	62.71%	3.540%
7	8.716	8.685	8.779	VB	679198	6641631	83.83%	4.732%
8	9.497	9.435	9.554	BB	683945	6963247	87.89%	4.962%
9	10.896	10.865	10.935	VV	700351	7511361	94.81%	5.352%
10	10.971	10.935	11.020	VV	711104	7462992	94.20%	5.318%
11	11.658	11.544	11.705	BB	678299	7270035	91.76%	5.180%
12	12.710	12.669	12.737	VB	691584	7880228	99.47%	5.615%
13	13.009	12.945	13.034	BV	676474	7922597	100.00%	5.645%
14	14.878	14.805	14.897	BV	551805	7268586	91.75%	5.179%
15	14.923	14.897	14.984	VB	668372	7766084	98.02%	5.534%
16	16.429	16.335	16.444	BV	481095	6964167	87.90%	4.962%
17	16.465	16.444	16.490	VV	590760	6921495	87.36%	4.932%
18	16.810	16.750	16.841	BV	505267	6658431	84.04%	4.744%
19	18.176	18.110	18.190	BV	463013	6939023	87.59%	4.944%
20	18.214	18.190	18.255	VB	489678	6406338	80.86%	4.565%
21	18.434	18.370	18.474	BV	456444	6532365	82.45%	4.655%

Sum of corrected areas: 140342260

Aromatic EPH 040725.M Fri Apr 11 01:34:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049271.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:01
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 01:03:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.750	6686285	45.137 ug/ml
Spiked Amount	50.000		Recovery =	90.27%
6) S	2-Flurobiphenyl (SURR)	8.617	4699720	46.074 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	92.15%
11) S	ortho-Terphenyl (SURR)	11.657	6796630	38.577 ug/ml
Spiked Amount	50.000		Recovery =	77.15%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.542	4288364	28.618 ug/ml
2) T	Naphthalene (C11.7)	6.086	5013350	30.619 ug/ml
3) T	2-Methylnaphthalene (...	7.140	4859873	30.045 ug/ml
5) T	Acenaphthylene (C15.06)	8.419	5905050	33.430 ug/ml
7) T	Acenaphthene (C15.5)	8.716	6283963	36.474 ug/ml
8) T	Flouorene (C16.55)	9.496	6570594	37.680 ug/ml
9) T	Phenanthrene (C19.36)	10.895	7099181	41.367 ug/ml
10) T	Anthracene (C19.43)	10.971	7063026	44.960 ug/ml
12) T	Fluoranthene (C21.85)	12.709	7454671	44.103 ug/ml
13) T	Pyrene (C20.8)	13.008	7492447	44.673 ug/ml
14) T	Benzo[a]anthracene (C...	14.877	6956927	48.398 ug/ml
15) T	Chrysene (C27.41)	14.922	7407680	51.337 ug/ml
16) T	benzo[b]fluoranthene ...	16.428	6715936	48.274 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.465	6664102	48.726 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.810	6444018	49.556 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.175	6738227	54.660 ug/ml
20) T	Dibenz[a,h]anthracene...	18.214	6260702	49.513 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.433	6330050	48.488 ug/ml

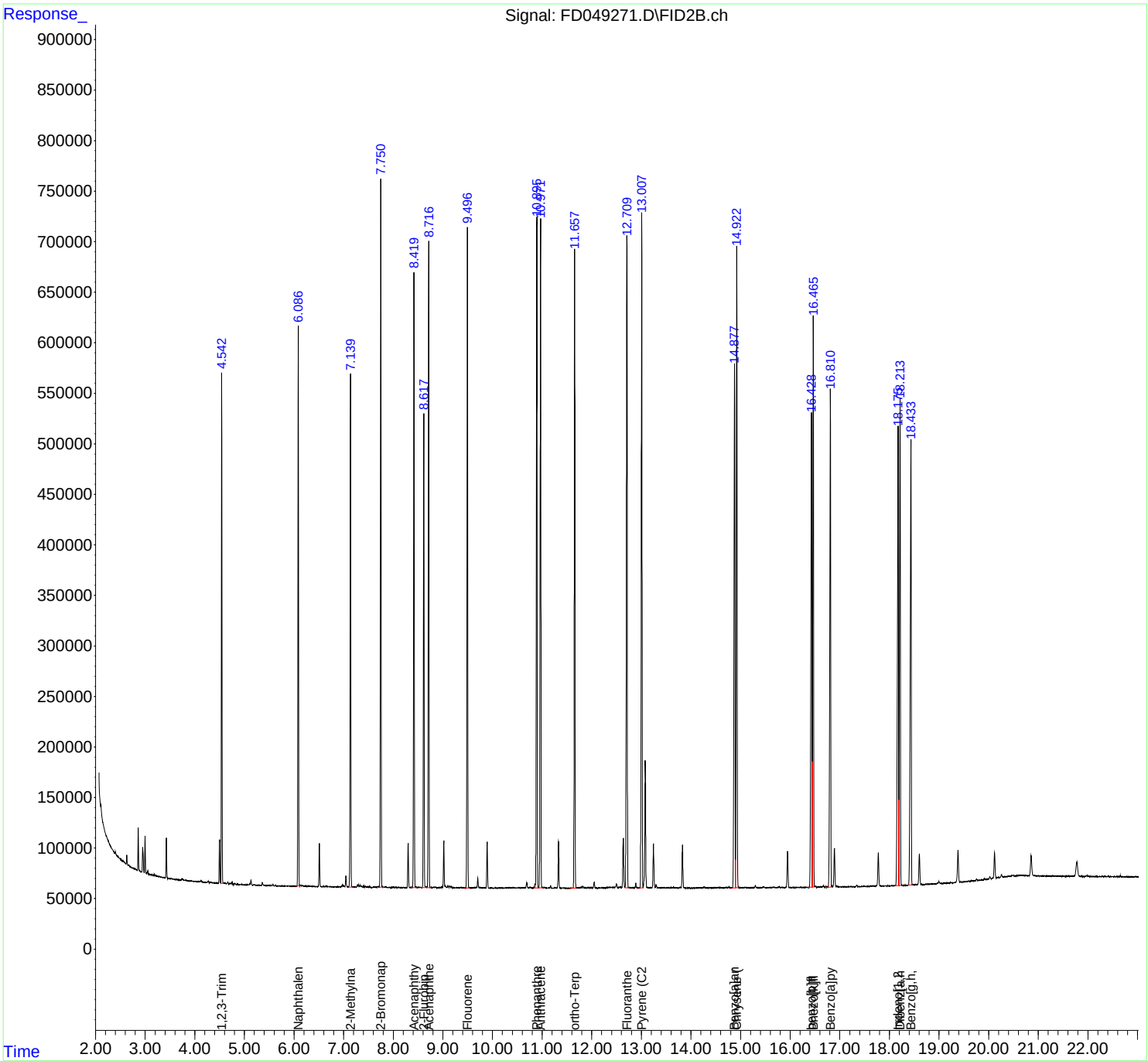
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049271.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:01
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 01:03:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049271.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 16:01
Sample : PB167513BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.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	4.542	4.519	4.590	VB	504901	4288364	57.24%	3.207%
2	6.086	6.037	6.150	BB	555073	5013350	66.91%	3.749%
3	7.140	7.100	7.197	PB	508931	4859873	64.86%	3.634%
4	7.750	7.719	7.815	BB	700818	6686285	89.24%	5.000%
5	8.419	8.359	8.474	BV	607684	5905050	78.81%	4.416%
6	8.617	8.555	8.684	BV	469396	4699720	62.73%	3.514%
7	8.716	8.684	8.775	VB	640256	6283963	83.87%	4.699%
8	9.497	9.424	9.542	BB	655414	6570594	87.70%	4.913%
9	10.895	10.863	10.934	VV	664850	7099181	94.75%	5.309%
10	10.971	10.934	11.024	VV	660930	7063026	94.27%	5.282%
11	11.657	11.559	11.702	BV	629038	6796630	90.71%	5.082%
12	12.709	12.669	12.765	VB	645086	7454671	99.50%	5.574%
13	13.008	12.937	13.034	BV	666253	7492447	100.00%	5.603%
14	14.877	14.800	14.896	BV	519498	6956927	92.85%	5.202%
15	14.922	14.896	14.969	VB	634429	7407680	98.87%	5.539%
16	16.428	16.352	16.444	BV	468371	6715936	89.64%	5.022%
17	16.465	16.444	16.492	VV	566554	6664102	88.94%	4.983%
18	16.810	16.705	16.838	BV	494552	6444018	86.01%	4.819%
19	18.175	18.110	18.189	BV	454792	6738227	89.93%	5.039%
20	18.214	18.189	18.274	VB	482378	6260702	83.56%	4.682%
21	18.433	18.370	18.474	BB	441559	6330050	84.49%	4.733%

Sum of corrected areas: 133730796

Aromatic EPH 040725.M Fri Apr 11 01:35:46 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068562.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:51
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 03:46:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.144	3378740	36.372 ug/ml
Spiked Amount	50.000		Recovery =	72.74%
	Target Compounds			
1) T	n-Nonane (C9)	3.445	2590000	24.591 ug/ml
2) T	n-Decane (C10)	4.520	3152325	29.920 ug/ml
4) T	n-Dodecane (C12)	6.544	3557036	33.824 ug/ml
6) T	n-Tetradecane (C14)	8.342	3996243	38.872 ug/ml
7) T	n-Hexadecane (C16)	9.945	4433156	43.530 ug/ml
8) T	n-Octadecane (C18)	11.388	4682520	46.531 ug/ml
10) T	n-Eicosane (C20)	12.699	4879459	49.608 ug/ml
11) T	n-Heneicosane (C21)	13.311	4681403	48.036 ug/ml
13) T	n-Docosane (C22)	13.898	4675280	48.401 ug/ml
14) T	n-Tetracosane (C24)	15.002	4605982	48.390 ug/ml
15) T	n-Hexacosane (C26)	16.023	4493132	48.104 ug/ml
16) T	n-Octacosane (C28)	16.975	4481288	48.945 ug/ml
17) T	n-Tricontane (C30)	17.864	4533322	49.312 ug/ml
18) T	n-Dotriacontane (C32)	18.698	4498769	49.044 ug/ml
19) T	n-Tetratriacontane (C34)	19.483	4437893	49.675 ug/ml
20) T	n-Hexatriacontane (C36)	20.224	4269087	47.657 ug/ml
21) T	n-Octatriacontane (C38)	20.999	4217418	47.702 ug/ml
22) T	n-Tetracontane (C40)	21.975	4186737	47.412 ug/ml

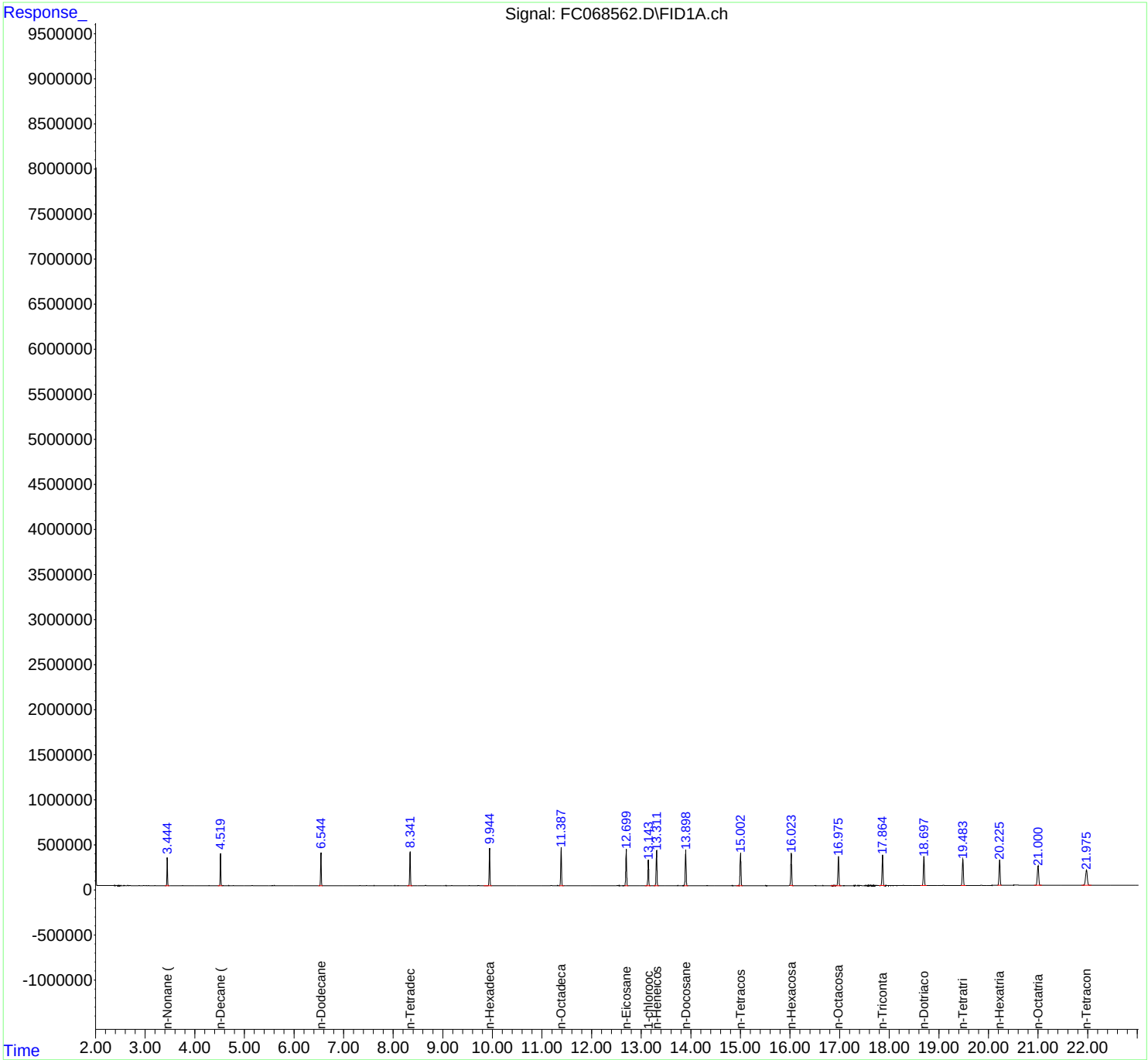
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068562.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:51
Operator : YP/AJ
Sample : PB167513BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167513BSD

Integration File: autoint1.e
Quant Time: Apr 11 03:46:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068562.D
Signal(s) : FID1A.ch
Acq On : 10 Apr 2025 22:51
Sample : PB167513BSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.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	3.445	3.395	3.488	BB	311051	2590000	53.08%	3.248%
2	4.520	4.465	4.555	BV	360380	3152325	64.60%	3.953%
3	6.544	6.492	6.577	BB	368696	3557036	72.90%	4.460%
4	8.342	8.280	8.387	BB	379510	3996243	81.90%	5.011%
5	9.945	9.823	9.992	BB	417831	4433156	90.85%	5.559%
6	11.388	11.347	11.437	BB	422975	4682520	95.96%	5.872%
7	12.699	12.663	12.738	BB	402700	4879459	100.00%	6.118%
8	13.144	13.075	13.190	BB	289729	3378740	69.24%	4.237%
9	13.311	13.250	13.352	BB	394244	4681403	95.94%	5.870%
10	13.898	13.862	13.942	VB	400411	4675280	95.82%	5.862%
11	15.002	14.913	15.047	BB	365565	4605982	94.40%	5.776%
12	16.023	15.990	16.070	BB	359806	4493132	92.08%	5.634%
13	16.975	16.818	17.033	BB	326442	4481288	91.84%	5.619%
14	17.864	17.795	17.917	BB	341396	4533322	92.91%	5.684%
15	18.698	18.628	18.752	BB	324430	4498769	92.20%	5.641%
16	19.483	19.440	19.540	BB	294081	4437893	90.95%	5.565%
17	20.224	20.180	20.267	BB	284624	4269087	87.49%	5.353%
18	20.999	20.917	21.075	BB	214407	4217418	86.43%	5.288%
19	21.975	21.878	22.075	BB	171086	4186737	85.80%	5.250%
			Sum of corrected areas:			79749786		

Aliphatic EPH 040925.M Fri Apr 11 04:49:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068567.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 01:55
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 03:48:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.145	3712633	39.966 ug/ml
Spiked Amount	50.000		Recovery =	79.93%
	Target Compounds			
1) T	n-Nonane (C9)	3.445	1597930	15.172 ug/ml
2) T	n-Decane (C10)	4.519	2034608	19.311 ug/ml
4) T	n-Dodecane (C12)	6.544	2670472	25.394 ug/ml
6) T	n-Tetradecane (C14)	8.342	3370380	32.784 ug/ml
7) T	n-Hexadecane (C16)	9.945	3951267	38.798 ug/ml
8) T	n-Octadecane (C18)	11.387	4052107	40.266 ug/ml
10) T	n-Eicosane (C20)	12.698	4152640	42.219 ug/ml
11) T	n-Heneicosane (C21)	13.311	3974185	40.779 ug/ml
13) T	n-Docosane (C22)	13.897	3941290	40.802 ug/ml
14) T	n-Tetracosane (C24)	15.002	4003738	42.063 ug/ml
15) T	n-Hexacosane (C26)	16.025	3808744	40.777 ug/ml
16) T	n-Octacosane (C28)	16.975	3785529	41.346 ug/ml
17) T	n-Tricontane (C30)	17.864	3836308	41.730 ug/ml
18) T	n-Dotriacontane (C32)	18.697	3807746	41.511 ug/ml
19) T	n-Tetratriacontane (C34)	19.482	3799314	42.527 ug/ml
20) T	n-Hexatriacontane (C36)	20.223	3701952	41.326 ug/ml
21) T	n-Octatriacontane (C38)	20.998	3710211	41.965 ug/ml
22) T	n-Tetracontane (C40)	21.974	3584183	40.588 ug/ml

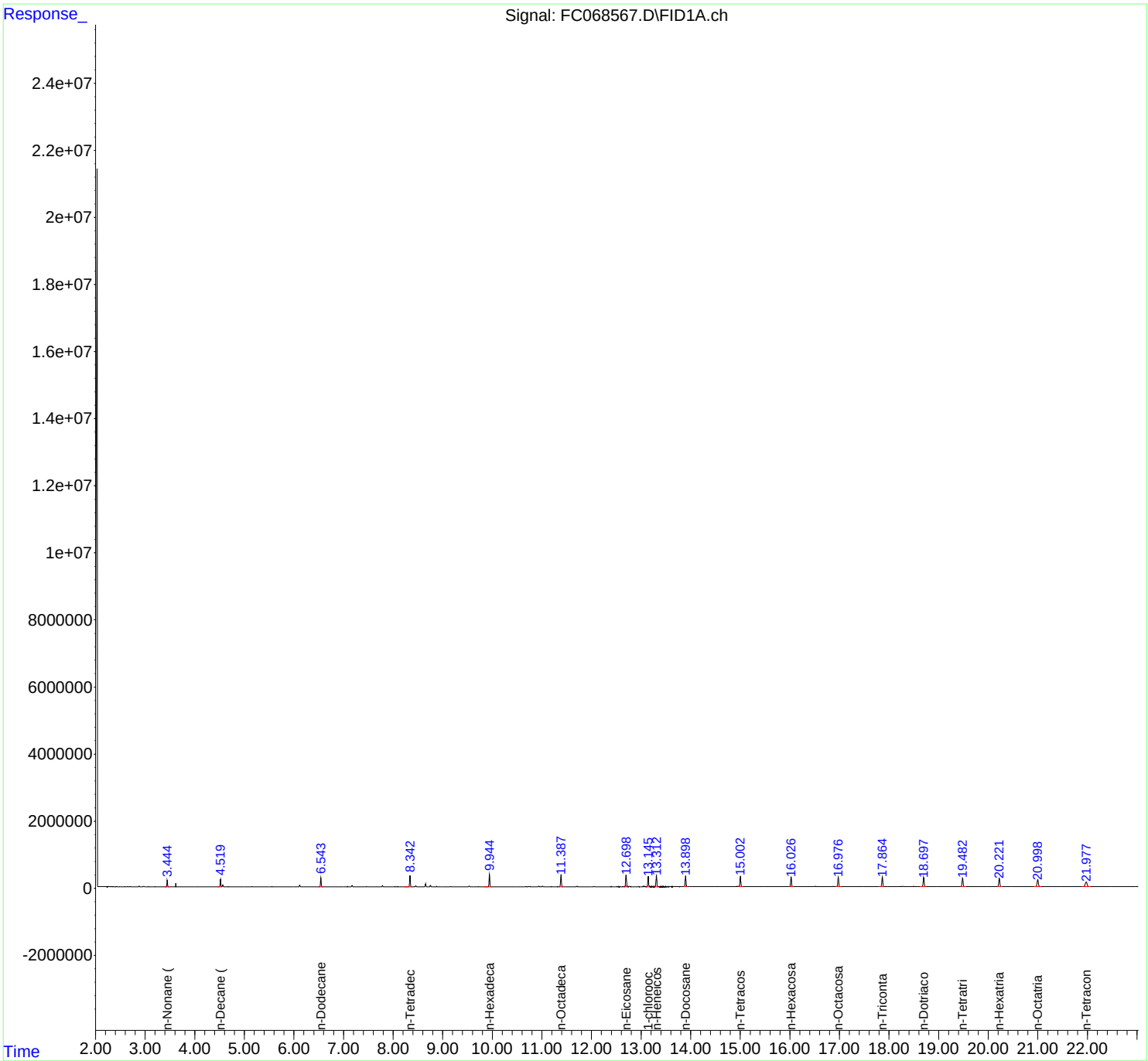
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068567.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 01:55
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 03:48:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068567.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 01:55
Sample : Q1746-01MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.361	2.321	2.398	BV	1365	4748	0.11%	0.006%
2	2.426	2.398	2.474	PV	4816	45725	1.10%	0.059%
3	2.490	2.474	2.509	PV	891	6940	0.17%	0.009%
4	2.519	2.509	2.560	VV	173	1376	0.03%	0.002%
5	2.589	2.560	2.624	VV	1995	17602	0.42%	0.023%
6	2.648	2.624	2.670	PV	6597	50846	1.22%	0.065%
7	2.697	2.670	2.741	VV	6964	63820	1.53%	0.082%
8	2.750	2.741	2.762	VV	167	1337	0.03%	0.002%
9	2.778	2.762	2.803	VV	566	4873	0.12%	0.006%
10	2.814	2.803	2.849	VV	359	3072	0.07%	0.004%
11	2.879	2.849	2.944	PV	20966	161183	3.88%	0.207%
12	2.969	2.944	3.002	VV	11148	135487	3.26%	0.174%
13	3.019	3.002	3.051	VV	789	7354	0.18%	0.009%
14	3.069	3.051	3.097	PV	1338	12015	0.29%	0.015%
15	3.107	3.097	3.132	VV	124	1035	0.02%	0.001%
16	3.147	3.132	3.177	PV	178	2409	0.06%	0.003%
17	3.197	3.177	3.247	VV	1337	12550	0.30%	0.016%
18	3.270	3.247	3.311	VV	183	3395	0.08%	0.004%
19	3.345	3.311	3.385	PV	126	2601	0.06%	0.003%
20	3.394	3.385	3.405	PV	120	928	0.02%	0.001%
21	3.445	3.405	3.518	VV	194805	1602269	38.53%	2.059%
22	3.524	3.518	3.535	VV	92	722	0.02%	0.001%
23	3.577	3.535	3.596	VV	259	4816	0.12%	0.006%
24	3.603	3.596	3.615	VV	148	1203	0.03%	0.002%
25	3.618	3.615	3.635	VV	39712	74567	1.79%	0.096%
26	3.649	3.635	3.683	VV	174	3011	0.07%	0.004%
27	3.724	3.683	3.744	VV	277	5268	0.13%	0.007%
28	3.770	3.744	3.808	VV	330	6923	0.17%	0.009%
29	3.824	3.808	3.855	VV	227	4384	0.11%	0.006%
30	3.861	3.855	3.881	VV	247	2669	0.06%	0.003%
31	3.893	3.881	3.931	VV	242	3646	0.09%	0.005%
32	3.946	3.931	3.981	VV	315	5066	0.12%	0.007%
33	3.991	3.981	4.011	VV	212	2621	0.06%	0.003%
34	4.028	4.011	4.087	VV	311	6598	0.16%	0.008%
35	4.120	4.087	4.132	VV	396	5946	0.14%	0.008%
36	4.148	4.132	4.200	VV	810	10240	0.25%	0.013%

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37	4.214	4.200	4.245	VV	266	3491	0.08%	0.004%
38	4.289	4.245	4.314	PV	653	11882	0.29%	0.015%
39	4.329	4.314	4.408	VV	193	7323	0.18%	0.009%
40	4.442	4.408	4.495	VV	207	7242	0.17%	0.009%
41	4.519	4.495	4.545	VV	226717	2040410	49.07%	2.622%
42	4.565	4.545	4.607	VV	55709	491726	11.83%	0.632%
43	4.627	4.607	4.652	VV	1085	13835	0.33%	0.018%
44	4.675	4.652	4.710	VV	1516	22820	0.55%	0.029%
45	4.747	4.710	4.760	VV	689	9292	0.22%	0.012%
46	4.776	4.760	4.798	VV	1215	12431	0.30%	0.016%
47	4.809	4.798	4.841	VV	218	3426	0.08%	0.004%
48	4.862	4.841	4.877	VV	139	2192	0.05%	0.003%
49	4.900	4.877	4.916	VV	191	2852	0.07%	0.004%
50	4.941	4.916	4.955	VV	238	3299	0.08%	0.004%
51	4.970	4.955	4.991	VV	189	2802	0.07%	0.004%
52	5.000	4.991	5.041	VV	250	3050	0.07%	0.004%
53	5.056	5.041	5.065	VV	140	1158	0.03%	0.001%
54	5.083	5.065	5.105	VV	222	2660	0.06%	0.003%
55	5.131	5.105	5.140	VV	478	4639	0.11%	0.006%
56	5.157	5.140	5.191	VV	2001	22870	0.55%	0.029%
57	5.215	5.191	5.233	VV	385	5029	0.12%	0.006%
58	5.244	5.233	5.254	VV	165	1445	0.03%	0.002%
59	5.264	5.254	5.311	VV	198	2758	0.07%	0.004%
60	5.349	5.311	5.373	VV	188	4199	0.10%	0.005%
61	5.384	5.373	5.418	VV	284	3650	0.09%	0.005%
62	5.460	5.418	5.474	VV	177	3828	0.09%	0.005%
63	5.481	5.474	5.495	VV	103	999	0.02%	0.001%
64	5.560	5.495	5.581	VV	1649	20321	0.49%	0.026%
65	5.602	5.581	5.643	VV	834	11003	0.26%	0.014%
66	5.659	5.643	5.678	VV	206	2456	0.06%	0.003%
67	5.688	5.678	5.704	VV	132	1367	0.03%	0.002%
68	5.751	5.704	5.780	VV	383	7219	0.17%	0.009%
69	5.804	5.780	5.825	VV	162	2790	0.07%	0.004%
70	5.851	5.825	5.885	VV	335	6530	0.16%	0.008%
71	5.910	5.885	5.966	VV	181	5796	0.14%	0.007%
72	5.977	5.966	5.992	VV	197	1646	0.04%	0.002%
73	6.015	5.992	6.037	PV	175	2599	0.06%	0.003%
74	6.064	6.037	6.074	VV	216	2527	0.06%	0.003%
75	6.116	6.074	6.146	VV	51996	481571	11.58%	0.619%
76	6.160	6.146	6.181	VV	369	5186	0.12%	0.007%
77	6.203	6.181	6.238	VV	676	10149	0.24%	0.013%
78	6.264	6.238	6.282	VV	429	6387	0.15%	0.008%
79	6.334	6.282	6.371	VV	263	8912	0.21%	0.011%
80	6.385	6.371	6.405	VV	191	2787	0.07%	0.004%
81	6.431	6.405	6.452	VV	262	4151	0.10%	0.005%
82	6.475	6.452	6.508	VV	191	4649	0.11%	0.006%
83	6.544	6.508	6.603	VV	272886	2675802	64.35%	3.439%
84	6.629	6.603	6.647	VV	289	4204	0.10%	0.005%
85	6.663	6.647	6.675	VV	267	2566	0.06%	0.003%
86	6.693	6.675	6.714	VV	1066	11591	0.28%	0.015%
87	6.729	6.714	6.747	VV	311	4244	0.10%	0.005%
88	6.766	6.747	6.783	VV	341	4443	0.11%	0.006%
89	6.804	6.783	6.850	VV	131	4468	0.11%	0.006%

rteres

90	6.873	6.850	6.920	VV	212	6013	0.14%	0.008%
91	6.942	6.920	6.968	VV	193	3897	0.09%	0.005%
92	6.987	6.968	7.016	VV	312	4510	0.11%	0.006%
93	7.041	7.016	7.061	VV	554	8321	0.20%	0.011%
94	7.081	7.061	7.133	VV	1529	23312	0.56%	0.030%
95	7.173	7.133	7.227	VV	44120	433371	10.42%	0.557%
96	7.248	7.227	7.271	VV	642	8117	0.20%	0.010%
97	7.273	7.271	7.290	VV	209	1212	0.03%	0.002%
98	7.330	7.290	7.354	VV	1063	16535	0.40%	0.021%
99	7.389	7.354	7.417	VV	228	5902	0.14%	0.008%
100	7.438	7.417	7.446	VV	281	3396	0.08%	0.004%
101	7.468	7.446	7.513	VV	2657	29627	0.71%	0.038%
102	7.537	7.513	7.548	VV	236	3528	0.08%	0.005%
103	7.561	7.548	7.581	VV	438	4496	0.11%	0.006%
104	7.597	7.581	7.625	VV	109	1903	0.05%	0.002%
105	7.652	7.625	7.670	VV	202	4056	0.10%	0.005%
106	7.680	7.670	7.713	VV	143	1784	0.04%	0.002%
107	7.731	7.713	7.755	VV	493	5543	0.13%	0.007%
108	7.785	7.755	7.874	VV	34243	332774	8.00%	0.428%
109	7.896	7.874	7.935	VV	360	7831	0.19%	0.010%
110	7.951	7.935	7.973	VV	260	3381	0.08%	0.004%
111	7.991	7.973	8.015	VV	304	3972	0.10%	0.005%
112	8.036	8.015	8.075	VV	1994	24223	0.58%	0.031%
113	8.093	8.075	8.116	VV	1687	18136	0.44%	0.023%
114	8.128	8.116	8.137	VV	222	1777	0.04%	0.002%
115	8.162	8.137	8.180	VV	520	7053	0.17%	0.009%
116	8.196	8.180	8.221	VV	245	4300	0.10%	0.006%
117	8.248	8.221	8.268	VV	691	9865	0.24%	0.013%
118	8.274	8.268	8.287	VV	305	2997	0.07%	0.004%
119	8.342	8.287	8.408	VV	330756	3377738	81.24%	4.341%
120	8.457	8.408	8.515	VV	28561	297777	7.16%	0.383%
121	8.532	8.515	8.557	VV	423	6661	0.16%	0.009%
122	8.572	8.557	8.606	VV	411	5748	0.14%	0.007%
123	8.615	8.606	8.622	VV	86	365	0.01%	0.000%
124	8.655	8.622	8.685	PV	82566	806389	19.39%	1.036%
125	8.693	8.685	8.725	VV	410	7294	0.18%	0.009%
126	8.754	8.725	8.792	VV	43798	439600	10.57%	0.565%
127	8.806	8.792	8.819	VV	409	5553	0.13%	0.007%
128	8.831	8.819	8.853	VV	392	6950	0.17%	0.009%
129	8.878	8.853	8.918	VV	1515	23180	0.56%	0.030%
130	8.939	8.918	8.981	VV	271	5323	0.13%	0.007%
131	8.997	8.981	9.013	VV	270	2674	0.06%	0.003%
132	9.028	9.013	9.041	VV	237	2167	0.05%	0.003%
133	9.063	9.041	9.082	VV	1238	15038	0.36%	0.019%
134	9.102	9.082	9.135	VV	629	12398	0.30%	0.016%
135	9.163	9.135	9.211	VV	2456	46275	1.11%	0.059%
136	9.221	9.211	9.238	VV	284	3233	0.08%	0.004%
137	9.251	9.238	9.288	VV	319	4603	0.11%	0.006%
138	9.304	9.288	9.336	VV	276	3579	0.09%	0.005%
139	9.353	9.336	9.367	VV	124	1701	0.04%	0.002%
140	9.421	9.367	9.434	VV	323	6786	0.16%	0.009%
141	9.465	9.434	9.507	VV	513	10308	0.25%	0.013%

rteres

142	9.537	9.507	9.567	VV	21311	223344	5.37%	0.287%
143	9.582	9.567	9.601	VV	664	9141	0.22%	0.012%
144	9.621	9.601	9.645	VV	384	7055	0.17%	0.009%
145	9.672	9.645	9.701	VV	575	10953	0.26%	0.014%
146	9.723	9.701	9.741	VV	1992	22127	0.53%	0.028%
147	9.753	9.741	9.775	VV	717	7629	0.18%	0.010%
148	9.782	9.775	9.798	VV	187	1554	0.04%	0.002%
149	9.815	9.798	9.843	VV	651	7742	0.19%	0.010%
150	9.865	9.843	9.905	VV	414	9447	0.23%	0.012%
151	9.945	9.905	9.994	VV	366226	3942971	94.83%	5.067%
152	10.027	9.994	10.039	VV	297	5660	0.14%	0.007%
153	10.045	10.039	10.082	VV	250	3714	0.09%	0.005%
154	10.095	10.082	10.108	VV	116	996	0.02%	0.001%
155	10.115	10.108	10.190	VV	130	2178	0.05%	0.003%
156	10.222	10.190	10.236	PV	204	1729	0.04%	0.002%
157	10.265	10.236	10.301	PV	256	5605	0.13%	0.007%
158	10.333	10.301	10.357	VV	1087	16490	0.40%	0.021%
159	10.377	10.357	10.396	VV	378	6128	0.15%	0.008%
160	10.423	10.396	10.457	VV	381	8246	0.20%	0.011%
161	10.477	10.457	10.521	VV	348	6631	0.16%	0.009%
162	10.542	10.521	10.558	VV	225	3762	0.09%	0.005%
163	10.575	10.558	10.598	VV	276	5544	0.13%	0.007%
164	10.614	10.598	10.644	VV	371	7834	0.19%	0.010%
165	10.681	10.644	10.712	VV	2627	36933	0.89%	0.047%
166	10.752	10.712	10.788	VV	2160	51950	1.25%	0.067%
167	10.813	10.788	10.859	VV	572	12353	0.30%	0.016%
168	10.869	10.859	10.914	VV	199	6198	0.15%	0.008%
169	10.940	10.914	10.979	VV	19379	206014	4.95%	0.265%
170	11.014	10.979	11.042	VV	20793	214639	5.16%	0.276%
171	11.055	11.042	11.071	VV	382	5346	0.13%	0.007%
172	11.078	11.071	11.089	VV	359	3612	0.09%	0.005%
173	11.097	11.089	11.121	VV	343	5649	0.14%	0.007%
174	11.136	11.121	11.161	VV	324	4475	0.11%	0.006%
175	11.189	11.161	11.227	VV	1091	13837	0.33%	0.018%
176	11.248	11.227	11.266	VV	66	847	0.02%	0.001%
177	11.316	11.266	11.346	PV	973	13939	0.34%	0.018%
178	11.387	11.346	11.448	VV	357492	4058010	97.60%	5.215%
179	11.478	11.448	11.524	VV	883	14237	0.34%	0.018%
180	11.542	11.524	11.559	PV	197	1907	0.05%	0.002%
181	11.576	11.559	11.588	VV	102	907	0.02%	0.001%
182	11.595	11.588	11.603	VV	59	508	0.01%	0.001%
183	11.709	11.603	11.735	VV	12394	140366	3.38%	0.180%
184	11.743	11.735	11.759	VV	415	3939	0.09%	0.005%
185	11.780	11.759	11.806	VV	606	9107	0.22%	0.012%
186	11.839	11.806	11.858	VV	401	8846	0.21%	0.011%
187	11.869	11.858	11.885	VV	389	4610	0.11%	0.006%
188	11.898	11.885	11.918	VV	285	3656	0.09%	0.005%
189	11.935	11.918	11.958	VV	188	4093	0.10%	0.005%
190	11.960	11.958	11.969	VV	230	958	0.02%	0.001%
191	12.054	11.969	12.088	VV	3079	51211	1.23%	0.066%
192	12.104	12.088	12.127	VV	350	5947	0.14%	0.008%
193	12.150	12.127	12.171	VV	563	8629	0.21%	0.011%
194	12.214	12.171	12.238	VV	276	8029	0.19%	0.010%

rteres

195	12.277	12.238	12.305	VV	574	12031	0.29%	0.015%
196	12.346	12.305	12.375	VV	558	15509	0.37%	0.020%
197	12.392	12.375	12.407	VV	758	9641	0.23%	0.012%
198	12.419	12.407	12.455	VV	423	9918	0.24%	0.013%
199	12.467	12.455	12.479	VV	524	6073	0.15%	0.008%
200	12.521	12.479	12.548	VV	1320	31527	0.76%	0.041%
201	12.558	12.548	12.599	VV	831	12289	0.30%	0.016%
202	12.637	12.599	12.660	VV	865	15501	0.37%	0.020%
203	12.698	12.660	12.733	VV	353622	4157981	100.00%	5.343%
204	12.759	12.733	12.808	VV	14344	170674	4.10%	0.219%
205	12.818	12.808	12.836	VV	306	3960	0.10%	0.005%
206	12.843	12.836	12.890	VV	173	3461	0.08%	0.004%
207	12.949	12.890	13.009	VV	635	16474	0.40%	0.021%
208	13.019	13.009	13.030	VV	220	2268	0.05%	0.003%
209	13.059	13.030	13.086	VV	18174	202416	4.87%	0.260%
210	13.145	13.086	13.180	VV	313804	3730316	89.71%	4.794%
211	13.194	13.180	13.221	VV	479	8887	0.21%	0.011%
212	13.228	13.221	13.234	VV	378	2329	0.06%	0.003%
213	13.245	13.234	13.268	VV	392	6744	0.16%	0.009%
214	13.311	13.268	13.347	VV	333983	3989556	95.95%	5.127%
215	13.363	13.347	13.376	VV	554	7792	0.19%	0.010%
216	13.380	13.376	13.438	VV	426	11790	0.28%	0.015%
217	13.448	13.438	13.456	VV	292	2508	0.06%	0.003%
218	13.481	13.456	13.505	VV	363	7315	0.18%	0.009%
219	13.543	13.505	13.558	VV	483	12082	0.29%	0.016%
220	13.579	13.558	13.627	VV	469	14492	0.35%	0.019%
221	13.654	13.627	13.670	VV	542	10053	0.24%	0.013%
222	13.688	13.670	13.715	VV	798	13845	0.33%	0.018%
223	13.738	13.715	13.778	VV	1130	23216	0.56%	0.030%
224	13.810	13.778	13.825	VV	402	9671	0.23%	0.012%
225	13.843	13.825	13.860	VV	885	13480	0.32%	0.017%
226	13.897	13.860	13.941	VV	324231	3955508	95.13%	5.083%
227	13.955	13.941	13.976	VV	529	8733	0.21%	0.011%
228	13.987	13.976	14.008	VV	379	5367	0.13%	0.007%
229	14.033	14.008	14.086	VV	318	11109	0.27%	0.014%
230	14.123	14.086	14.168	VV	619	19802	0.48%	0.025%
231	14.191	14.168	14.242	VV	354	13684	0.33%	0.018%
232	14.258	14.242	14.275	VV	345	5873	0.14%	0.008%
233	14.331	14.275	14.358	VV	1410	31156	0.75%	0.040%
234	14.369	14.358	14.385	VV	430	5763	0.14%	0.007%
235	14.392	14.385	14.408	VV	360	4734	0.11%	0.006%
236	14.416	14.408	14.432	VV	496	5706	0.14%	0.007%
237	14.458	14.432	14.482	VV	1666	24080	0.58%	0.031%
238	14.530	14.482	14.548	VV	413	11491	0.28%	0.015%
239	14.560	14.548	14.578	VV	433	6165	0.15%	0.008%
240	14.582	14.578	14.608	VV	401	5621	0.14%	0.007%
241	14.624	14.608	14.641	VV	318	4898	0.12%	0.006%
242	14.659	14.641	14.703	VV	418	11154	0.27%	0.014%
243	14.725	14.703	14.798	VV	476	17902	0.43%	0.023%
244	14.854	14.798	14.878	VV	490	16702	0.40%	0.021%
245	14.936	14.878	14.957	VV	9767	119333	2.87%	0.153%
246	15.002	14.957	15.125	VV	316467	4025807	96.82%	5.173%

rteres

247	15.144	15.125	15.157	VV	151	2502	0.06%	0.003%
248	15.198	15.157	15.213	VV	331	6759	0.16%	0.009%
249	15.246	15.213	15.262	VV	303	7014	0.17%	0.009%
250	15.270	15.262	15.298	VV	263	3264	0.08%	0.004%
251	15.334	15.298	15.360	VV	399	8884	0.21%	0.011%
252	15.386	15.360	15.408	VV	319	5816	0.14%	0.007%
253	15.426	15.408	15.445	VV	286	4970	0.12%	0.006%
254	15.450	15.445	15.468	VV	259	2628	0.06%	0.003%
255	15.481	15.468	15.498	VV	207	2867	0.07%	0.004%
256	15.519	15.498	15.575	VV	2053	31726	0.76%	0.041%
257	15.577	15.575	15.590	VV	251	1545	0.04%	0.002%
258	15.608	15.590	15.655	VV	245	4986	0.12%	0.006%
259	15.670	15.655	15.682	VV	249	2658	0.06%	0.003%
260	15.701	15.682	15.738	VV	335	6693	0.16%	0.009%
261	15.750	15.738	15.778	VV	283	5388	0.13%	0.007%
262	15.789	15.778	15.811	VV	257	3935	0.09%	0.005%
263	15.854	15.811	15.898	VV	370	11703	0.28%	0.015%
264	15.911	15.898	15.928	VV	231	3076	0.07%	0.004%
265	15.948	15.928	15.958	VV	210	2593	0.06%	0.003%
266	16.024	15.958	16.098	VV	288666	3847135	92.52%	4.944%
267	16.120	16.098	16.135	VV	193	1870	0.04%	0.002%
268	16.145	16.135	16.165	PV	91	788	0.02%	0.001%
269	16.189	16.165	16.209	VV	333	5931	0.14%	0.008%
270	16.243	16.209	16.288	VV	372	9776	0.24%	0.013%
271	16.313	16.288	16.321	VV	282	3918	0.09%	0.005%
272	16.336	16.321	16.360	VV	349	5431	0.13%	0.007%
273	16.395	16.360	16.437	VV	356	9894	0.24%	0.013%
274	16.493	16.437	16.508	VV	8157	112602	2.71%	0.145%
275	16.523	16.508	16.561	VV	7511	101820	2.45%	0.131%
276	16.576	16.561	16.614	VV	310	7716	0.19%	0.010%
277	16.667	16.614	16.715	VV	532	23143	0.56%	0.030%
278	16.750	16.715	16.767	VV	457	10901	0.26%	0.014%
279	16.783	16.767	16.798	VV	402	6350	0.15%	0.008%
280	16.812	16.798	16.833	VV	478	8437	0.20%	0.011%
281	16.873	16.833	16.907	VV	7177	101829	2.45%	0.131%
282	16.975	16.907	17.035	VV	282540	3806798	91.55%	4.892%
283	17.052	17.035	17.082	VV	440	10887	0.26%	0.014%
284	17.119	17.082	17.153	VV	520	17469	0.42%	0.022%
285	17.230	17.153	17.271	VV	608	31759	0.76%	0.041%
286	17.298	17.271	17.347	VV	822	21683	0.52%	0.028%
287	17.422	17.347	17.461	VV	2866	61191	1.47%	0.079%
288	17.467	17.461	17.488	VV	467	5620	0.14%	0.007%
289	17.554	17.488	17.582	VV	790	24312	0.58%	0.031%
290	17.603	17.582	17.618	VV	342	6213	0.15%	0.008%
291	17.629	17.618	17.634	VV	358	2581	0.06%	0.003%
292	17.647	17.634	17.678	VV	457	8417	0.20%	0.011%
293	17.685	17.678	17.698	VV	273	2771	0.07%	0.004%
294	17.752	17.698	17.797	VV	3316	64106	1.54%	0.082%
295	17.864	17.797	17.902	VV	287729	3852341	92.65%	4.951%
296	17.915	17.902	17.935	VV	413	5821	0.14%	0.007%
297	17.952	17.935	17.975	VV	323	6731	0.16%	0.009%
298	18.022	17.975	18.096	VV	1431	43473	1.05%	0.056%
299	18.129	18.096	18.161	VV	303	8754	0.21%	0.011%

rteres

300	18.242	18.161	18.261	VV	5814	84228	2.03%	0.108%
301	18.284	18.261	18.330	VV	9504	125960	3.03%	0.162%
302	18.388	18.330	18.448	PV	1170	28992	0.70%	0.037%
303	18.497	18.448	18.530	VV	5384	71081	1.71%	0.091%
304	18.549	18.530	18.571	VV	358	6297	0.15%	0.008%
305	18.591	18.571	18.606	VV	300	4428	0.11%	0.006%
306	18.615	18.606	18.626	VV	168	1207	0.03%	0.002%
307	18.697	18.626	18.778	PV	269072	3814394	91.74%	4.902%
308	18.814	18.778	18.838	VV	791	14442	0.35%	0.019%
309	18.863	18.838	18.905	VV	664	14384	0.35%	0.018%
310	18.919	18.905	18.935	VV	261	3802	0.09%	0.005%
311	18.949	18.935	18.968	VV	320	5036	0.12%	0.006%
312	18.985	18.968	19.021	VV	291	7565	0.18%	0.010%
313	19.093	19.021	19.121	VV	4723	77663	1.87%	0.100%
314	19.142	19.121	19.183	VV	535	12648	0.30%	0.016%
315	19.210	19.183	19.242	VV	530	12974	0.31%	0.017%
316	19.276	19.242	19.309	VV	509	14496	0.35%	0.019%
317	19.345	19.309	19.368	VV	550	14853	0.36%	0.019%
318	19.482	19.368	19.570	VV	252656	3859492	92.82%	4.960%
319	19.633	19.570	19.652	VV	919	34616	0.83%	0.044%
320	19.726	19.652	19.741	VV	923	41627	1.00%	0.053%
321	19.788	19.741	19.808	VV	981	35408	0.85%	0.046%
322	19.853	19.808	19.891	VV	2328	66566	1.60%	0.086%
323	20.032	19.891	20.055	VV	1446	119037	2.86%	0.153%
324	20.126	20.055	20.158	VV	2072	100114	2.41%	0.129%
325	20.223	20.158	20.285	VV	250821	3837761	92.30%	4.932%
326	20.306	20.285	20.327	VV	2034	48012	1.15%	0.062%
327	20.361	20.327	20.372	VV	2083	53855	1.30%	0.069%
328	20.389	20.372	20.414	VV	2149	50511	1.21%	0.065%
329	20.444	20.414	20.461	VV	2032	56726	1.36%	0.073%
330	20.500	20.461	20.518	VV	2049	66708	1.60%	0.086%
331	20.585	20.518	20.630	VV	2925	142540	3.43%	0.183%
332	20.735	20.630	20.757	VV	2089	144113	3.47%	0.185%
333	20.784	20.757	20.871	VV	2011	121783	2.93%	0.156%
334	20.880	20.871	20.922	VV	1611	47309	1.14%	0.061%
335	20.998	20.922	21.088	VV	204860	3850908	92.61%	4.949%
336	21.097	21.088	21.138	VV	1433	40839	0.98%	0.052%
337	21.147	21.138	21.188	VV	1291	37977	0.91%	0.049%
338	21.196	21.188	21.201	VV	1264	9792	0.24%	0.013%
339	21.209	21.201	21.231	VV	1204	21275	0.51%	0.027%
340	21.243	21.231	21.301	VV	1213	47326	1.14%	0.061%
341	21.340	21.301	21.401	VV	1137	59782	1.44%	0.077%
342	21.448	21.401	21.490	VV	1523	59316	1.43%	0.076%
343	21.502	21.490	21.541	VV	844	23494	0.57%	0.030%
344	21.549	21.541	21.558	VV	823	7633	0.18%	0.010%
345	21.597	21.558	21.627	VV	811	31046	0.75%	0.040%
346	21.639	21.627	21.678	VV	747	22424	0.54%	0.029%
347	21.689	21.678	21.726	VV	757	19679	0.47%	0.025%
348	21.741	21.726	21.778	VV	659	17107	0.41%	0.022%
349	21.815	21.778	21.824	VV	492	13142	0.32%	0.017%
350	21.832	21.824	21.895	VV	494	18319	0.44%	0.024%
351	21.975	21.895	22.103	VV	141554	3619007	87.04%	4.651%

rteres

352	22.131	22.103	22.142	VV	258	5066	0.12%	0.007%
353	22.152	22.142	22.165	VV	197	2510	0.06%	0.003%
354	22.179	22.165	22.218	VV	172	4378	0.11%	0.006%
355	22.236	22.218	22.272	VV	162	4103	0.10%	0.005%
356	22.281	22.272	22.302	VV	125	1522	0.04%	0.002%
357	22.323	22.302	22.331	VV	109	1280	0.03%	0.002%

Sum of corrected areas: 77816733

Aliphatic EPH 040925.M Fri Apr 11 04:58:41 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049276.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:07
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 01:05:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.750	5519783	37.262 ug/ml
	Spiked Amount 50.000		Recovery =	74.52%
6)	S 2-Flurobiphenyl (SURR)	8.615	3189374	31.268 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	62.54%
11)	S ortho-Terphenyl (SURR)	11.658	5506873	31.256 ug/ml
	Spiked Amount 50.000		Recovery =	62.51%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.541	2233228	14.903 ug/ml
2)	T Naphthalene (C11.7)	6.086	3179791	19.420 ug/ml
3)	T 2-Methylnaphthalene (...	7.139	3544934	21.916 ug/ml
5)	T Acenaphthylene (C15.06)	8.419	5104656	28.899 ug/ml
7)	T Acenaphthene (C15.5)	8.715	5084253	29.511 ug/ml
8)	T Flouorene (C16.55)	9.496	5959872	34.177 ug/ml
9)	T Phenanthrene (C19.36)	10.895	6459746	37.641 ug/ml
10)	T Anthracene (C19.43)	10.970	6192020	39.415 ug/ml
12)	T Fluoranthene (C21.85)	12.709	6940271	41.060 ug/ml
13)	T Pyrene (C20.8)	13.008	6682851	39.846 ug/ml
14)	T Benzo[a]anthracene (C...	14.877	6258466	43.539 ug/ml
15)	T Chrysene (C27.41)	14.922	6789279	47.052 ug/ml
16)	T benzo[b]fluoranthene ...	16.428	6006098	43.171 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.463	5846624	42.749 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.809	5592066	43.004 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.174	5965719	48.393 ug/ml
20)	T Dibenz[a,h]anthracene...	18.213	5470332	43.262 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.432	5548772	42.503 ug/ml

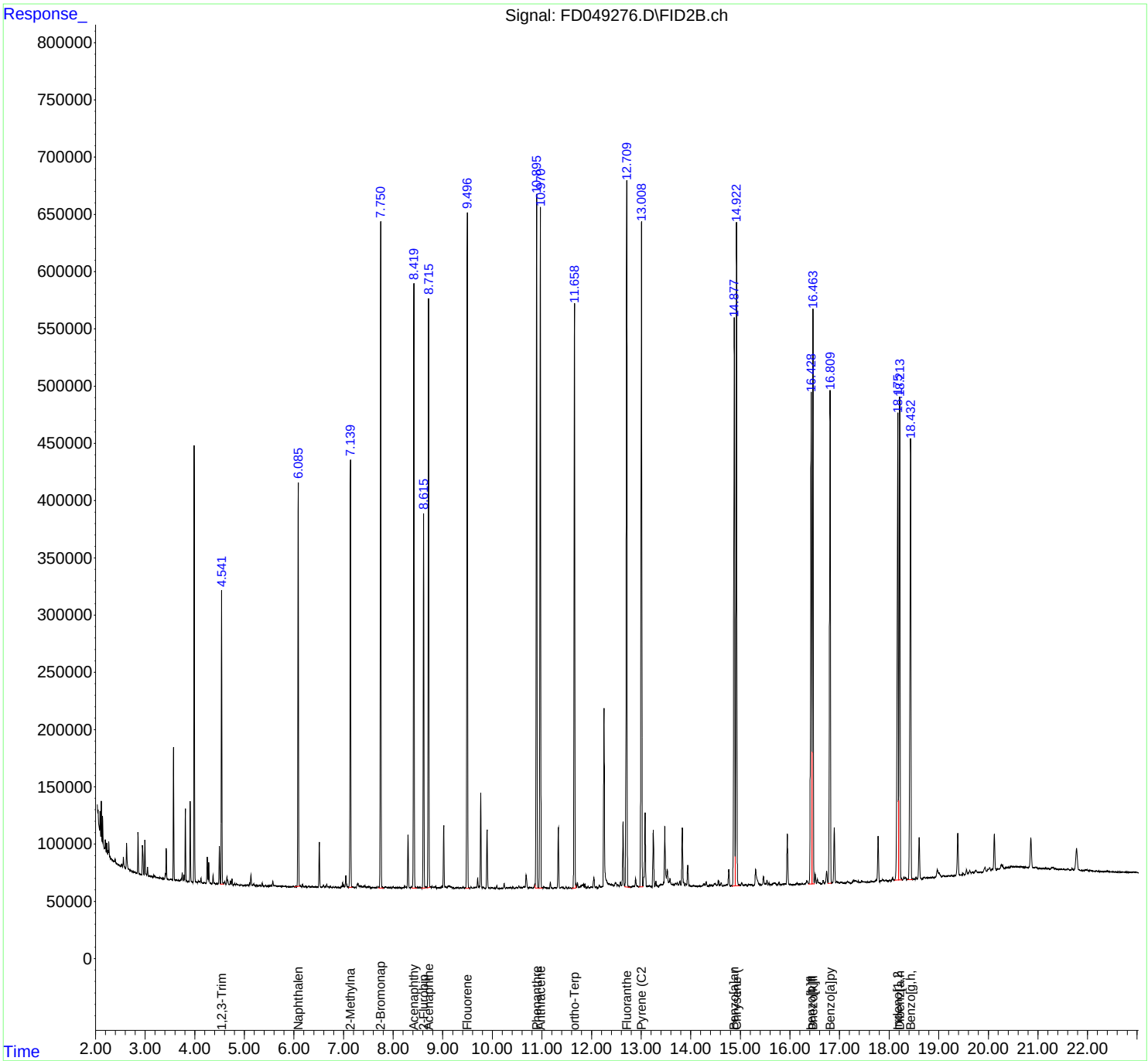
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049276.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:07
Operator : YP/AJ
Sample : Q1746-01MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MS

Integration File: autoint1.e
Quant Time: Apr 11 01:05:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049276.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:07
Sample : Q1746-01MS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.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	4.073	4.042	4.086	BV	1590	12825	0.18%	0.009%
2	4.098	4.086	4.111	VV	1333	13210	0.19%	0.009%
3	4.126	4.111	4.175	VV	3992	37866	0.54%	0.026%
4	4.190	4.175	4.217	PV	494	6815	0.10%	0.005%
5	4.253	4.227	4.269	VV	23066	252123	3.61%	0.174%
6	4.283	4.269	4.319	VV	18477	175339	2.51%	0.121%
7	4.321	4.319	4.332	VV	357	1311	0.02%	0.001%
8	4.369	4.342	4.408	VV	7575	68736	0.98%	0.047%
9	4.413	4.408	4.424	VV	191	1010	0.01%	0.001%
10	4.432	4.424	4.440	PV	238	1207	0.02%	0.001%
11	4.455	4.440	4.472	VV	487	5280	0.08%	0.004%
12	4.497	4.472	4.518	VV	32928	295672	4.24%	0.203%
13	4.541	4.518	4.580	VV	257174	2239790	32.09%	1.541%
14	4.604	4.580	4.627	VV	2193	35335	0.51%	0.024%
15	4.648	4.627	4.660	VV	6863	69796	1.00%	0.048%
16	4.665	4.660	4.694	VV	3915	34940	0.50%	0.024%
17	4.722	4.694	4.736	VV	3334	34563	0.50%	0.024%
18	4.752	4.736	4.779	VV	5404	49716	0.71%	0.034%
19	4.788	4.779	4.791	PV	268	1044	0.01%	0.001%
20	4.804	4.791	4.820	VV	1686	14665	0.21%	0.010%
21	4.840	4.820	4.866	VV	1674	21049	0.30%	0.014%
22	4.871	4.866	4.880	VV	601	4401	0.06%	0.003%
23	4.885	4.880	4.908	VV	535	5399	0.08%	0.004%
24	4.915	4.908	4.925	VV	401	2700	0.04%	0.002%
25	4.944	4.925	4.993	VV	751	11609	0.17%	0.008%
26	5.006	4.993	5.019	PV	303	2866	0.04%	0.002%
27	5.023	5.019	5.035	VV	239	1579	0.02%	0.001%
28	5.058	5.035	5.084	VV	782	12919	0.19%	0.009%
29	5.106	5.084	5.116	VV	2493	26349	0.38%	0.018%
30	5.133	5.116	5.165	VV	9664	108627	1.56%	0.075%
31	5.190	5.165	5.208	VV	1896	24906	0.36%	0.017%
32	5.213	5.208	5.224	VV	302	1973	0.03%	0.001%
33	5.255	5.224	5.272	VV	613	9934	0.14%	0.007%
34	5.307	5.272	5.313	VV	652	8838	0.13%	0.006%
35	5.324	5.313	5.344	VV	799	10291	0.15%	0.007%
36	5.359	5.344	5.399	VV	2808	32985	0.47%	0.023%

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37	5.419	5.399	5.431	VV	499	5964	0.09%	0.004%
38	5.436	5.431	5.473	VV	353	4674	0.07%	0.003%
39	5.499	5.473	5.512	PV	652	6995	0.10%	0.005%
40	5.534	5.512	5.552	VV	1307	14227	0.20%	0.010%
41	5.575	5.552	5.618	VV	4693	63595	0.91%	0.044%
42	5.632	5.618	5.667	VV	1098	16294	0.23%	0.011%
43	5.699	5.667	5.748	VV	813	21588	0.31%	0.015%
44	5.774	5.748	5.795	VV	636	9634	0.14%	0.007%
45	5.801	5.795	5.804	VV	226	1019	0.01%	0.001%
46	5.820	5.804	5.840	VV	559	7721	0.11%	0.005%
47	5.846	5.840	5.849	VV	296	1098	0.02%	0.001%
48	5.855	5.849	5.865	VV	334	2305	0.03%	0.002%
49	5.870	5.865	5.904	VV	323	3961	0.06%	0.003%
50	5.910	5.904	5.930	VV	288	1712	0.02%	0.001%
51	5.939	5.930	5.956	PV	364	3591	0.05%	0.002%
52	5.962	5.956	5.975	VV	268	2329	0.03%	0.002%
53	5.984	5.975	5.988	VV	392	2369	0.03%	0.002%
54	5.994	5.988	6.015	VV	573	4704	0.07%	0.003%
55	6.021	6.015	6.045	VV	445	6303	0.09%	0.004%
56	6.086	6.045	6.117	VV	353130	3205088	45.92%	2.206%
57	6.131	6.117	6.155	VV	1428	19849	0.28%	0.014%
58	6.173	6.155	6.212	VV	2286	30638	0.44%	0.021%
59	6.231	6.212	6.273	VV	740	15924	0.23%	0.011%
60	6.304	6.273	6.343	VV	903	18215	0.26%	0.013%
61	6.347	6.343	6.350	VV	320	1197	0.02%	0.001%
62	6.364	6.350	6.386	VV	838	11857	0.17%	0.008%
63	6.390	6.386	6.412	VV	429	5425	0.08%	0.004%
64	6.416	6.412	6.422	VV	350	1588	0.02%	0.001%
65	6.426	6.422	6.432	VV	315	1380	0.02%	0.001%
66	6.438	6.432	6.445	VV	346	1785	0.03%	0.001%
67	6.461	6.445	6.487	VV	321	5365	0.08%	0.004%
68	6.512	6.487	6.560	VV	39583	387583	5.55%	0.267%
69	6.562	6.560	6.567	VV	508	1531	0.02%	0.001%
70	6.595	6.567	6.616	VV	1887	26731	0.38%	0.018%
71	6.633	6.616	6.647	VV	1135	12169	0.17%	0.008%
72	6.661	6.647	6.681	VV	3050	33834	0.48%	0.023%
73	6.692	6.681	6.716	VV	922	11412	0.16%	0.008%
74	6.733	6.716	6.753	VV	1503	17535	0.25%	0.012%
75	6.766	6.753	6.775	VV	518	4390	0.06%	0.003%
76	6.790	6.775	6.816	VV	583	8069	0.12%	0.006%
77	6.838	6.816	6.852	VV	600	7828	0.11%	0.005%
78	6.887	6.852	6.901	VV	415	8580	0.12%	0.006%
79	6.908	6.901	6.927	VV	398	2725	0.04%	0.002%
80	6.954	6.927	6.967	PV	1169	15023	0.22%	0.010%
81	6.981	6.967	6.994	VV	4534	42925	0.61%	0.030%
82	7.006	6.994	7.028	VV	2103	31674	0.45%	0.022%
83	7.047	7.028	7.102	VV	10905	138968	1.99%	0.096%
84	7.139	7.102	7.174	VV	373824	3566626	51.10%	2.455%
85	7.185	7.174	7.210	VV	962	15265	0.22%	0.011%
86	7.224	7.210	7.233	VV	656	7212	0.10%	0.005%
87	7.241	7.233	7.258	VV	719	7897	0.11%	0.005%
88	7.277	7.258	7.283	VV	3227	30760	0.44%	0.021%
89	7.294	7.283	7.313	VV	4004	47824	0.69%	0.033%

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90	7.329	7.313	7.342	VV	2206	27684	0.40%	0.019%
91	7.355	7.342	7.385	VV	1768	30586	0.44%	0.021%
92	7.403	7.385	7.416	VV	1839	21622	0.31%	0.015%
93	7.430	7.416	7.454	VV	2104	26840	0.38%	0.018%
94	7.478	7.454	7.486	VV	923	13083	0.19%	0.009%
95	7.498	7.486	7.508	VV	1130	12788	0.18%	0.009%
96	7.525	7.508	7.545	VV	1520	20523	0.29%	0.014%
97	7.550	7.545	7.566	VV	330	2861	0.04%	0.002%
98	7.573	7.566	7.583	VV	334	2712	0.04%	0.002%
99	7.589	7.583	7.598	VV	473	3009	0.04%	0.002%
100	7.607	7.598	7.627	VV	620	7106	0.10%	0.005%
101	7.634	7.627	7.639	VV	369	1829	0.03%	0.001%
102	7.648	7.639	7.653	VV	554	3387	0.05%	0.002%
103	7.660	7.653	7.678	VV	765	7078	0.10%	0.005%
104	7.694	7.678	7.713	VV	1607	19387	0.28%	0.013%
105	7.750	7.713	7.795	VV	582343	5522516	79.12%	3.801%
106	7.798	7.795	7.814	VV	439	3275	0.05%	0.002%
107	7.839	7.814	7.850	VV	1026	14467	0.21%	0.010%
108	7.859	7.850	7.878	VV	1073	12191	0.17%	0.008%
109	7.889	7.878	7.904	VV	541	6209	0.09%	0.004%
110	7.922	7.904	7.935	VV	434	5543	0.08%	0.004%
111	7.956	7.935	7.980	VV	695	8797	0.13%	0.006%
112	7.998	7.980	8.020	VV	1438	16945	0.24%	0.012%
113	8.024	8.020	8.039	VV	528	3926	0.06%	0.003%
114	8.055	8.039	8.072	VV	654	6657	0.10%	0.005%
115	8.090	8.072	8.100	VV	553	6456	0.09%	0.004%
116	8.111	8.100	8.120	VV	560	5383	0.08%	0.004%
117	8.127	8.120	8.160	VV	679	6990	0.10%	0.005%
118	8.209	8.160	8.218	VV	825	12473	0.18%	0.009%
119	8.233	8.218	8.246	VV	1728	18300	0.26%	0.013%
120	8.260	8.246	8.276	VV	1301	15762	0.23%	0.011%
121	8.301	8.276	8.328	VV	46557	480432	6.88%	0.331%
122	8.333	8.328	8.348	VV	567	4502	0.06%	0.003%
123	8.365	8.348	8.380	VV	1542	17224	0.25%	0.012%
124	8.419	8.380	8.479	VV	526435	5117568	73.32%	3.522%
125	8.493	8.479	8.498	VV	799	6861	0.10%	0.005%
126	8.506	8.498	8.522	VV	887	8811	0.13%	0.006%
127	8.534	8.522	8.551	VV	764	9141	0.13%	0.006%
128	8.557	8.551	8.573	VV	279	2537	0.04%	0.002%
129	8.615	8.573	8.642	VV	326991	3198495	45.82%	2.201%
130	8.668	8.642	8.684	VV	1332	22695	0.33%	0.016%
131	8.715	8.684	8.747	VV	514972	5110864	73.22%	3.517%
132	8.758	8.747	8.775	VV	1379	19606	0.28%	0.013%
133	8.789	8.775	8.803	VV	1424	18980	0.27%	0.013%
134	8.809	8.803	8.823	VV	1161	11265	0.16%	0.008%
135	8.838	8.823	8.847	VV	1373	15610	0.22%	0.011%
136	8.860	8.847	8.880	VV	1523	18625	0.27%	0.013%
137	8.903	8.880	8.918	VV	778	9934	0.14%	0.007%
138	8.926	8.918	8.938	VV	590	5187	0.07%	0.004%
139	8.952	8.938	8.968	VV	989	11132	0.16%	0.008%
140	8.981	8.968	8.997	VV	2099	22028	0.32%	0.015%
141	9.021	8.997	9.046	VV	54824	549418	7.87%	0.378%

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142	9.054	9.046	9.089	VV	1434	24974	0.36%	0.017%
143	9.107	9.089	9.112	VV	2047	18983	0.27%	0.013%
144	9.115	9.112	9.127	VV	2051	15761	0.23%	0.011%
145	9.138	9.127	9.167	VV	2429	39988	0.57%	0.028%
146	9.174	9.167	9.194	VV	1521	15561	0.22%	0.011%
147	9.207	9.194	9.229	VV	707	8848	0.13%	0.006%
148	9.271	9.229	9.289	PV	830	12613	0.18%	0.009%
149	9.305	9.289	9.329	VV	1124	13388	0.19%	0.009%
150	9.343	9.329	9.352	VV	682	7231	0.10%	0.005%
151	9.358	9.352	9.380	VV	676	6713	0.10%	0.005%
152	9.386	9.380	9.390	VV	339	1682	0.02%	0.001%
153	9.407	9.390	9.436	VV	1309	21282	0.30%	0.015%
154	9.452	9.436	9.463	VV	549	6558	0.09%	0.005%
155	9.496	9.463	9.552	VV	591745	5970397	85.54%	4.109%
156	9.573	9.552	9.600	VV	1458	20706	0.30%	0.014%
157	9.625	9.600	9.633	VV	765	11002	0.16%	0.008%
158	9.640	9.633	9.653	VV	734	8296	0.12%	0.006%
159	9.666	9.653	9.685	VV	1413	19367	0.28%	0.013%
160	9.705	9.685	9.725	VV	9010	98873	1.42%	0.068%
161	9.736	9.725	9.745	VV	2074	18691	0.27%	0.013%
162	9.768	9.745	9.797	VV	83088	827439	11.85%	0.569%
163	9.812	9.797	9.850	VV	1459	25902	0.37%	0.018%
164	9.895	9.850	9.926	VV	51203	570081	8.17%	0.392%
165	9.935	9.926	9.954	VV	706	7462	0.11%	0.005%
166	9.974	9.954	9.987	VV	917	12495	0.18%	0.009%
167	10.000	9.987	10.048	VV	740	16000	0.23%	0.011%
168	10.065	10.048	10.070	VV	615	5260	0.08%	0.004%
169	10.092	10.070	10.119	VV	2497	29885	0.43%	0.021%
170	10.129	10.119	10.155	PV	193	2050	0.03%	0.001%
171	10.180	10.155	10.188	PV	450	4291	0.06%	0.003%
172	10.193	10.188	10.200	VV	179	1175	0.02%	0.001%
173	10.206	10.200	10.211	VV	316	1832	0.03%	0.001%
174	10.240	10.211	10.274	VV	4505	57701	0.83%	0.040%
175	10.288	10.274	10.308	VV	887	12318	0.18%	0.008%
176	10.339	10.308	10.359	VV	884	20028	0.29%	0.014%
177	10.369	10.359	10.390	VV	1103	14021	0.20%	0.010%
178	10.416	10.390	10.446	VV	1274	22242	0.32%	0.015%
179	10.451	10.446	10.457	VV	325	2062	0.03%	0.001%
180	10.487	10.457	10.514	VV	1046	23290	0.33%	0.016%
181	10.537	10.514	10.568	VV	2487	39502	0.57%	0.027%
182	10.576	10.568	10.580	VV	770	5090	0.07%	0.004%
183	10.586	10.580	10.603	VV	948	9673	0.14%	0.007%
184	10.628	10.603	10.643	VV	1841	28365	0.41%	0.020%
185	10.654	10.643	10.664	VV	1605	16983	0.24%	0.012%
186	10.683	10.664	10.728	VV	11874	183093	2.62%	0.126%
187	10.764	10.728	10.782	VV	1225	26043	0.37%	0.018%
188	10.789	10.782	10.810	VV	908	10246	0.15%	0.007%
189	10.857	10.810	10.865	VV	3981	53012	0.76%	0.036%
190	10.895	10.865	10.933	VV	606745	6476751	92.79%	4.457%
191	10.970	10.933	11.012	VV	595420	6214362	89.03%	4.277%
192	11.041	11.012	11.079	VV	1362	33222	0.48%	0.023%
193	11.084	11.079	11.116	VV	696	8349	0.12%	0.006%
194	11.135	11.116	11.148	VV	356	4196	0.06%	0.003%

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195	11.171	11.148	11.217	VV	5927	68245	0.98%	0.047%
196	11.224	11.217	11.230	VV	333	1966	0.03%	0.001%
197	11.236	11.230	11.240	VV	397	2199	0.03%	0.002%
198	11.265	11.240	11.282	VV	694	13476	0.19%	0.009%
199	11.291	11.282	11.298	VV	548	4176	0.06%	0.003%
200	11.332	11.298	11.359	VV	53254	589693	8.45%	0.406%
201	11.407	11.359	11.454	VV	1241	40246	0.58%	0.028%
202	11.490	11.463	11.506	VV	1292	17566	0.25%	0.012%
203	11.533	11.506	11.538	VV	720	8453	0.12%	0.006%
204	11.542	11.538	11.563	VV	637	4222	0.06%	0.003%
205	11.576	11.563	11.592	VV	718	6833	0.10%	0.005%
206	11.658	11.592	11.682	PV	512741	5516751	79.04%	3.797%
207	11.689	11.682	11.703	VV	3620	32113	0.46%	0.022%
208	11.719	11.703	11.740	VV	4817	57323	0.82%	0.039%
209	11.757	11.740	11.767	VV	1060	15454	0.22%	0.011%
210	11.784	11.767	11.795	VV	2540	32292	0.46%	0.022%
211	11.805	11.795	11.823	VV	3023	43965	0.63%	0.030%
212	11.836	11.823	11.852	VV	3922	44445	0.64%	0.031%
213	11.867	11.852	11.897	VV	3821	45537	0.65%	0.031%
214	11.906	11.897	11.912	VV	456	2353	0.03%	0.002%
215	11.931	11.912	11.958	VV	1530	22019	0.32%	0.015%
216	11.999	11.958	12.016	VV	1409	30334	0.43%	0.021%
217	12.049	12.016	12.080	VV	9373	147340	2.11%	0.101%
218	12.093	12.080	12.114	VV	1259	15754	0.23%	0.011%
219	12.158	12.114	12.175	PV	2836	41319	0.59%	0.028%
220	12.218	12.175	12.225	VV	1524	34797	0.50%	0.024%
221	12.253	12.225	12.353	VV	156944	2151951	30.83%	1.481%
222	12.357	12.353	12.373	VV	3461	37701	0.54%	0.026%
223	12.383	12.373	12.395	VV	3035	36716	0.53%	0.025%
224	12.404	12.395	12.421	VV	3050	44009	0.63%	0.030%
225	12.426	12.421	12.445	VV	2609	32599	0.47%	0.022%
226	12.478	12.445	12.520	VV	4721	136631	1.96%	0.094%
227	12.533	12.520	12.555	VV	3055	46203	0.66%	0.032%
228	12.584	12.555	12.604	VV	5125	86949	1.25%	0.060%
229	12.636	12.604	12.672	VV	57441	729316	10.45%	0.502%
230	12.709	12.672	12.783	VV	614120	6979819	100.00%	4.803%
231	12.801	12.783	12.813	VV	765	10721	0.15%	0.007%
232	12.839	12.813	12.847	VV	1355	20505	0.29%	0.014%
233	12.859	12.847	12.867	VV	1409	14999	0.21%	0.010%
234	12.888	12.867	12.932	VV	8097	121463	1.74%	0.084%
235	12.936	12.932	12.953	VV	1074	11058	0.16%	0.008%
236	12.957	12.953	12.967	VV	833	5869	0.08%	0.004%
237	13.008	12.967	13.034	VV	580090	6710982	96.15%	4.618%
238	13.080	13.034	13.113	VV	65170	872456	12.50%	0.600%
239	13.134	13.113	13.143	VV	1321	20254	0.29%	0.014%
240	13.148	13.143	13.156	VV	1383	9115	0.13%	0.006%
241	13.170	13.156	13.193	VV	1770	26495	0.38%	0.018%
242	13.200	13.193	13.219	VV	638	7538	0.11%	0.005%
243	13.245	13.219	13.278	VV	49650	620982	8.90%	0.427%
244	13.298	13.278	13.317	VV	5429	70806	1.01%	0.049%
245	13.329	13.317	13.348	VV	1417	18653	0.27%	0.013%
246	13.391	13.348	13.407	VV	2760	62049	0.89%	0.043%

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247	13.419	13.407	13.432	VV	2459	33591	0.48%	0.023%
248	13.477	13.432	13.508	VV	53076	725674	10.40%	0.499%
249	13.527	13.508	13.556	VV	15750	270388	3.87%	0.186%
250	13.581	13.556	13.635	VV	7500	193644	2.77%	0.133%
251	13.650	13.635	13.672	VV	2709	47788	0.68%	0.033%
252	13.694	13.672	13.713	VV	3446	67225	0.96%	0.046%
253	13.729	13.713	13.749	VV	4054	60247	0.86%	0.041%
254	13.781	13.749	13.802	VV	5123	93634	1.34%	0.064%
255	13.830	13.802	13.880	VV	51609	695353	9.96%	0.479%
256	13.900	13.880	13.915	VV	3332	45138	0.65%	0.031%
257	13.939	13.915	13.964	VV	18950	236932	3.39%	0.163%
258	13.971	13.964	13.990	VV	1199	14338	0.21%	0.010%
259	14.006	13.990	14.024	VV	822	12689	0.18%	0.009%
260	14.060	14.024	14.100	VV	1159	32944	0.47%	0.023%
261	14.108	14.100	14.130	VV	731	7638	0.11%	0.005%
262	14.133	14.130	14.150	VV	345	3071	0.04%	0.002%
263	14.164	14.150	14.177	VV	676	8387	0.12%	0.006%
264	14.180	14.177	14.184	VV	499	2202	0.03%	0.002%
265	14.190	14.184	14.208	VV	647	6456	0.09%	0.004%
266	14.221	14.208	14.231	VV	799	8561	0.12%	0.006%
267	14.267	14.231	14.292	VV	2624	56592	0.81%	0.039%
268	14.311	14.292	14.345	VV	4301	65705	0.94%	0.045%
269	14.361	14.345	14.370	VV	767	9590	0.14%	0.007%
270	14.393	14.370	14.405	VV	1176	19733	0.28%	0.014%
271	14.414	14.405	14.446	VV	1368	23609	0.34%	0.016%
272	14.493	14.446	14.516	VV	2813	72750	1.04%	0.050%
273	14.524	14.516	14.535	VV	1181	12668	0.18%	0.009%
274	14.557	14.535	14.577	VV	5562	68945	0.99%	0.047%
275	14.613	14.577	14.649	VV	3464	63450	0.91%	0.044%
276	14.679	14.649	14.703	VV	1036	23165	0.33%	0.016%
277	14.721	14.703	14.727	VV	1164	14406	0.21%	0.010%
278	14.766	14.727	14.807	VV	14875	202704	2.90%	0.139%
279	14.812	14.807	14.833	VV	699	7420	0.11%	0.005%
280	14.877	14.833	14.896	VV	495854	6268513	89.81%	4.314%
281	14.922	14.896	14.989	VV	579672	6812334	97.60%	4.688%
282	15.027	14.989	15.080	VV	3074	68945	0.99%	0.047%
283	15.104	15.080	15.141	VV	1361	28551	0.41%	0.020%
284	15.168	15.141	15.176	PV	1568	17984	0.26%	0.012%
285	15.181	15.176	15.197	VV	1208	13444	0.19%	0.009%
286	15.203	15.197	15.258	VV	1186	26940	0.39%	0.019%
287	15.308	15.258	15.412	VV	14201	372275	5.33%	0.256%
288	15.415	15.412	15.427	VV	679	5610	0.08%	0.004%
289	15.467	15.427	15.488	VV	7891	119742	1.72%	0.082%
290	15.494	15.488	15.500	VV	1573	10040	0.14%	0.007%
291	15.502	15.500	15.516	VV	1500	12647	0.18%	0.009%
292	15.536	15.516	15.558	VV	4417	59358	0.85%	0.041%
293	15.574	15.558	15.601	VV	2313	31799	0.46%	0.022%
294	15.618	15.601	15.625	VV	948	10745	0.15%	0.007%
295	15.674	15.625	15.690	VV	2337	55494	0.80%	0.038%
296	15.698	15.690	15.731	VV	2161	33206	0.48%	0.023%
297	15.736	15.731	15.741	VV	521	2343	0.03%	0.002%
298	15.745	15.741	15.754	VV	444	3554	0.05%	0.002%
299	15.778	15.754	15.806	VV	2652	40381	0.58%	0.028%

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300	15.816	15.806	15.832	VV	722	8213	0.12%	0.006%
301	15.857	15.832	15.871	VV	1314	19386	0.28%	0.013%
302	15.887	15.871	15.914	VV	1093	21895	0.31%	0.015%
303	15.947	15.914	15.990	VV	44795	579960	8.31%	0.399%
304	16.006	15.990	16.024	VV	723	9104	0.13%	0.006%
305	16.038	16.024	16.058	VV	310	2813	0.04%	0.002%
306	16.064	16.058	16.095	VV	270	3242	0.05%	0.002%
307	16.145	16.095	16.189	VV	1614	36428	0.52%	0.025%
308	16.201	16.189	16.219	PV	591	7027	0.10%	0.005%
309	16.250	16.219	16.269	VV	881	16857	0.24%	0.012%
310	16.285	16.269	16.300	VV	631	8257	0.12%	0.006%
311	16.345	16.300	16.378	VV	3025	74811	1.07%	0.051%
312	16.428	16.378	16.443	VV	429509	6023826	86.30%	4.146%
313	16.463	16.443	16.487	VV	501851	5860145	83.96%	4.033%
314	16.509	16.487	16.532	VV	8692	116510	1.67%	0.080%
315	16.553	16.532	16.579	VV	4228	67603	0.97%	0.047%
316	16.583	16.579	16.638	VV	1317	24117	0.35%	0.017%
317	16.669	16.638	16.689	VV	3267	43911	0.63%	0.030%
318	16.738	16.689	16.767	VV	11355	186960	2.68%	0.129%
319	16.809	16.767	16.839	VV	431780	5617329	80.48%	3.866%
320	16.892	16.839	16.927	VV	48913	688322	9.86%	0.474%
321	16.944	16.927	16.957	VV	1862	27473	0.39%	0.019%
322	16.965	16.957	16.988	VV	1462	19986	0.29%	0.014%
323	17.007	16.988	17.015	VV	779	11074	0.16%	0.008%
324	17.036	17.015	17.087	VV	1197	33509	0.48%	0.023%
325	17.097	17.087	17.122	VV	663	8725	0.12%	0.006%
326	17.161	17.122	17.197	VV	1559	43298	0.62%	0.030%
327	17.200	17.197	17.229	VV	749	7015	0.10%	0.005%
328	17.292	17.229	17.307	PV	2411	58368	0.84%	0.040%
329	17.317	17.307	17.324	VV	1898	17991	0.26%	0.012%
330	17.335	17.324	17.357	VV	1968	30834	0.44%	0.021%
331	17.374	17.357	17.399	VV	1445	22983	0.33%	0.016%
332	17.408	17.399	17.421	VV	644	8419	0.12%	0.006%
333	17.449	17.421	17.475	VV	1554	33214	0.48%	0.023%
334	17.493	17.475	17.509	VV	838	12785	0.18%	0.009%
335	17.514	17.509	17.524	VV	520	4375	0.06%	0.003%
336	17.537	17.524	17.549	VV	585	7156	0.10%	0.005%
337	17.567	17.549	17.595	VV	617	10904	0.16%	0.008%
338	17.599	17.595	17.602	VV	383	1217	0.02%	0.001%
339	17.605	17.602	17.611	VV	305	1174	0.02%	0.001%
340	17.638	17.611	17.652	VV	690	11128	0.16%	0.008%
341	17.672	17.652	17.685	VV	649	9065	0.13%	0.006%
342	17.738	17.685	17.744	VV	1686	30620	0.44%	0.021%
343	17.776	17.744	17.808	VV	40024	545370	7.81%	0.375%
344	17.839	17.808	17.845	VV	940	14991	0.21%	0.010%
345	17.864	17.845	17.878	VV	1895	28598	0.41%	0.020%
346	17.887	17.878	17.906	VV	1481	17940	0.26%	0.012%
347	17.926	17.906	17.935	VV	1366	17984	0.26%	0.012%
348	17.940	17.935	17.978	VV	1313	22523	0.32%	0.016%
349	18.012	17.978	18.037	VV	1214	25035	0.36%	0.017%
350	18.069	18.037	18.103	VV	2975	58145	0.83%	0.040%
351	18.174	18.103	18.189	VV	410783	6013271	86.15%	4.138%

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352	18.213	18.189	18.273	VV	424330	5511679	78.97%	3.793%
353	18.295	18.273	18.310	VV	3260	46873	0.67%	0.032%
354	18.327	18.310	18.354	VV	3043	52259	0.75%	0.036%
355	18.356	18.354	18.362	VV	1099	5141	0.07%	0.004%
356	18.373	18.362	18.378	VV	995	8935	0.13%	0.006%
357	18.432	18.378	18.479	VV	385009	5598326	80.21%	3.853%
358	18.496	18.479	18.518	VV	1363	25474	0.36%	0.018%
359	18.542	18.518	18.563	VV	2838	45538	0.65%	0.031%
360	18.604	18.563	18.639	VV	37076	545799	7.82%	0.376%
361	18.643	18.639	18.667	VV	1310	16323	0.23%	0.011%
362	18.702	18.667	18.737	VV	2432	69697	1.00%	0.048%
363	18.754	18.737	18.794	VV	1604	50663	0.73%	0.035%
364	18.803	18.794	18.815	VV	1571	18147	0.26%	0.012%
365	18.840	18.815	18.857	VV	1895	38314	0.55%	0.026%
366	18.881	18.857	18.899	VV	1795	39864	0.57%	0.027%
367	18.924	18.899	18.930	VV	1878	30614	0.44%	0.021%
368	18.934	18.930	18.938	VV	1909	8619	0.12%	0.006%
369	18.970	18.938	19.070	VV	7890	343041	4.91%	0.236%
370	19.087	19.070	19.093	VV	2746	35101	0.50%	0.024%
371	19.098	19.093	19.121	VV	2902	41589	0.60%	0.029%
372	19.130	19.121	19.142	VV	2210	26998	0.39%	0.019%
373	19.147	19.142	19.156	VV	2052	17245	0.25%	0.012%
374	19.198	19.156	19.220	VV	2824	86032	1.23%	0.059%
375	19.260	19.220	19.281	VV	2492	82790	1.19%	0.057%
376	19.289	19.281	19.310	VV	2376	39914	0.57%	0.027%
377	19.330	19.310	19.336	VV	2341	34718	0.50%	0.024%
378	19.383	19.336	19.416	VV	39314	657215	9.42%	0.452%
379	19.424	19.416	19.435	VV	2843	30872	0.44%	0.021%
380	19.449	19.435	19.461	VV	2939	43875	0.63%	0.030%
381	19.490	19.461	19.520	VV	4331	115745	1.66%	0.080%
382	19.559	19.520	19.584	VV	7029	173241	2.48%	0.119%
383	19.623	19.584	19.654	VV	6158	195317	2.80%	0.134%
384	19.680	19.654	19.698	VV	4800	116985	1.68%	0.081%
385	19.753	19.698	19.785	VV	5978	251047	3.60%	0.173%
386	19.800	19.785	19.820	VV	4376	89225	1.28%	0.061%
387	19.839	19.820	19.870	VV	4744	129615	1.86%	0.089%
388	19.875	19.870	19.880	VV	4104	23125	0.33%	0.016%
389	19.933	19.880	19.965	VV	8353	308300	4.42%	0.212%
390	20.026	19.965	20.051	VV	7957	326261	4.67%	0.225%
391	20.077	20.051	20.089	VV	6500	138994	1.99%	0.096%
392	20.120	20.089	20.154	VV	37054	667500	9.56%	0.459%
393	20.199	20.154	20.203	VV	6423	186063	2.67%	0.128%
394	20.207	20.203	20.216	VV	6447	46314	0.66%	0.032%
395	20.262	20.216	20.276	VV	10255	290167	4.16%	0.200%
396	20.286	20.276	20.325	VV	9536	228905	3.28%	0.158%
397	20.367	20.325	20.381	VV	7193	235140	3.37%	0.162%
398	20.409	20.381	20.420	VV	7438	168212	2.41%	0.116%
399	20.469	20.420	20.495	VV	8106	349318	5.00%	0.240%
400	20.533	20.495	20.555	VV	7746	274009	3.93%	0.189%
401	20.564	20.555	20.595	VV	7788	182780	2.62%	0.126%
402	20.598	20.595	20.608	VV	7574	59180	0.85%	0.041%
403	20.620	20.608	20.632	VV	7499	103670	1.49%	0.071%
404	20.651	20.632	20.660	VV	7491	125544	1.80%	0.086%

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405	20.664	20.660	20.700	VV	7516	169791	2.43%	0.117%
406	20.704	20.700	20.709	VV	6927	33945	0.49%	0.023%
407	20.714	20.709	20.727	VV	6951	76022	1.09%	0.052%
408	20.736	20.727	20.745	VV	6973	71833	1.03%	0.049%
409	20.752	20.745	20.764	VV	6857	78901	1.13%	0.054%
410	20.770	20.764	20.780	VV	6859	63035	0.90%	0.043%
411	20.788	20.780	20.808	VV	6634	108454	1.55%	0.075%
412	20.857	20.808	20.899	VV	31796	771335	11.05%	0.531%
413	20.904	20.899	20.907	VV	5840	28151	0.40%	0.019%
414	20.915	20.907	20.927	VV	6076	72804	1.04%	0.050%
415	20.930	20.927	20.950	VV	6279	86031	1.23%	0.059%
416	20.962	20.950	21.021	VV	6374	241350	3.46%	0.166%
417	21.035	21.021	21.067	VV	5333	141234	2.02%	0.097%
418	21.112	21.067	21.133	VV	5110	193575	2.77%	0.133%
419	21.150	21.133	21.161	VV	5139	81185	1.16%	0.056%
420	21.165	21.161	21.190	VV	4946	83746	1.20%	0.058%
421	21.195	21.190	21.212	VV	4600	57281	0.82%	0.039%
422	21.215	21.212	21.250	VV	4578	100337	1.44%	0.069%
423	21.276	21.250	21.281	VV	5062	88500	1.27%	0.061%
424	21.303	21.281	21.344	VV	5284	178447	2.56%	0.123%
425	21.350	21.344	21.399	VV	4318	131229	1.88%	0.090%
426	21.405	21.399	21.423	VV	3665	50540	0.72%	0.035%
427	21.428	21.423	21.443	VV	3537	40846	0.59%	0.028%
428	21.465	21.443	21.474	VV	3650	65844	0.94%	0.045%
429	21.478	21.474	21.502	VV	3613	54710	0.78%	0.038%
430	21.521	21.502	21.558	VV	3557	108150	1.55%	0.074%
431	21.565	21.558	21.571	VV	2887	23335	0.33%	0.016%
432	21.606	21.571	21.658	VV	3614	152702	2.19%	0.105%
433	21.686	21.658	21.724	VV	3486	107607	1.54%	0.074%
434	21.778	21.724	21.850	VV	20718	580008	8.31%	0.399%
435	21.853	21.850	21.858	VV	1855	8650	0.12%	0.006%
436	21.865	21.858	21.872	VV	1696	13325	0.19%	0.009%
437	21.878	21.872	21.895	VV	1813	22839	0.33%	0.016%
438	21.916	21.895	21.932	VV	1719	35508	0.51%	0.024%
439	21.969	21.932	21.977	VV	1824	44343	0.64%	0.031%
440	21.990	21.977	22.018	VV	1874	38952	0.56%	0.027%
441	22.026	22.018	22.034	VV	1224	10928	0.16%	0.008%
442	22.046	22.034	22.074	VV	1375	26905	0.39%	0.019%
443	22.082	22.074	22.108	VV	954	17007	0.24%	0.012%
444	22.112	22.108	22.146	VV	678	10389	0.15%	0.007%
445	22.171	22.146	22.177	VV	499	6349	0.09%	0.004%
446	22.182	22.177	22.195	VV	441	3094	0.04%	0.002%

Sum of corrected areas: 145307937

Aromatic EPH 040725.M Fri Apr 11 01:42:09 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049277.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:45
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 01:05:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.749	5402290	36.469 ug/ml
Spiked Amount	50.000		Recovery =	72.94%
6) S	2-Flurobiphenyl (SURR)	8.615	3125160	30.638 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	61.28%
11) S	ortho-Terphenyl (SURR)	11.657	5397335	30.635 ug/ml
Spiked Amount	50.000		Recovery =	61.27%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.541	2191469	14.624 ug/ml
2) T	Naphthalene (C11.7)	6.085	3107334	18.978 ug/ml
3) T	2-Methylnaphthalene (...	7.139	3471583	21.463 ug/ml
5) T	Acenaphthylene (C15.06)	8.419	4992986	28.267 ug/ml
7) T	Acenaphthene (C15.5)	8.715	4962706	28.805 ug/ml
8) T	Flouorene (C16.55)	9.496	5818239	33.365 ug/ml
9) T	Phenanthrene (C19.36)	10.894	6340780	36.948 ug/ml
10) T	Anthracene (C19.43)	10.970	6087215	38.748 ug/ml
12) T	Fluoranthene (C21.85)	12.709	6875608	40.677 ug/ml
13) T	Pyrene (C20.8)	13.008	6637585	39.576 ug/ml
14) T	Benzo[a]anthracene (C...	14.878	6247616	43.463 ug/ml
15) T	Chrysene (C27.41)	14.923	6757556	46.832 ug/ml
16) T	benzo[b]fluoranthene ...	16.428	5992863	43.076 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.464	5821762	42.567 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.808	5577777	42.894 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.174	5942171	48.202 ug/ml
20) T	Dibenz[a,h]anthracene...	18.212	5441286	43.032 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.432	5514184	42.238 ug/ml

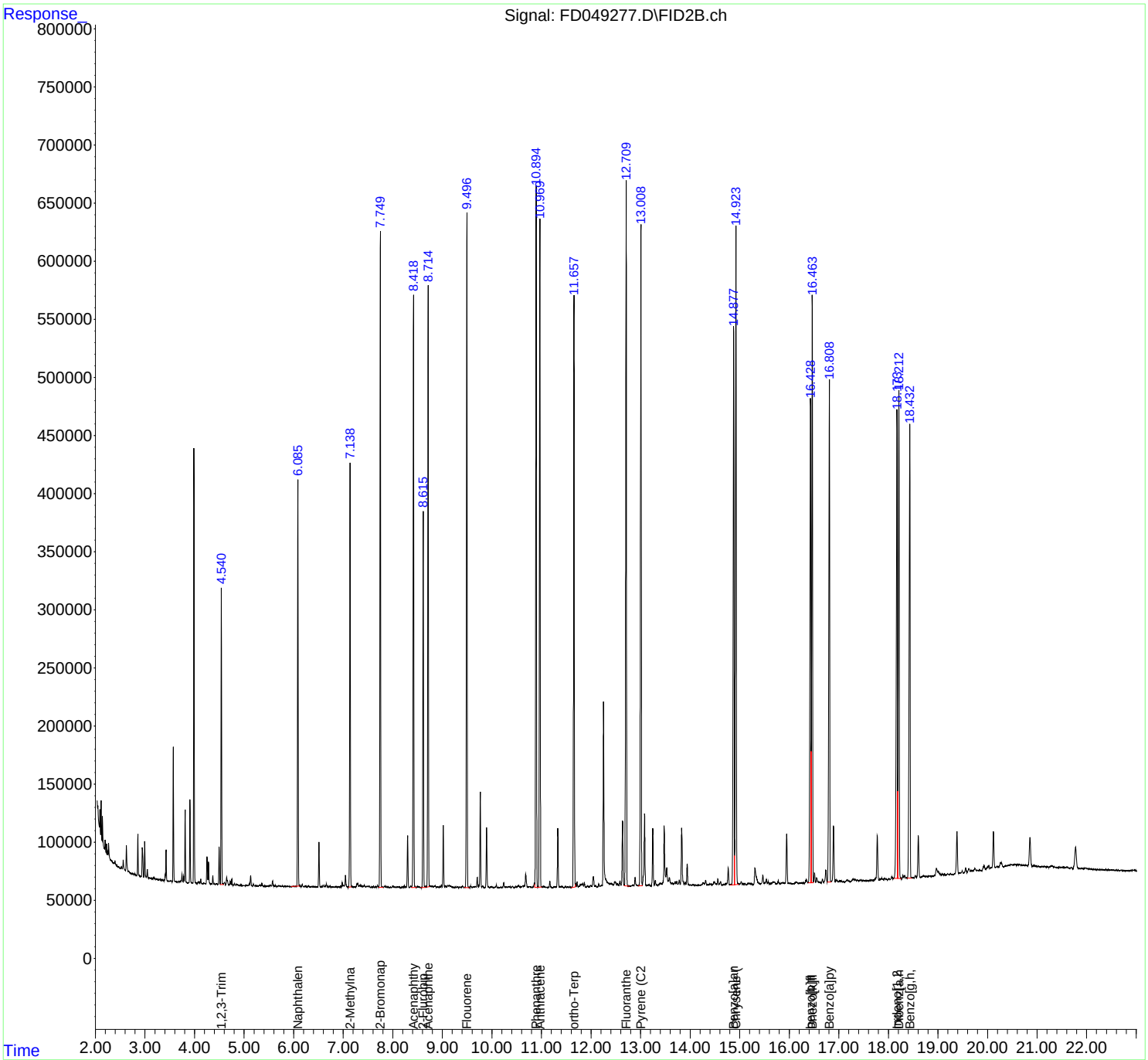
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049277.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:45
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 01:05:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 05:25:12 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD041025AR\
Data File : FD049277.D
Signal(s) : FID2B.ch
Acq On : 10 Apr 2025 19:45
Sample : Q1746-01MSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 040725.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	4.072	4.042	4.085	BV	1489	11893	0.17%	0.008%
2	4.098	4.085	4.112	VV	1422	13595	0.20%	0.009%
3	4.125	4.112	4.157	VV	3910	35286	0.51%	0.025%
4	4.164	4.157	4.179	PV	290	1438	0.02%	0.001%
5	4.193	4.179	4.217	VV	472	5959	0.09%	0.004%
6	4.252	4.217	4.269	VV	23490	255301	3.69%	0.178%
7	4.283	4.269	4.333	VV	19067	178257	2.58%	0.124%
8	4.342	4.333	4.352	PV	339	2177	0.03%	0.002%
9	4.369	4.352	4.387	VV	7738	63527	0.92%	0.044%
10	4.392	4.387	4.437	VV	601	9748	0.14%	0.007%
11	4.455	4.437	4.474	VV	571	8244	0.12%	0.006%
12	4.497	4.474	4.518	VV	32630	292312	4.23%	0.203%
13	4.541	4.518	4.578	VV	255261	2201519	31.86%	1.532%
14	4.604	4.578	4.626	VV	2222	35587	0.52%	0.025%
15	4.648	4.626	4.660	VV	6859	71628	1.04%	0.050%
16	4.665	4.660	4.692	VV	3940	34036	0.49%	0.024%
17	4.699	4.692	4.705	VV	431	2415	0.03%	0.002%
18	4.721	4.705	4.737	VV	3443	34479	0.50%	0.024%
19	4.751	4.737	4.774	VV	5444	52255	0.76%	0.036%
20	4.804	4.774	4.823	VV	1517	18037	0.26%	0.013%
21	4.839	4.823	4.861	PV	1508	18323	0.27%	0.013%
22	4.867	4.861	4.904	VV	782	11210	0.16%	0.008%
23	4.908	4.904	4.912	VV	321	1224	0.02%	0.001%
24	4.916	4.912	4.925	VV	383	2305	0.03%	0.002%
25	4.940	4.925	4.960	VV	748	8321	0.12%	0.006%
26	4.969	4.960	4.987	VV	313	2035	0.03%	0.001%
27	5.003	4.996	5.014	VV	269	1923	0.03%	0.001%
28	5.022	5.014	5.029	VV	213	1470	0.02%	0.001%
29	5.033	5.029	5.041	VV	291	1762	0.03%	0.001%
30	5.059	5.041	5.081	VV	654	11127	0.16%	0.008%
31	5.106	5.081	5.117	VV	2579	27799	0.40%	0.019%
32	5.133	5.117	5.167	VV	9196	102408	1.48%	0.071%
33	5.189	5.167	5.216	VV	2021	26206	0.38%	0.018%
34	5.220	5.216	5.232	VV	643	4080	0.06%	0.003%
35	5.247	5.232	5.270	VV	633	9200	0.13%	0.006%
36	5.286	5.270	5.290	VV	441	3699	0.05%	0.003%

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37	5.324	5.290	5.339	VV	1215	25143	0.36%	0.017%
38	5.359	5.339	5.387	VV	3054	38770	0.56%	0.027%
39	5.425	5.387	5.446	PV	716	17451	0.25%	0.012%
40	5.456	5.446	5.473	VV	623	8313	0.12%	0.006%
41	5.478	5.473	5.490	VV	581	5419	0.08%	0.004%
42	5.500	5.490	5.517	VV	956	12101	0.18%	0.008%
43	5.533	5.517	5.551	VV	1650	21131	0.31%	0.015%
44	5.575	5.551	5.606	VV	5144	67821	0.98%	0.047%
45	5.629	5.606	5.674	VV	1437	28609	0.41%	0.020%
46	5.695	5.674	5.751	VV	940	28625	0.41%	0.020%
47	5.775	5.751	5.810	VV	963	17027	0.25%	0.012%
48	5.830	5.810	5.844	VV	680	9820	0.14%	0.007%
49	5.874	5.844	5.906	VV	638	16846	0.24%	0.012%
50	5.913	5.906	5.949	VV	451	8691	0.13%	0.006%
51	5.977	5.949	5.992	VV	612	10469	0.15%	0.007%
52	5.994	5.992	6.009	VV	550	4359	0.06%	0.003%
53	6.019	6.009	6.027	VV	526	3971	0.06%	0.003%
54	6.035	6.027	6.045	VV	608	4617	0.07%	0.003%
55	6.085	6.045	6.120	VV	349656	3144806	45.51%	2.188%
56	6.130	6.120	6.153	VV	1401	17574	0.25%	0.012%
57	6.173	6.153	6.199	VV	2550	30586	0.44%	0.021%
58	6.231	6.199	6.244	VV	794	13961	0.20%	0.010%
59	6.248	6.244	6.272	VV	624	4927	0.07%	0.003%
60	6.307	6.272	6.334	VV	915	17790	0.26%	0.012%
61	6.337	6.334	6.346	VV	245	1452	0.02%	0.001%
62	6.364	6.346	6.384	VV	857	10601	0.15%	0.007%
63	6.396	6.384	6.415	VV	467	5103	0.07%	0.004%
64	6.430	6.415	6.462	VV	354	5267	0.08%	0.004%
65	6.471	6.462	6.484	PV	126	1482	0.02%	0.001%
66	6.511	6.484	6.543	VV	38962	377705	5.47%	0.263%
67	6.555	6.543	6.569	VV	460	4878	0.07%	0.003%
68	6.595	6.569	6.618	VV	1808	25029	0.36%	0.017%
69	6.630	6.618	6.644	VV	1114	11818	0.17%	0.008%
70	6.661	6.644	6.684	VV	2831	32098	0.46%	0.022%
71	6.694	6.684	6.713	VV	1002	10860	0.16%	0.008%
72	6.733	6.713	6.758	VV	1442	16565	0.24%	0.012%
73	6.771	6.758	6.795	VV	248	4251	0.06%	0.003%
74	6.803	6.795	6.819	VV	279	2251	0.03%	0.002%
75	6.827	6.819	6.835	VV	372	2026	0.03%	0.001%
76	6.838	6.835	6.851	VV	305	1942	0.03%	0.001%
77	6.871	6.851	6.880	VV	361	3423	0.05%	0.002%
78	6.887	6.880	6.900	VV	526	3327	0.05%	0.002%
79	6.907	6.900	6.931	VV	398	4709	0.07%	0.003%
80	6.953	6.931	6.965	VV	1360	14418	0.21%	0.010%
81	6.980	6.965	6.995	VV	4346	40008	0.58%	0.028%
82	7.006	6.995	7.023	VV	1922	23875	0.35%	0.017%
83	7.046	7.023	7.102	VV	10463	127751	1.85%	0.089%
84	7.139	7.102	7.177	VV	365155	3488574	50.49%	2.427%
85	7.184	7.177	7.205	VV	844	10173	0.15%	0.007%
86	7.215	7.205	7.229	VV	514	6092	0.09%	0.004%
87	7.241	7.229	7.254	VV	548	5713	0.08%	0.004%
88	7.276	7.254	7.282	VV	3093	28473	0.41%	0.020%
89	7.294	7.282	7.312	VV	3694	44996	0.65%	0.031%

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90	7.330	7.312	7.342	VV	2080	26349	0.38%	0.018%
91	7.354	7.342	7.388	VV	1920	30480	0.44%	0.021%
92	7.402	7.388	7.414	VV	1552	16980	0.25%	0.012%
93	7.430	7.414	7.454	VV	2006	26630	0.39%	0.019%
94	7.472	7.454	7.482	VV	889	11914	0.17%	0.008%
95	7.498	7.482	7.510	VV	1101	15060	0.22%	0.010%
96	7.524	7.510	7.566	VV	1656	22312	0.32%	0.016%
97	7.580	7.566	7.597	VV	506	6134	0.09%	0.004%
98	7.613	7.597	7.625	VV	765	7971	0.12%	0.006%
99	7.630	7.625	7.634	VV	459	1980	0.03%	0.001%
100	7.660	7.634	7.678	VV	728	14495	0.21%	0.010%
101	7.694	7.678	7.712	VV	1888	21774	0.32%	0.015%
102	7.749	7.712	7.800	VV	565900	5412187	78.33%	3.766%
103	7.804	7.800	7.812	VV	434	2308	0.03%	0.002%
104	7.833	7.812	7.849	VV	1187	16820	0.24%	0.012%
105	7.859	7.849	7.876	VV	1248	12278	0.18%	0.009%
106	7.883	7.876	7.902	VV	534	5702	0.08%	0.004%
107	7.917	7.902	7.935	VV	498	4992	0.07%	0.003%
108	7.958	7.935	7.974	VV	442	6288	0.09%	0.004%
109	7.997	7.974	8.040	VV	1537	27007	0.39%	0.019%
110	8.055	8.040	8.072	VV	610	7646	0.11%	0.005%
111	8.085	8.072	8.100	VV	611	7792	0.11%	0.005%
112	8.114	8.100	8.121	VV	739	7805	0.11%	0.005%
113	8.126	8.121	8.169	VV	720	9520	0.14%	0.007%
114	8.200	8.169	8.217	PV	684	12303	0.18%	0.009%
115	8.232	8.217	8.245	VV	1765	19094	0.28%	0.013%
116	8.258	8.245	8.274	VV	1221	14101	0.20%	0.010%
117	8.300	8.274	8.327	VV	44869	471776	6.83%	0.328%
118	8.334	8.327	8.343	VV	427	3216	0.05%	0.002%
119	8.364	8.343	8.379	VV	1632	18217	0.26%	0.013%
120	8.419	8.379	8.475	VV	510073	5002227	72.39%	3.481%
121	8.499	8.475	8.522	VV	1025	17395	0.25%	0.012%
122	8.536	8.522	8.557	VV	829	11103	0.16%	0.008%
123	8.562	8.557	8.577	VV	266	2184	0.03%	0.002%
124	8.615	8.577	8.655	VV	323963	3138040	45.41%	2.183%
125	8.666	8.655	8.681	VV	1332	14467	0.21%	0.010%
126	8.715	8.681	8.744	VV	519156	4988204	72.19%	3.471%
127	8.760	8.744	8.775	VV	1568	22807	0.33%	0.016%
128	8.788	8.775	8.804	VV	1385	19299	0.28%	0.013%
129	8.810	8.804	8.817	VV	1131	8134	0.12%	0.006%
130	8.819	8.817	8.822	VV	1037	3005	0.04%	0.002%
131	8.838	8.822	8.843	VV	1348	14958	0.22%	0.010%
132	8.858	8.843	8.880	VV	1583	22309	0.32%	0.016%
133	8.904	8.880	8.918	VV	783	12181	0.18%	0.008%
134	8.925	8.918	8.937	VV	616	5197	0.08%	0.004%
135	8.951	8.937	8.964	VV	860	10832	0.16%	0.008%
136	8.981	8.964	8.997	VV	2390	25810	0.37%	0.018%
137	9.020	8.997	9.043	VV	53729	541239	7.83%	0.377%
138	9.055	9.043	9.068	VV	1723	20906	0.30%	0.015%
139	9.073	9.068	9.088	VV	1224	11179	0.16%	0.008%
140	9.108	9.088	9.127	VV	1993	35279	0.51%	0.025%
141	9.142	9.127	9.164	VV	2227	37377	0.54%	0.026%

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142	9.173	9.164	9.191	VV	1485	16576	0.24%	0.012%
143	9.208	9.191	9.229	VV	706	8546	0.12%	0.006%
144	9.270	9.229	9.287	VV	769	13133	0.19%	0.009%
145	9.306	9.287	9.329	VV	1057	12557	0.18%	0.009%
146	9.344	9.329	9.349	PV	651	4432	0.06%	0.003%
147	9.353	9.349	9.379	VV	646	7617	0.11%	0.005%
148	9.408	9.379	9.437	VV	1356	26429	0.38%	0.018%
149	9.456	9.437	9.462	VV	619	6829	0.10%	0.005%
150	9.496	9.462	9.545	VV	576835	5829034	84.36%	4.056%
151	9.571	9.545	9.603	VV	1376	24989	0.36%	0.017%
152	9.624	9.603	9.633	VV	770	10867	0.16%	0.008%
153	9.664	9.633	9.670	VV	1267	19456	0.28%	0.014%
154	9.671	9.670	9.685	VV	1182	8337	0.12%	0.006%
155	9.705	9.685	9.727	VV	8937	98548	1.43%	0.069%
156	9.738	9.727	9.745	VV	1856	16564	0.24%	0.012%
157	9.767	9.745	9.795	VV	82658	810423	11.73%	0.564%
158	9.814	9.795	9.844	VV	1472	25083	0.36%	0.017%
159	9.849	9.844	9.856	VV	320	1789	0.03%	0.001%
160	9.895	9.856	9.926	VV	51929	559642	8.10%	0.389%
161	9.936	9.926	9.955	VV	713	7793	0.11%	0.005%
162	9.975	9.955	9.990	VV	920	11874	0.17%	0.008%
163	9.999	9.990	10.033	VV	639	10470	0.15%	0.007%
164	10.051	10.033	10.057	VV	299	2968	0.04%	0.002%
165	10.071	10.057	10.077	VV	638	6393	0.09%	0.004%
166	10.092	10.077	10.125	VV	2404	27360	0.40%	0.019%
167	10.128	10.125	10.139	VV	158	1030	0.01%	0.001%
168	10.175	10.155	10.192	PV	531	6213	0.09%	0.004%
169	10.197	10.192	10.207	VV	371	2701	0.04%	0.002%
170	10.240	10.207	10.272	VV	4465	60205	0.87%	0.042%
171	10.293	10.272	10.306	VV	981	12764	0.18%	0.009%
172	10.336	10.306	10.347	VV	989	17235	0.25%	0.012%
173	10.365	10.347	10.393	VV	1059	19758	0.29%	0.014%
174	10.417	10.393	10.438	VV	1372	21140	0.31%	0.015%
175	10.445	10.438	10.459	VV	396	3690	0.05%	0.003%
176	10.486	10.459	10.492	VV	1051	12951	0.19%	0.009%
177	10.496	10.492	10.507	VV	917	6967	0.10%	0.005%
178	10.538	10.507	10.574	VV	2360	47625	0.69%	0.033%
179	10.584	10.574	10.597	VV	937	11030	0.16%	0.008%
180	10.628	10.597	10.642	VV	1901	33084	0.48%	0.023%
181	10.655	10.642	10.662	VV	1760	17150	0.25%	0.012%
182	10.682	10.662	10.736	VV	11889	184945	2.68%	0.129%
183	10.765	10.736	10.783	VV	1115	21043	0.30%	0.015%
184	10.791	10.783	10.809	VV	806	7258	0.11%	0.005%
185	10.835	10.809	10.840	VV	1138	12868	0.19%	0.009%
186	10.857	10.840	10.864	VV	4008	39448	0.57%	0.027%
187	10.894	10.864	10.933	VV	604718	6355277	91.97%	4.422%
188	10.970	10.933	11.010	VV	575600	6108822	88.41%	4.251%
189	11.015	11.010	11.027	VV	749	6340	0.09%	0.004%
190	11.042	11.027	11.070	VV	1305	21998	0.32%	0.015%
191	11.074	11.070	11.101	VV	637	8105	0.12%	0.006%
192	11.133	11.101	11.139	VV	374	5983	0.09%	0.004%
193	11.142	11.139	11.150	VV	352	1794	0.03%	0.001%
194	11.170	11.150	11.214	VV	5791	64279	0.93%	0.045%

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195	11.256	11.223	11.270	PV	827	13472	0.19%	0.009%
196	11.273	11.270	11.292	VV	757	7697	0.11%	0.005%
197	11.296	11.292	11.300	VV	598	2695	0.04%	0.002%
198	11.332	11.300	11.362	VV	51254	583941	8.45%	0.406%
199	11.377	11.362	11.382	VV	777	6899	0.10%	0.005%
200	11.405	11.382	11.453	VV	1173	29832	0.43%	0.021%
201	11.489	11.453	11.506	PV	1239	17791	0.26%	0.012%
202	11.532	11.506	11.555	VV	760	13139	0.19%	0.009%
203	11.577	11.555	11.596	VV	693	8101	0.12%	0.006%
204	11.657	11.596	11.682	PV	510328	5407899	78.26%	3.763%
205	11.687	11.682	11.702	VV	3541	31679	0.46%	0.022%
206	11.719	11.702	11.745	VV	4951	61271	0.89%	0.043%
207	11.751	11.745	11.755	VV	991	5791	0.08%	0.004%
208	11.783	11.755	11.793	VV	2477	35008	0.51%	0.024%
209	11.805	11.793	11.821	VV	2827	42002	0.61%	0.029%
210	11.836	11.821	11.850	VV	3727	45341	0.66%	0.032%
211	11.867	11.850	11.891	VV	3853	46530	0.67%	0.032%
212	11.903	11.891	11.910	VV	361	3206	0.05%	0.002%
213	11.931	11.910	11.965	VV	1627	26289	0.38%	0.018%
214	11.999	11.965	12.015	VV	1541	30356	0.44%	0.021%
215	12.048	12.015	12.075	VV	9248	144859	2.10%	0.101%
216	12.091	12.075	12.119	VV	1304	18996	0.27%	0.013%
217	12.156	12.119	12.180	VV	2728	39539	0.57%	0.028%
218	12.220	12.180	12.229	VV	1557	34222	0.50%	0.024%
219	12.254	12.229	12.392	VV	159490	2202689	31.88%	1.533%
220	12.405	12.392	12.421	VV	3027	46668	0.68%	0.032%
221	12.426	12.421	12.449	VV	2457	36563	0.53%	0.025%
222	12.478	12.449	12.517	VV	4680	125377	1.81%	0.087%
223	12.534	12.517	12.558	VV	2893	49218	0.71%	0.034%
224	12.585	12.558	12.607	VV	4803	83751	1.21%	0.058%
225	12.636	12.607	12.669	VV	56823	708003	10.25%	0.493%
226	12.709	12.669	12.753	VV	608240	6909809	100.00%	4.808%
227	12.758	12.753	12.783	VV	679	10595	0.15%	0.007%
228	12.799	12.783	12.815	VV	687	11247	0.16%	0.008%
229	12.836	12.815	12.848	VV	1384	19413	0.28%	0.014%
230	12.860	12.848	12.868	VV	1377	14125	0.20%	0.010%
231	12.889	12.868	12.930	VV	7984	117114	1.69%	0.081%
232	12.935	12.930	12.953	VV	986	12081	0.17%	0.008%
233	12.958	12.953	12.968	VV	833	6930	0.10%	0.005%
234	13.008	12.968	13.034	VV	570884	6662004	96.41%	4.635%
235	13.080	13.034	13.114	VV	62676	856909	12.40%	0.596%
236	13.135	13.114	13.153	VV	1187	22591	0.33%	0.016%
237	13.168	13.153	13.197	VV	1693	26764	0.39%	0.019%
238	13.201	13.197	13.214	VV	579	4610	0.07%	0.003%
239	13.245	13.214	13.278	VV	49997	610844	8.84%	0.425%
240	13.298	13.278	13.317	VV	5251	66013	0.96%	0.046%
241	13.328	13.317	13.346	VV	1325	16118	0.23%	0.011%
242	13.393	13.346	13.408	VV	2689	62683	0.91%	0.044%
243	13.418	13.408	13.435	VV	2271	31750	0.46%	0.022%
244	13.477	13.435	13.508	VV	52057	714563	10.34%	0.497%
245	13.527	13.508	13.553	VV	15968	257068	3.72%	0.179%
246	13.582	13.553	13.632	VV	7319	193856	2.81%	0.135%

rteres

247	13.649	13.632	13.668	VV	2483	45729	0.66%	0.032%
248	13.692	13.668	13.714	VV	3445	71407	1.03%	0.050%
249	13.729	13.714	13.750	VV	3941	57921	0.84%	0.040%
250	13.782	13.750	13.801	VV	5093	87135	1.26%	0.061%
251	13.830	13.801	13.881	VV	49726	679354	9.83%	0.473%
252	13.899	13.881	13.915	VV	3080	44685	0.65%	0.031%
253	13.940	13.915	13.992	VV	18486	251467	3.64%	0.175%
254	14.009	13.992	14.024	VV	864	12535	0.18%	0.009%
255	14.064	14.024	14.090	VV	1093	25643	0.37%	0.018%
256	14.102	14.090	14.120	VV	708	8993	0.13%	0.006%
257	14.126	14.120	14.147	VV	486	3977	0.06%	0.003%
258	14.173	14.147	14.187	VV	633	9397	0.14%	0.007%
259	14.268	14.187	14.292	VV	2540	70110	1.01%	0.049%
260	14.312	14.292	14.344	VV	4459	67238	0.97%	0.047%
261	14.393	14.344	14.405	VV	1065	26994	0.39%	0.019%
262	14.421	14.405	14.449	VV	1261	22422	0.32%	0.016%
263	14.494	14.449	14.515	VV	2828	71065	1.03%	0.049%
264	14.522	14.515	14.534	VV	1162	11922	0.17%	0.008%
265	14.558	14.534	14.578	VV	5464	70534	1.02%	0.049%
266	14.612	14.578	14.640	VV	3221	56242	0.81%	0.039%
267	14.682	14.640	14.695	VV	832	16627	0.24%	0.012%
268	14.767	14.695	14.806	VV	14933	218855	3.17%	0.152%
269	14.822	14.806	14.835	VV	645	6996	0.10%	0.005%
270	14.878	14.835	14.896	VV	479461	6253771	90.51%	4.351%
271	14.923	14.896	14.987	VV	570055	6782085	98.15%	4.719%
272	15.029	14.987	15.085	VV	2933	69918	1.01%	0.049%
273	15.101	15.085	15.141	VV	1135	21638	0.31%	0.015%
274	15.166	15.141	15.177	PV	1428	18201	0.26%	0.013%
275	15.184	15.177	15.194	VV	1209	12306	0.18%	0.009%
276	15.202	15.194	15.223	VV	1374	18834	0.27%	0.013%
277	15.228	15.223	15.249	VV	1001	9029	0.13%	0.006%
278	15.253	15.249	15.264	VV	321	1874	0.03%	0.001%
279	15.308	15.264	15.421	VV	14261	378168	5.47%	0.263%
280	15.466	15.421	15.489	VV	7987	127064	1.84%	0.088%
281	15.495	15.489	15.515	VV	1494	22224	0.32%	0.015%
282	15.537	15.515	15.559	VV	4621	63888	0.92%	0.044%
283	15.574	15.559	15.593	VV	2458	31010	0.45%	0.022%
284	15.619	15.593	15.635	VV	886	17561	0.25%	0.012%
285	15.674	15.635	15.689	VV	2426	49133	0.71%	0.034%
286	15.698	15.689	15.739	VV	2207	38168	0.55%	0.027%
287	15.776	15.739	15.815	VV	2651	48730	0.71%	0.034%
288	15.818	15.815	15.826	VV	679	3854	0.06%	0.003%
289	15.857	15.826	15.870	VV	1385	23503	0.34%	0.016%
290	15.883	15.870	15.915	VV	1389	26110	0.38%	0.018%
291	15.946	15.915	15.994	VV	42934	586030	8.48%	0.408%
292	16.009	15.994	16.049	VV	805	15729	0.23%	0.011%
293	16.069	16.057	16.077	PV	283	2240	0.03%	0.002%
294	16.093	16.077	16.098	VV	355	2893	0.04%	0.002%
295	16.147	16.098	16.187	VV	1741	46443	0.67%	0.032%
296	16.202	16.187	16.219	VV	566	8020	0.12%	0.006%
297	16.240	16.219	16.243	VV	737	8245	0.12%	0.006%
298	16.251	16.243	16.274	VV	795	9711	0.14%	0.007%
299	16.288	16.274	16.299	VV	554	6406	0.09%	0.004%

rteres

300	16.347	16.299	16.382	VV	2955	74806	1.08%	0.052%
301	16.428	16.382	16.443	VV	416875	6010967	86.99%	4.182%
302	16.464	16.443	16.487	VV	505281	5835842	84.46%	4.061%
303	16.508	16.487	16.531	VV	8750	116074	1.68%	0.081%
304	16.553	16.531	16.578	VV	4390	70559	1.02%	0.049%
305	16.583	16.578	16.604	VV	1324	14600	0.21%	0.010%
306	16.610	16.604	16.634	VV	721	8556	0.12%	0.006%
307	16.668	16.634	16.689	VV	3125	43220	0.63%	0.030%
308	16.738	16.689	16.765	VV	10873	181696	2.63%	0.126%
309	16.808	16.765	16.839	VV	432459	5599806	81.04%	3.896%
310	16.892	16.839	16.922	VV	48683	683704	9.89%	0.476%
311	16.943	16.922	16.956	VV	1763	25858	0.37%	0.018%
312	16.966	16.956	16.989	VV	1305	17417	0.25%	0.012%
313	17.008	16.989	17.019	VV	861	11211	0.16%	0.008%
314	17.040	17.019	17.091	VV	1226	27268	0.39%	0.019%
315	17.102	17.091	17.120	VV	423	3273	0.05%	0.002%
316	17.162	17.120	17.187	VV	1665	36418	0.53%	0.025%
317	17.193	17.187	17.235	VV	820	12660	0.18%	0.009%
318	17.289	17.235	17.309	PV	2403	54850	0.79%	0.038%
319	17.317	17.309	17.356	VV	1829	42334	0.61%	0.029%
320	17.374	17.356	17.398	VV	1436	23233	0.34%	0.016%
321	17.407	17.398	17.412	VV	732	5129	0.07%	0.004%
322	17.418	17.412	17.423	VV	773	4518	0.07%	0.003%
323	17.449	17.423	17.474	VV	1506	27529	0.40%	0.019%
324	17.492	17.474	17.514	VV	647	11293	0.16%	0.008%
325	17.546	17.514	17.553	VV	539	9517	0.14%	0.007%
326	17.564	17.553	17.572	VV	484	4493	0.07%	0.003%
327	17.576	17.572	17.597	VV	378	3663	0.05%	0.003%
328	17.602	17.597	17.608	VV	308	1186	0.02%	0.001%
329	17.628	17.608	17.650	PV	557	9018	0.13%	0.006%
330	17.666	17.650	17.684	VV	543	7864	0.11%	0.005%
331	17.733	17.684	17.739	VV	1467	24582	0.36%	0.017%
332	17.775	17.739	17.807	VV	38709	544302	7.88%	0.379%
333	17.863	17.807	17.881	VV	1685	42567	0.62%	0.030%
334	17.886	17.881	17.907	VV	1199	12366	0.18%	0.009%
335	17.926	17.907	17.984	VV	1500	40046	0.58%	0.028%
336	18.007	17.984	18.039	VV	1066	20352	0.29%	0.014%
337	18.066	18.039	18.095	VV	2748	50234	0.73%	0.035%
338	18.174	18.095	18.188	VV	404221	6004467	86.90%	4.178%
339	18.212	18.188	18.268	VV	421147	5479884	79.31%	3.813%
340	18.294	18.268	18.310	VV	3440	51406	0.74%	0.036%
341	18.328	18.310	18.375	VV	3176	65760	0.95%	0.046%
342	18.432	18.375	18.478	VV	391312	5562721	80.50%	3.871%
343	18.496	18.478	18.517	VV	1234	23089	0.33%	0.016%
344	18.542	18.517	18.565	VV	2723	46368	0.67%	0.032%
345	18.603	18.565	18.661	VV	37064	551478	7.98%	0.384%
346	18.705	18.661	18.730	VV	2300	65988	0.95%	0.046%
347	18.735	18.730	18.747	VV	1573	14766	0.21%	0.010%
348	18.769	18.747	18.795	VV	1540	39306	0.57%	0.027%
349	18.836	18.795	18.860	VV	1825	55807	0.81%	0.039%
350	18.882	18.860	18.892	VV	1618	27531	0.40%	0.019%
351	18.896	18.892	18.902	VV	1248	7075	0.10%	0.005%

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352	18.969	18.902	19.006	VV	8063	253979	3.68%	0.177%
353	19.011	19.006	19.050	VV	4920	93066	1.35%	0.065%
354	19.055	19.050	19.066	VV	2451	20654	0.30%	0.014%
355	19.086	19.066	19.090	VV	2843	36055	0.52%	0.025%
356	19.099	19.090	19.127	VV	2650	53768	0.78%	0.037%
357	19.135	19.127	19.154	VV	2292	32487	0.47%	0.023%
358	19.168	19.154	19.174	VV	1991	23407	0.34%	0.016%
359	19.198	19.174	19.225	VV	2724	70411	1.02%	0.049%
360	19.254	19.225	19.283	VV	2511	78473	1.14%	0.055%
361	19.292	19.283	19.307	VV	2286	32077	0.46%	0.022%
362	19.310	19.307	19.315	VV	2195	9765	0.14%	0.007%
363	19.383	19.315	19.414	VV	38810	678076	9.81%	0.472%
364	19.421	19.414	19.440	VV	3089	45381	0.66%	0.032%
365	19.452	19.440	19.465	VV	3097	43408	0.63%	0.030%
366	19.490	19.465	19.522	VV	4660	121062	1.75%	0.084%
367	19.559	19.522	19.590	VV	6889	182508	2.64%	0.127%
368	19.625	19.590	19.652	VV	6021	179623	2.60%	0.125%
369	19.677	19.652	19.695	VV	4737	111916	1.62%	0.078%
370	19.750	19.695	19.777	VV	6126	244968	3.55%	0.170%
371	19.782	19.777	19.789	VV	4304	30412	0.44%	0.021%
372	19.806	19.789	19.823	VV	4614	87192	1.26%	0.061%
373	19.834	19.823	19.862	VV	4629	101466	1.47%	0.071%
374	19.868	19.862	19.873	VV	4280	26627	0.39%	0.019%
375	19.877	19.873	19.881	VV	4160	20365	0.29%	0.014%
376	19.932	19.881	19.968	VV	8500	322729	4.67%	0.225%
377	20.026	19.968	20.059	VV	8280	353626	5.12%	0.246%
378	20.074	20.059	20.087	VV	6546	105833	1.53%	0.074%
379	20.119	20.087	20.152	VV	37287	667286	9.66%	0.464%
380	20.198	20.152	20.229	VV	6972	303569	4.39%	0.211%
381	20.262	20.229	20.276	VV	10428	242538	3.51%	0.169%
382	20.284	20.276	20.325	VV	9528	231097	3.34%	0.161%
383	20.365	20.325	20.375	VV	7178	201857	2.92%	0.140%
384	20.399	20.375	20.410	VV	7255	151588	2.19%	0.105%
385	20.470	20.410	20.500	VV	8142	414791	6.00%	0.289%
386	20.505	20.500	20.525	VV	7806	117768	1.70%	0.082%
387	20.529	20.525	20.534	VV	7703	38398	0.56%	0.027%
388	20.544	20.534	20.555	VV	7922	99116	1.43%	0.069%
389	20.568	20.555	20.580	VV	8056	116857	1.69%	0.081%
390	20.586	20.580	20.592	VV	7626	53220	0.77%	0.037%
391	20.611	20.592	20.631	VV	7517	173231	2.51%	0.121%
392	20.658	20.631	20.694	VV	7673	271754	3.93%	0.189%
393	20.727	20.694	20.737	VV	6955	178894	2.59%	0.124%
394	20.768	20.737	20.774	VV	6848	150872	2.18%	0.105%
395	20.779	20.774	20.784	VV	6816	38890	0.56%	0.027%
396	20.788	20.784	20.811	VV	6713	106216	1.54%	0.074%
397	20.856	20.811	20.912	VV	30640	803645	11.63%	0.559%
398	20.937	20.912	20.943	VV	6114	112781	1.63%	0.078%
399	20.965	20.943	21.007	VV	6213	215905	3.12%	0.150%
400	21.029	21.007	21.064	VV	5378	175667	2.54%	0.122%
401	21.079	21.064	21.084	VV	4887	58833	0.85%	0.041%
402	21.104	21.084	21.128	VV	5017	128274	1.86%	0.089%
403	21.153	21.128	21.190	VV	5021	175624	2.54%	0.122%
404	21.197	21.190	21.240	VV	4504	127261	1.84%	0.089%

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405	21.279	21.240	21.287	VV	4953	127271	1.84%	0.089%
406	21.305	21.287	21.335	VV	5074	136279	1.97%	0.095%
407	21.346	21.335	21.402	VV	4314	151627	2.19%	0.106%
408	21.418	21.402	21.428	VV	3674	55495	0.80%	0.039%
409	21.447	21.428	21.462	VV	3572	70452	1.02%	0.049%
410	21.477	21.462	21.500	VV	3583	78275	1.13%	0.054%
411	21.524	21.500	21.567	VV	3496	127736	1.85%	0.089%
412	21.599	21.567	21.657	VV	3434	154511	2.24%	0.108%
413	21.685	21.657	21.716	VV	3196	92702	1.34%	0.065%
414	21.777	21.716	21.882	VV	20345	610685	8.84%	0.425%
415	21.948	21.882	21.960	VV	1577	71527	1.04%	0.050%
416	21.982	21.960	22.024	VV	1970	55105	0.80%	0.038%
417	22.051	22.024	22.170	VV	1126	49172	0.71%	0.034%

Sum of corrected areas: 143719842

Aromatic EPH 040725.M Fri Apr 11 01:44:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068568.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 02:32
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 03:48:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.148	3752451	40.395 ug/ml
Spiked Amount	50.000		Recovery =	80.79%
	Target Compounds			
1) T	n-Nonane (C9)	3.445	1615097	15.335 ug/ml
2) T	n-Decane (C10)	4.520	2053613	19.491 ug/ml
4) T	n-Dodecane (C12)	6.545	2675088	25.438 ug/ml
6) T	n-Tetradecane (C14)	8.344	3338038	32.470 ug/ml
7) T	n-Hexadecane (C16)	9.947	3862004	37.922 ug/ml
8) T	n-Octadecane (C18)	11.390	3934684	39.099 ug/ml
10) T	n-Eicosane (C20)	12.702	4025090	40.922 ug/ml
11) T	n-Heneicosane (C21)	13.315	3854750	39.553 ug/ml
13) T	n-Docosane (C22)	13.901	3832142	39.672 ug/ml
14) T	n-Tetracosane (C24)	15.006	3919629	41.179 ug/ml
15) T	n-Hexacosane (C26)	16.029	3759195	40.246 ug/ml
16) T	n-Octacosane (C28)	16.980	3751347	40.973 ug/ml
17) T	n-Tricontane (C30)	17.869	3816537	41.515 ug/ml
18) T	n-Dotriacontane (C32)	18.702	3791590	41.335 ug/ml
19) T	n-Tetratriacontane (C34)	19.488	3787523	42.395 ug/ml
20) T	n-Hexatriacontane (C36)	20.229	3683800	41.123 ug/ml
21) T	n-Octatriacontane (C38)	21.005	3682580	41.652 ug/ml
22) T	n-Tetracontane (C40)	21.985	3559361	40.307 ug/ml

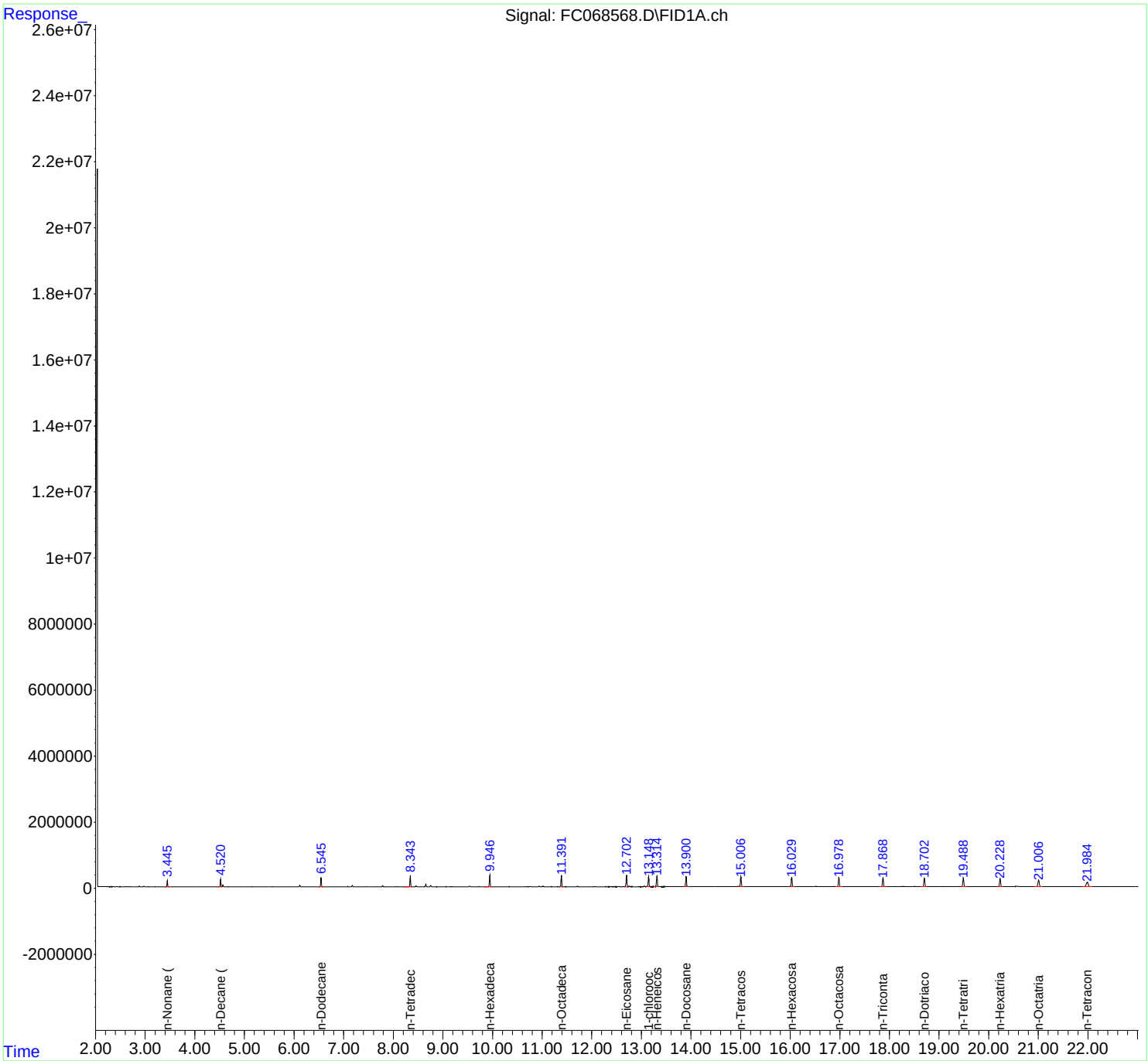
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068568.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 02:32
Operator : YP/AJ
Sample : Q1746-01MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-149-SB01MSD

Integration File: autoint1.e
Quant Time: Apr 11 03:48:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC041125AL\
Data File : FC068568.D
Signal(s) : FID1A.ch
Acq On : 11 Apr 2025 02:32
Sample : Q1746-01MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.316	2.304	2.347	PH	1730	19634	0.49%	0.026%
2	2.361	2.347	2.399	PV	1734	12600	0.31%	0.016%
3	2.427	2.399	2.478	PV	4822	44714	1.11%	0.058%
4	2.491	2.478	2.508	VV	956	7256	0.18%	0.009%
5	2.519	2.508	2.561	VV	155	1737	0.04%	0.002%
6	2.590	2.561	2.624	VV	2050	18586	0.46%	0.024%
7	2.648	2.624	2.670	PV	6680	51638	1.28%	0.067%
8	2.697	2.670	2.740	VV	7136	66232	1.64%	0.086%
9	2.752	2.740	2.768	VV	213	2304	0.06%	0.003%
10	2.779	2.768	2.804	VV	543	5331	0.13%	0.007%
11	2.816	2.804	2.851	VV	251	2913	0.07%	0.004%
12	2.879	2.851	2.944	PV	20941	161947	4.02%	0.210%
13	2.970	2.944	3.004	VV	10712	137562	3.41%	0.179%
14	3.020	3.004	3.049	VV	859	8178	0.20%	0.011%
15	3.070	3.049	3.097	VV	1350	12369	0.31%	0.016%
16	3.109	3.097	3.130	VV	163	1644	0.04%	0.002%
17	3.149	3.130	3.172	VV	179	2349	0.06%	0.003%
18	3.198	3.172	3.248	VV	1308	11561	0.29%	0.015%
19	3.271	3.248	3.288	VV	209	2306	0.06%	0.003%
20	3.294	3.288	3.328	VV	152	1815	0.05%	0.002%
21	3.341	3.328	3.388	VV	126	2066	0.05%	0.003%
22	3.397	3.388	3.413	VV	117	905	0.02%	0.001%
23	3.445	3.413	3.516	PV	194996	1618488	40.14%	2.103%
24	3.551	3.516	3.564	PV	194	3187	0.08%	0.004%
25	3.576	3.564	3.589	VV	211	2880	0.07%	0.004%
26	3.598	3.589	3.620	VV	184	2294	0.06%	0.003%
27	3.629	3.620	3.637	VV	199	1324	0.03%	0.002%
28	3.650	3.637	3.685	VV	210	3435	0.09%	0.004%
29	3.724	3.685	3.745	PV	333	6264	0.16%	0.008%
30	3.769	3.745	3.807	VV	364	7924	0.20%	0.010%
31	3.824	3.807	3.851	VV	379	5478	0.14%	0.007%
32	3.861	3.851	3.877	VV	312	2615	0.06%	0.003%
33	3.896	3.877	3.909	VV	252	2659	0.07%	0.003%
34	3.921	3.909	3.934	VV	155	1741	0.04%	0.002%
35	3.947	3.934	3.959	VV	442	3762	0.09%	0.005%
36	3.967	3.959	3.988	VV	278	2391	0.06%	0.003%

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37	3.998	3.988	4.017	VV	192	2662	0.07%	0.003%
38	4.033	4.017	4.094	VV	232	6022	0.15%	0.008%
39	4.121	4.094	4.133	VV	450	5756	0.14%	0.007%
40	4.148	4.133	4.167	VV	853	8662	0.21%	0.011%
41	4.179	4.167	4.197	VV	200	2917	0.07%	0.004%
42	4.216	4.197	4.260	VV	352	6140	0.15%	0.008%
43	4.292	4.260	4.321	VV	614	11004	0.27%	0.014%
44	4.328	4.321	4.356	VV	285	3480	0.09%	0.005%
45	4.369	4.356	4.409	VV	185	2910	0.07%	0.004%
46	4.480	4.409	4.490	PV	212	5637	0.14%	0.007%
47	4.520	4.490	4.545	VV	230288	2058440	51.05%	2.674%
48	4.566	4.545	4.608	VV	56601	494446	12.26%	0.642%
49	4.628	4.608	4.654	VV	1248	13978	0.35%	0.018%
50	4.675	4.654	4.711	VV	1565	22110	0.55%	0.029%
51	4.746	4.711	4.760	VV	711	9746	0.24%	0.013%
52	4.776	4.760	4.801	VV	1199	12266	0.30%	0.016%
53	4.808	4.801	4.848	VV	239	3968	0.10%	0.005%
54	4.855	4.848	4.888	VV	191	2477	0.06%	0.003%
55	4.896	4.888	4.924	VV	182	2501	0.06%	0.003%
56	4.943	4.924	4.987	VV	153	3976	0.10%	0.005%
57	5.004	4.987	5.033	VV	222	2554	0.06%	0.003%
58	5.056	5.033	5.066	PV	144	1413	0.04%	0.002%
59	5.079	5.066	5.107	VV	177	2203	0.05%	0.003%
60	5.131	5.107	5.140	VV	441	4052	0.10%	0.005%
61	5.158	5.140	5.188	VV	2003	22790	0.57%	0.030%
62	5.216	5.188	5.231	VV	456	5679	0.14%	0.007%
63	5.244	5.231	5.258	VV	233	2368	0.06%	0.003%
64	5.265	5.258	5.292	VV	180	2345	0.06%	0.003%
65	5.300	5.292	5.341	VV	106	1243	0.03%	0.002%
66	5.355	5.341	5.367	VV	164	1643	0.04%	0.002%
67	5.385	5.367	5.423	VV	322	4481	0.11%	0.006%
68	5.437	5.423	5.476	VV	164	2710	0.07%	0.004%
69	5.488	5.476	5.506	VV	72	908	0.02%	0.001%
70	5.527	5.506	5.541	PV	166	1923	0.05%	0.002%
71	5.561	5.541	5.584	VV	1602	16914	0.42%	0.022%
72	5.603	5.584	5.631	VV	868	10008	0.25%	0.013%
73	5.660	5.631	5.681	VV	192	2929	0.07%	0.004%
74	5.751	5.681	5.792	VV	272	7696	0.19%	0.010%
75	5.819	5.792	5.831	VV	128	1642	0.04%	0.002%
76	5.851	5.831	5.884	VV	281	5654	0.14%	0.007%
77	5.909	5.884	5.924	VV	144	2211	0.05%	0.003%
78	5.945	5.924	5.968	VV	130	2356	0.06%	0.003%
79	5.975	5.968	6.000	VV	118	1260	0.03%	0.002%
80	6.017	6.000	6.028	PV	80	803	0.02%	0.001%
81	6.072	6.028	6.084	VV	132	2407	0.06%	0.003%
82	6.117	6.084	6.150	VV	52321	479000	11.88%	0.622%
83	6.163	6.150	6.184	VV	335	3752	0.09%	0.005%
84	6.204	6.184	6.244	VV	606	8478	0.21%	0.011%
85	6.265	6.244	6.307	VV	353	6041	0.15%	0.008%
86	6.331	6.307	6.356	VV	213	4281	0.11%	0.006%
87	6.383	6.356	6.414	VV	152	4048	0.10%	0.005%
88	6.428	6.414	6.448	VV	141	2272	0.06%	0.003%
89	6.475	6.448	6.514	VV	218	5078	0.13%	0.007%

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90	6.545	6.514	6.614	VV	277616	2679913	66.47%	3.482%
91	6.631	6.614	6.648	VV	310	3372	0.08%	0.004%
92	6.694	6.648	6.714	VV	1046	13943	0.35%	0.018%
93	6.731	6.714	6.751	VV	280	4424	0.11%	0.006%
94	6.769	6.751	6.793	VV	314	4482	0.11%	0.006%
95	6.835	6.793	6.845	VV	154	2289	0.06%	0.003%
96	6.873	6.845	6.893	VV	244	3516	0.09%	0.005%
97	6.916	6.893	6.933	VV	163	2825	0.07%	0.004%
98	6.948	6.933	6.974	VV	193	3449	0.09%	0.004%
99	6.990	6.974	7.021	VV	338	4880	0.12%	0.006%
100	7.043	7.021	7.058	VV	538	7188	0.18%	0.009%
101	7.083	7.058	7.133	VV	1471	24209	0.60%	0.031%
102	7.174	7.133	7.230	VV	44230	434027	10.76%	0.564%
103	7.249	7.230	7.266	VV	711	7742	0.19%	0.010%
104	7.274	7.266	7.291	VV	231	2602	0.06%	0.003%
105	7.331	7.291	7.354	VV	1040	17348	0.43%	0.023%
106	7.365	7.354	7.377	VV	259	3036	0.08%	0.004%
107	7.392	7.377	7.418	VV	263	5109	0.13%	0.007%
108	7.438	7.418	7.451	VV	322	4955	0.12%	0.006%
109	7.470	7.451	7.504	VV	2615	29454	0.73%	0.038%
110	7.564	7.504	7.600	VV	464	12683	0.31%	0.016%
111	7.612	7.600	7.631	VV	144	2263	0.06%	0.003%
112	7.647	7.631	7.684	VV	333	5223	0.13%	0.007%
113	7.735	7.684	7.761	VV	546	9304	0.23%	0.012%
114	7.787	7.761	7.861	VV	33876	331821	8.23%	0.431%
115	7.895	7.861	7.907	VV	361	6368	0.16%	0.008%
116	7.921	7.907	7.940	VV	322	5075	0.13%	0.007%
117	7.950	7.940	7.974	VV	324	4314	0.11%	0.006%
118	7.992	7.974	8.012	VV	317	4772	0.12%	0.006%
119	8.038	8.012	8.074	VV	1942	25598	0.63%	0.033%
120	8.095	8.074	8.143	VV	1670	22528	0.56%	0.029%
121	8.164	8.143	8.181	VV	612	8056	0.20%	0.010%
122	8.199	8.181	8.228	VV	382	7112	0.18%	0.009%
123	8.250	8.228	8.266	VV	690	9171	0.23%	0.012%
124	8.273	8.266	8.285	VV	321	3093	0.08%	0.004%
125	8.302	8.285	8.310	VV	367	3944	0.10%	0.005%
126	8.344	8.310	8.414	VV	334602	3345641	82.98%	4.346%
127	8.459	8.414	8.514	VV	28670	295671	7.33%	0.384%
128	8.535	8.514	8.556	VV	346	6843	0.17%	0.009%
129	8.574	8.556	8.611	VV	453	6803	0.17%	0.009%
130	8.657	8.611	8.727	PV	82315	807180	20.02%	1.049%
131	8.756	8.727	8.783	VV	44367	435504	10.80%	0.566%
132	8.805	8.783	8.820	VV	418	8527	0.21%	0.011%
133	8.834	8.820	8.851	VV	511	7426	0.18%	0.010%
134	8.880	8.851	8.923	VV	1418	26690	0.66%	0.035%
135	8.936	8.923	8.965	VV	321	5890	0.15%	0.008%
136	8.997	8.965	9.013	VV	299	5217	0.13%	0.007%
137	9.030	9.013	9.041	VV	255	3485	0.09%	0.005%
138	9.065	9.041	9.085	VV	1302	16476	0.41%	0.021%
139	9.103	9.085	9.134	VV	626	12248	0.30%	0.016%
140	9.166	9.134	9.210	VV	2551	47455	1.18%	0.062%
141	9.221	9.210	9.237	VV	312	3801	0.09%	0.005%

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142	9.254	9.237	9.276	VV	398	5464	0.14%	0.007%
143	9.301	9.276	9.337	VV	253	5261	0.13%	0.007%
144	9.353	9.337	9.374	VV	183	2578	0.06%	0.003%
145	9.404	9.374	9.438	VV	282	7730	0.19%	0.010%
146	9.466	9.438	9.510	VV	565	12366	0.31%	0.016%
147	9.539	9.510	9.571	VV	21042	220923	5.48%	0.287%
148	9.585	9.571	9.601	VV	686	8265	0.20%	0.011%
149	9.624	9.601	9.648	VV	408	6695	0.17%	0.009%
150	9.677	9.648	9.702	VV	577	10830	0.27%	0.014%
151	9.725	9.702	9.743	VV	1997	21757	0.54%	0.028%
152	9.755	9.743	9.776	VV	699	7654	0.19%	0.010%
153	9.818	9.776	9.846	VV	682	9664	0.24%	0.013%
154	9.865	9.846	9.910	VV	405	9430	0.23%	0.012%
155	9.947	9.910	10.000	VV	356383	3858558	95.70%	5.013%
156	10.043	10.000	10.103	VV	302	9699	0.24%	0.013%
157	10.116	10.103	10.202	VV	110	2455	0.06%	0.003%
158	10.228	10.202	10.245	PV	137	1335	0.03%	0.002%
159	10.290	10.245	10.304	VV	248	4977	0.12%	0.006%
160	10.336	10.304	10.360	VV	1036	16013	0.40%	0.021%
161	10.381	10.360	10.399	VV	382	5788	0.14%	0.008%
162	10.422	10.399	10.452	VV	422	6998	0.17%	0.009%
163	10.479	10.452	10.514	VV	261	4956	0.12%	0.006%
164	10.548	10.514	10.575	VV	253	6555	0.16%	0.009%
165	10.587	10.575	10.596	VV	351	3201	0.08%	0.004%
166	10.616	10.596	10.648	VV	388	8454	0.21%	0.011%
167	10.683	10.648	10.715	VV	2678	36063	0.89%	0.047%
168	10.757	10.715	10.790	VV	2106	51184	1.27%	0.066%
169	10.815	10.790	10.844	VV	536	10914	0.27%	0.014%
170	10.862	10.844	10.886	VV	223	4204	0.10%	0.005%
171	10.906	10.886	10.918	VV	296	4277	0.11%	0.006%
172	10.943	10.918	10.979	VV	18986	202112	5.01%	0.263%
173	11.017	10.979	11.045	VV	19707	211345	5.24%	0.275%
174	11.080	11.045	11.128	VV	399	15880	0.39%	0.021%
175	11.140	11.128	11.170	VV	339	5272	0.13%	0.007%
176	11.192	11.170	11.229	VV	1172	13783	0.34%	0.018%
177	11.242	11.229	11.274	PV	283	2239	0.06%	0.003%
178	11.318	11.274	11.350	VV	961	14367	0.36%	0.019%
179	11.390	11.350	11.448	VV	352127	3942573	97.79%	5.122%
180	11.480	11.448	11.524	VV	871	14493	0.36%	0.019%
181	11.545	11.524	11.567	PV	242	2719	0.07%	0.004%
182	11.589	11.567	11.603	PV	108	1364	0.03%	0.002%
183	11.647	11.603	11.660	VV	108	2891	0.07%	0.004%
184	11.712	11.660	11.764	VV	12128	137430	3.41%	0.179%
185	11.781	11.764	11.806	VV	550	8341	0.21%	0.011%
186	11.842	11.806	11.854	VV	373	6703	0.17%	0.009%
187	11.871	11.854	11.894	VV	365	6468	0.16%	0.008%
188	11.900	11.894	11.918	VV	245	2451	0.06%	0.003%
189	11.938	11.918	11.961	VV	184	3948	0.10%	0.005%
190	11.992	11.961	12.004	VV	209	3910	0.10%	0.005%
191	12.058	12.004	12.091	VV	2806	45745	1.13%	0.059%
192	12.110	12.091	12.123	VV	334	4522	0.11%	0.006%
193	12.153	12.123	12.177	VV	512	8793	0.22%	0.011%
194	12.211	12.177	12.240	VV	233	6770	0.17%	0.009%

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195	12.280	12.240	12.309	VV	503	11665	0.29%	0.015%
196	12.353	12.309	12.374	VV	618	14923	0.37%	0.019%
197	12.395	12.374	12.411	VV	711	9526	0.24%	0.012%
198	12.434	12.411	12.458	VV	452	10421	0.26%	0.014%
199	12.471	12.458	12.482	VV	506	6526	0.16%	0.008%
200	12.489	12.482	12.499	VV	443	4237	0.11%	0.006%
201	12.524	12.499	12.596	VV	1240	36537	0.91%	0.047%
202	12.638	12.596	12.663	VV	866	16037	0.40%	0.021%
203	12.702	12.663	12.736	VV	349154	4031875	100.00%	5.238%
204	12.763	12.736	12.806	VV	14757	167684	4.16%	0.218%
205	12.818	12.806	12.886	VV	304	8295	0.21%	0.011%
206	12.909	12.886	12.927	VV	174	2231	0.06%	0.003%
207	12.952	12.927	12.984	VV	619	11394	0.28%	0.015%
208	12.990	12.984	13.007	VV	257	2674	0.07%	0.003%
209	13.022	13.007	13.032	VV	195	2416	0.06%	0.003%
210	13.062	13.032	13.108	VV	18114	204267	5.07%	0.265%
211	13.148	13.108	13.183	VV	319006	3765651	93.40%	4.892%
212	13.197	13.183	13.231	VV	483	9465	0.23%	0.012%
213	13.253	13.231	13.275	VV	381	8636	0.21%	0.011%
214	13.315	13.275	13.349	VV	326980	3870507	96.00%	5.028%
215	13.363	13.349	13.382	VV	509	8061	0.20%	0.010%
216	13.390	13.382	13.411	VV	326	5097	0.13%	0.007%
217	13.420	13.411	13.464	VV	308	6801	0.17%	0.009%
218	13.489	13.464	13.500	VV	292	4981	0.12%	0.006%
219	13.534	13.500	13.565	VV	478	14172	0.35%	0.018%
220	13.590	13.565	13.609	VV	461	9741	0.24%	0.013%
221	13.658	13.609	13.671	VV	492	13207	0.33%	0.017%
222	13.690	13.671	13.711	VV	695	11651	0.29%	0.015%
223	13.742	13.711	13.780	VV	1064	23403	0.58%	0.030%
224	13.804	13.780	13.823	VV	437	8920	0.22%	0.012%
225	13.846	13.823	13.863	VV	878	14042	0.35%	0.018%
226	13.901	13.863	13.948	VV	312402	3847462	95.43%	4.998%
227	13.959	13.948	14.021	VV	515	14777	0.37%	0.019%
228	14.038	14.021	14.069	VV	314	7487	0.19%	0.010%
229	14.125	14.069	14.165	VV	594	20883	0.52%	0.027%
230	14.185	14.165	14.209	VV	352	7843	0.19%	0.010%
231	14.227	14.209	14.248	VV	313	6674	0.17%	0.009%
232	14.266	14.248	14.275	VV	338	4881	0.12%	0.006%
233	14.333	14.275	14.394	VV	1469	38899	0.96%	0.051%
234	14.420	14.394	14.436	VV	530	9229	0.23%	0.012%
235	14.460	14.436	14.485	VV	1625	23417	0.58%	0.030%
236	14.534	14.485	14.551	VV	357	11723	0.29%	0.015%
237	14.561	14.551	14.578	VV	416	5245	0.13%	0.007%
238	14.590	14.578	14.618	VV	352	6526	0.16%	0.008%
239	14.626	14.618	14.646	VV	325	4446	0.11%	0.006%
240	14.666	14.646	14.698	VV	416	9292	0.23%	0.012%
241	14.732	14.698	14.778	VV	466	15641	0.39%	0.020%
242	14.787	14.778	14.800	VV	290	3404	0.08%	0.004%
243	14.818	14.800	14.827	VV	335	4721	0.12%	0.006%
244	14.859	14.827	14.884	VV	470	12161	0.30%	0.016%
245	14.891	14.884	14.904	VV	270	2660	0.07%	0.003%
246	14.940	14.904	14.961	VV	9430	116493	2.89%	0.151%

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247	15.006	14.961	15.089	VV	297561	3936236	97.63%	5.114%
248	15.105	15.089	15.126	VV	216	2863	0.07%	0.004%
249	15.141	15.126	15.151	VV	131	1328	0.03%	0.002%
250	15.158	15.151	15.171	VV	73	785	0.02%	0.001%
251	15.192	15.171	15.234	VV	217	5802	0.14%	0.008%
252	15.248	15.234	15.271	VV	237	3199	0.08%	0.004%
253	15.279	15.271	15.298	VV	222	2246	0.06%	0.003%
254	15.344	15.298	15.360	VV	323	7326	0.18%	0.010%
255	15.383	15.360	15.418	VV	309	5492	0.14%	0.007%
256	15.435	15.418	15.471	VV	266	5245	0.13%	0.007%
257	15.482	15.471	15.494	VV	147	1629	0.04%	0.002%
258	15.524	15.494	15.600	VV	1792	30885	0.77%	0.040%
259	15.618	15.600	15.652	VV	170	2989	0.07%	0.004%
260	15.671	15.652	15.681	VV	148	1481	0.04%	0.002%
261	15.704	15.681	15.721	VV	256	3651	0.09%	0.005%
262	15.732	15.721	15.742	VV	172	1868	0.05%	0.002%
263	15.758	15.742	15.778	VV	236	3437	0.09%	0.004%
264	15.793	15.778	15.814	VV	199	3041	0.08%	0.004%
265	15.846	15.814	15.881	VV	283	6745	0.17%	0.009%
266	15.898	15.881	15.946	VV	199	5382	0.13%	0.007%
267	16.028	15.946	16.117	VV	285885	3786154	93.91%	4.919%
268	16.127	16.117	16.147	VV	172	1224	0.03%	0.002%
269	16.199	16.147	16.208	PV	286	4815	0.12%	0.006%
270	16.251	16.208	16.303	VV	349	10512	0.26%	0.014%
271	16.336	16.303	16.360	VV	390	6946	0.17%	0.009%
272	16.388	16.360	16.431	VV	274	8253	0.20%	0.011%
273	16.444	16.431	16.458	VV	114	1523	0.04%	0.002%
274	16.497	16.458	16.513	VV	7862	110118	2.73%	0.143%
275	16.527	16.513	16.574	VV	7824	101995	2.53%	0.133%
276	16.585	16.574	16.592	VV	256	2261	0.06%	0.003%
277	16.673	16.592	16.710	VV	568	25886	0.64%	0.034%
278	16.740	16.710	16.792	VV	458	17298	0.43%	0.022%
279	16.818	16.792	16.834	VV	413	8821	0.22%	0.011%
280	16.878	16.834	16.912	VV	7673	101774	2.52%	0.132%
281	16.980	16.912	17.049	VV	276472	3771867	93.55%	4.900%
282	17.094	17.049	17.113	VV	470	14156	0.35%	0.018%
283	17.124	17.113	17.153	VV	463	7397	0.18%	0.010%
284	17.233	17.153	17.274	VV	747	29960	0.74%	0.039%
285	17.307	17.274	17.352	VV	810	20403	0.51%	0.027%
286	17.427	17.352	17.454	VV	3022	58362	1.45%	0.076%
287	17.468	17.454	17.478	VV	364	4990	0.12%	0.006%
288	17.484	17.478	17.504	VV	376	3884	0.10%	0.005%
289	17.522	17.504	17.531	VV	318	4214	0.10%	0.005%
290	17.558	17.531	17.589	VV	729	17021	0.42%	0.022%
291	17.607	17.589	17.624	VV	276	4955	0.12%	0.006%
292	17.639	17.624	17.655	VV	381	5165	0.13%	0.007%
293	17.664	17.655	17.684	VV	272	3705	0.09%	0.005%
294	17.757	17.684	17.798	VV	3242	60993	1.51%	0.079%
295	17.869	17.798	17.908	VV	273746	3826952	94.92%	4.972%
296	17.921	17.908	17.938	VV	370	4790	0.12%	0.006%
297	17.959	17.938	17.980	VV	246	4855	0.12%	0.006%
298	18.028	17.980	18.110	VV	1329	37625	0.93%	0.049%
299	18.131	18.110	18.171	VV	324	7882	0.20%	0.010%

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300	18.185	18.171	18.198	VV	240	3045	0.08%	0.004%
301	18.205	18.198	18.211	VV	226	1660	0.04%	0.002%
302	18.247	18.211	18.266	VV	5742	75148	1.86%	0.098%
303	18.288	18.266	18.338	VV	9524	129674	3.22%	0.168%
304	18.393	18.338	18.451	PV	1210	26975	0.67%	0.035%
305	18.502	18.451	18.531	VV	5280	70402	1.75%	0.091%
306	18.548	18.531	18.581	VV	433	7925	0.20%	0.010%
307	18.590	18.581	18.624	VV	281	4584	0.11%	0.006%
308	18.702	18.624	18.755	PV	255858	3793436	94.09%	4.928%
309	18.821	18.755	18.844	PV	672	12608	0.31%	0.016%
310	18.871	18.844	18.928	VV	586	14656	0.36%	0.019%
311	18.952	18.928	18.971	VV	340	5952	0.15%	0.008%
312	18.999	18.971	19.028	VV	270	6140	0.15%	0.008%
313	19.098	19.028	19.131	VV	4941	77222	1.92%	0.100%
314	19.148	19.131	19.191	VV	563	10119	0.25%	0.013%
315	19.220	19.191	19.258	VV	459	11316	0.28%	0.015%
316	19.277	19.258	19.290	VV	367	5236	0.13%	0.007%
317	19.301	19.290	19.308	VV	408	3629	0.09%	0.005%
318	19.315	19.308	19.321	VV	395	2795	0.07%	0.004%
319	19.331	19.321	19.374	VV	438	12590	0.31%	0.016%
320	19.391	19.374	19.404	VV	476	7905	0.20%	0.010%
321	19.418	19.404	19.441	VV	511	10243	0.25%	0.013%
322	19.488	19.441	19.558	VV	258286	3811274	94.53%	4.951%
323	19.634	19.558	19.659	VV	903	38183	0.95%	0.050%
324	19.665	19.659	19.672	VV	720	5541	0.14%	0.007%
325	19.725	19.672	19.757	VV	974	40354	1.00%	0.052%
326	19.776	19.757	19.820	VV	1016	33169	0.82%	0.043%
327	19.860	19.820	19.894	VV	2517	65771	1.63%	0.085%
328	19.939	19.894	19.943	VV	1153	31234	0.77%	0.041%
329	19.963	19.943	20.003	VV	1214	42493	1.05%	0.055%
330	20.041	20.003	20.068	VV	1457	51452	1.28%	0.067%
331	20.132	20.068	20.174	VV	2144	107784	2.67%	0.140%
332	20.229	20.174	20.283	VV	249332	3796257	94.16%	4.932%
333	20.315	20.283	20.333	VV	2004	57913	1.44%	0.075%
334	20.380	20.333	20.431	VV	2162	118184	2.93%	0.154%
335	20.446	20.431	20.471	VV	2130	48335	1.20%	0.063%
336	20.586	20.471	20.690	VV	5487	420313	10.42%	0.546%
337	20.738	20.690	20.761	VV	2032	80230	1.99%	0.104%
338	20.780	20.761	20.834	VV	1904	78175	1.94%	0.102%
339	20.854	20.834	20.943	VV	1715	99814	2.48%	0.130%
340	21.005	20.943	21.081	VV	202377	3797506	94.19%	4.933%
341	21.104	21.081	21.118	VV	1435	30406	0.75%	0.040%
342	21.128	21.118	21.202	VV	1384	63315	1.57%	0.082%
343	21.216	21.202	21.230	VV	1215	19720	0.49%	0.026%
344	21.260	21.230	21.308	VV	1175	51710	1.28%	0.067%
345	21.319	21.308	21.341	VV	1020	19071	0.47%	0.025%
346	21.352	21.341	21.412	VV	973	38832	0.96%	0.050%
347	21.461	21.412	21.547	VV	1517	78402	1.94%	0.102%
348	21.556	21.547	21.567	VV	771	9274	0.23%	0.012%
349	21.578	21.567	21.588	VV	808	9096	0.23%	0.012%
350	21.617	21.588	21.641	VV	799	23376	0.58%	0.030%
351	21.682	21.641	21.708	VV	753	27949	0.69%	0.036%

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352	21.718	21.708	21.780	VV	725	25506	0.63%	0.033%
353	21.795	21.780	21.824	VV	572	12773	0.32%	0.017%
354	21.847	21.824	21.907	VV	500	18874	0.47%	0.025%
355	21.986	21.907	22.116	VV	134811	3591444	89.08%	4.666%
356	22.124	22.116	22.142	VV	224	3205	0.08%	0.004%
357	22.148	22.142	22.161	VV	222	2095	0.05%	0.003%
358	22.179	22.161	22.238	VV	198	5979	0.15%	0.008%
359	22.245	22.238	22.298	VV	127	2674	0.07%	0.003%

Sum of corrected areas: 76973876

Aliphatic EPH 040925.M Fri Apr 11 04:59:20 2025

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Manual Integration Report

Sequence:	FC041125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1746-05DL	FC068547.D	1-chlorooctadecane (SURR)	yogesh	4/11/2025 7:46:04 AM	mohammad	4/14/2025 12:39:51	Peak Integrated by Software
Q1760-05MS	FC068555.D	n-Nonane (C9)	yogesh	4/11/2025 7:46:07 AM	mohammad	4/14/2025 12:39:51	Peak Integrated by Software
Q1760-05MSD	FC068556.D	n-Decane (C10)	yogesh	4/11/2025 7:46:07 AM	mohammad	4/14/2025 12:39:51	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD040725AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FD049232.D	Bnezo[k]fluoranthene (C30.14)	yogesh	4/8/2025 7:46:50 AM	mohammad	4/9/2025 2:58:56	Peak Integrated by Software
100 PPM AROMATIC HC	FD049232.D	Dibenz[a,h]anthracene (C30.36)	yogesh	4/8/2025 7:46:50 AM	mohammad	4/9/2025 2:58:56	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD041025AR	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,
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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM		
SubDirectory	FC040925AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068513.D	08 Apr 2025 13:05	YP/AJ	Ok
2	I.BLK	FC068514.D	08 Apr 2025 13:42	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068515.D	08 Apr 2025 14:19	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068516.D	08 Apr 2025 14:56	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068517.D	08 Apr 2025 15:34	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068518.D	08 Apr 2025 16:12	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068519.D	08 Apr 2025 16:48	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068520.D	08 Apr 2025 17:26	YP/AJ	Ok
9	I.BLK	FC068521.D	08 Apr 2025 18:41	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068522.D	08 Apr 2025 19:18	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068544.D	10 Apr 2025 06:44	YP/AJ	Ok
2	I.BLK	FC068545.D	10 Apr 2025 07:20	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068546.D	10 Apr 2025 07:56	YP/AJ	Ok
4	Q1746-05DL	FC068547.D	10 Apr 2025 08:48	YP/AJ	Ok,M
5	I.BLK	FC068548.D	10 Apr 2025 10:02	YP/AJ	Ok
6	20 PPM ALIPHATIC HC STD	FC068549.D	10 Apr 2025 11:16	YP/AJ	Ok
7	PB167545BL	FC068550.D	10 Apr 2025 13:35	YP/AJ	Ok
8	PB167545BS	FC068551.D	10 Apr 2025 14:10	YP/AJ	Ok
9	PB167545BSD	FC068552.D	10 Apr 2025 14:48	YP/AJ	Ok
10	Q1760-05	FC068553.D	10 Apr 2025 15:25	YP/AJ	Dilution
11	Q1760-05D	FC068554.D	10 Apr 2025 16:01	YP/AJ	Ok
12	Q1760-05MS	FC068555.D	10 Apr 2025 16:38	YP/AJ	Ok,M
13	Q1760-05MSD	FC068556.D	10 Apr 2025 17:15	YP/AJ	Ok,M
14	Q1760-06	FC068557.D	10 Apr 2025 17:53	YP/AJ	Ok
15	I.BLK	FC068558.D	10 Apr 2025 19:07	YP/AJ	Ok
16	20 PPM ALIPHATIC HC STD	FC068559.D	10 Apr 2025 19:45	YP/AJ	Ok
17	PB167513BL	FC068560.D	10 Apr 2025 21:36	YP/AJ	Ok
18	PB167513BS	FC068561.D	10 Apr 2025 22:14	YP/AJ	Ok
19	PB167513BSD	FC068562.D	10 Apr 2025 22:51	YP/AJ	Ok
20	Q1744-01	FC068563.D	10 Apr 2025 23:28	YP/AJ	Ok
21	Q1744-03	FC068564.D	11 Apr 2025 00:05	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1746-01	FC068565.D	11 Apr 2025 00:41	YP/AJ	Ok
23	Q1746-01D	FC068566.D	11 Apr 2025 01:18	YP/AJ	Ok
24	Q1746-01MS	FC068567.D	11 Apr 2025 01:55	YP/AJ	Ok
25	Q1746-01MSD	FC068568.D	11 Apr 2025 02:32	YP/AJ	Ok
26	Q1746-03	FC068569.D	11 Apr 2025 03:09	YP/AJ	Ok
27	I.BLK	FC068570.D	11 Apr 2025 03:46	YP/AJ	Ok
28	20 PPM ALIPHATIC HC STD	FC068571.D	11 Apr 2025 04:22	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD040725AR

Review By	yogesh	Review On	4/7/2025 3:22:24 PM		
Supervise By	mohammad	Supervise On	4/9/2025 2:58:56 AM		
SubDirectory	FD040725AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049230.D	07 Apr 2025 15:00	YP/AJ	Ok
2	I.BLK	FD049231.D	07 Apr 2025 15:38	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049232.D	07 Apr 2025 16:15	YP/AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FD049233.D	07 Apr 2025 16:52	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049234.D	07 Apr 2025 17:30	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049235.D	07 Apr 2025 18:08	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049236.D	07 Apr 2025 18:45	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049237.D	07 Apr 2025 19:23	YP/AJ	Ok
9	I.BLK	FD049238.D	07 Apr 2025 20:37	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049239.D	07 Apr 2025 21:15	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD041025AR

Review By	yogesh	Review On	4/10/2025 1:50:11 PM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:36 AM		
SubDirectory	FD041025AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049266.D	10 Apr 2025 06:44	YP/AJ	Ok
2	I.BLK	FD049267.D	10 Apr 2025 13:35	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049268.D	10 Apr 2025 14:10	YP/AJ	Ok
4	PB167513BL	FD049269.D	10 Apr 2025 14:48	YP/AJ	Ok
5	PB167513BS	FD049270.D	10 Apr 2025 15:25	YP/AJ	Ok
6	PB167513BSD	FD049271.D	10 Apr 2025 16:01	YP/AJ	Ok
7	Q1744-01	FD049272.D	10 Apr 2025 16:38	YP/AJ	Ok
8	Q1744-03	FD049273.D	10 Apr 2025 17:15	YP/AJ	Ok
9	Q1746-01	FD049274.D	10 Apr 2025 17:53	YP/AJ	Ok
10	Q1746-01D	FD049275.D	10 Apr 2025 18:31	YP/AJ	Ok
11	Q1746-01MS	FD049276.D	10 Apr 2025 19:07	YP/AJ	Ok
12	Q1746-01MSD	FD049277.D	10 Apr 2025 19:45	YP/AJ	Ok
13	Q1746-03	FD049278.D	10 Apr 2025 20:21	YP/AJ	Ok
14	I.BLK	FD049279.D	10 Apr 2025 21:00	YP/AJ	Ok
15	20 PPM AROMATIC HC STD	FD049280.D	10 Apr 2025 21:36	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM		
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM		
SubDirectory	FC040925AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068513.D	08 Apr 2025 13:05		YP/AJ	Ok
2	I.BLK	I.BLK	FC068514.D	08 Apr 2025 13:42		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068515.D	08 Apr 2025 14:19		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068516.D	08 Apr 2025 14:56		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068517.D	08 Apr 2025 15:34		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068518.D	08 Apr 2025 16:12		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068519.D	08 Apr 2025 16:48		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068520.D	08 Apr 2025 17:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068521.D	08 Apr 2025 18:41		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068522.D	08 Apr 2025 19:18		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068544.D	10 Apr 2025 06:44		YP/AJ	Ok
2	I.BLK	I.BLK	FC068545.D	10 Apr 2025 07:20		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068546.D	10 Apr 2025 07:56		YP/AJ	Ok
4	Q1746-05DL	B-158-GW01DL	FC068547.D	10 Apr 2025 08:48		YP/AJ	Ok,M
5	I.BLK	I.BLK	FC068548.D	10 Apr 2025 10:02		YP/AJ	Ok
6	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068549.D	10 Apr 2025 11:16		YP/AJ	Ok
7	PB167545BL	PB167545BL	FC068550.D	10 Apr 2025 13:35		YP/AJ	Ok
8	PB167545BS	PB167545BS	FC068551.D	10 Apr 2025 14:10		YP/AJ	Ok
9	PB167545BSD	PB167545BSD	FC068552.D	10 Apr 2025 14:48		YP/AJ	Ok
10	Q1760-05	TP-15	FC068553.D	10 Apr 2025 15:25	need 5x dilution	YP/AJ	Dilution
11	Q1760-05D	Q1760-05D	FC068554.D	10 Apr 2025 16:01		YP/AJ	Ok
12	Q1760-05MS	TP-15MS	FC068555.D	10 Apr 2025 16:38	FC068553.D	YP/AJ	Ok,M
13	Q1760-05MSD	TP-15MSD	FC068556.D	10 Apr 2025 17:15	FC068553.D!FC068555.D	YP/AJ	Ok,M
14	Q1760-06	TP-15-EPH	FC068557.D	10 Apr 2025 17:53		YP/AJ	Ok
15	I.BLK	I.BLK	FC068558.D	10 Apr 2025 19:07		YP/AJ	Ok
16	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068559.D	10 Apr 2025 19:45		YP/AJ	Ok
17	PB167513BL	PB167513BL	FC068560.D	10 Apr 2025 21:36		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC041125AL

Review By	yogesh	Review On	4/10/2025 9:24:51 AM		
Supervise By	mohammad	Supervise On	4/14/2025 12:39:51 AM		
SubDirectory	FC041125AL	HP Acquire Method		HP Processing Method	FC040925AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	PB167513BS	PB167513BS	FC068561.D	10 Apr 2025 22:14	naphthalene break down - 0.189, 2-methylnephthalene break down - 0.408	YP/AJ	Ok
19	PB167513BSD	PB167513BSD	FC068562.D	10 Apr 2025 22:51	naphthalene break down - 0.283, 2-methylnephthalene break down - 0.335	YP/AJ	Ok
20	Q1744-01	B-158-SB01	FC068563.D	10 Apr 2025 23:28		YP/AJ	Ok
21	Q1744-03	B-158-SB02	FC068564.D	11 Apr 2025 00:05		YP/AJ	Ok
22	Q1746-01	B-149-SB01	FC068565.D	11 Apr 2025 00:41		YP/AJ	Ok
23	Q1746-01D	Q1746-01D	FC068566.D	11 Apr 2025 01:18		YP/AJ	Ok
24	Q1746-01MS	B-149-SB01MS	FC068567.D	11 Apr 2025 01:55	FC068565.D	YP/AJ	Ok
25	Q1746-01MSD	B-149-SB01MSD	FC068568.D	11 Apr 2025 02:32	FC068565.D!FC068567.D	YP/AJ	Ok
26	Q1746-03	B-149-SB02	FC068569.D	11 Apr 2025 03:09		YP/AJ	Ok
27	I.BLK	I.BLK	FC068570.D	11 Apr 2025 03:46		YP/AJ	Ok
28	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068571.D	11 Apr 2025 04:22		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD040725AR

Review By	yogesh	Review On	4/7/2025 3:22:24 PM		
Supervise By	mohammad	Supervise On	4/9/2025 2:58:56 AM		
SubDirectory	FD040725AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049230.D	07 Apr 2025 15:00		YP/AJ	Ok
2	I.BLK	I.BLK	FD049231.D	07 Apr 2025 15:38		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049232.D	07 Apr 2025 16:15		YP/AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049233.D	07 Apr 2025 16:52		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049234.D	07 Apr 2025 17:30		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049235.D	07 Apr 2025 18:08		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049236.D	07 Apr 2025 18:45		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049237.D	07 Apr 2025 19:23		YP/AJ	Ok
9	I.BLK	I.BLK	FD049238.D	07 Apr 2025 20:37		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049239.D	07 Apr 2025 21:15		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD041025AR

Review By	yogesh	Review On	4/10/2025 1:50:11 PM		
Supervise By	mohammad	Supervise On	4/14/2025 12:40:36 AM		
SubDirectory	FD041025AR	HP Acquire Method		HP Processing Method	FD040725AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049266.D	10 Apr 2025 06:44		YP/AJ	Ok
2	I.BLK	I.BLK	FD049267.D	10 Apr 2025 13:35		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049268.D	10 Apr 2025 14:10		YP/AJ	Ok
4	PB167513BL	PB167513BL	FD049269.D	10 Apr 2025 14:48		YP/AJ	Ok
5	PB167513BS	PB167513BS	FD049270.D	10 Apr 2025 15:25	naphthalene break down - 0.189, 2-methylnephthalene break down - 0.408	YP/AJ	Ok
6	PB167513BSD	PB167513BSD	FD049271.D	10 Apr 2025 16:01	naphthalene break down - 0.283, 2-methylnephthalene break down - 0.335	YP/AJ	Ok
7	Q1744-01	B-158-SB01	FD049272.D	10 Apr 2025 16:38		YP/AJ	Ok
8	Q1744-03	B-158-SB02	FD049273.D	10 Apr 2025 17:15		YP/AJ	Ok
9	Q1746-01	B-149-SB01	FD049274.D	10 Apr 2025 17:53		YP/AJ	Ok
10	Q1746-01D	Q1746-01D	FD049275.D	10 Apr 2025 18:31		YP/AJ	Ok
11	Q1746-01MS	B-149-SB01MS	FD049276.D	10 Apr 2025 19:07	FD049274.D	YP/AJ	Ok
12	Q1746-01MSD	B-149-SB01MSD	FD049277.D	10 Apr 2025 19:45	FD049274.D!FD049276.D	YP/AJ	Ok
13	Q1746-03	B-149-SB02	FD049278.D	10 Apr 2025 20:21		YP/AJ	Ok
14	I.BLK	I.BLK	FD049279.D	10 Apr 2025 21:00		YP/AJ	Ok
15	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049280.D	10 Apr 2025 21:36		YP/AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167513

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/08/2025
Matrix :	Solid			**Extraction Start Time :**	10:10
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	04/08/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:25
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	PP24207
Surrogate	1.0ML	100 PPM	PP24432
Fractionation Surrogate	1.0ML	100 PPM	PP24403
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	EP2591
Baked Na2SO4	N/A	EP2599
Sand	N/A	E2865
Hexane	N/A	E3916
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210473.

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
04/08/25	RP (Ext Lab)	Y-P-Pest IP SB
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167513

Analytical Method: MNJDEP-EPH-7

Concentration Date: 04/08/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167513BL	PB167513BL	EPH	30.02	N/A	ritesh	Evelyn	2			U6-1
PB167513BS	PB167513BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB167513BSD	PB167513BSD	EPH	30.01	N/A	ritesh	Evelyn	2			3
Q1744-01	B-158-SB01	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1744-03	B-158-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
Q1746-01	B-149-SB01	EPH	30.02	N/A	ritesh	Evelyn	2	E		6
Q1746-01DUP	B-149-SB01DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		U3-1
Q1746-01MS	B-149-SB01MS	EPH	30.03	N/A	ritesh	Evelyn	2	E		2
Q1746-01MSD	B-149-SB01MSD	EPH	30.06	N/A	ritesh	Evelyn	2	E		3
Q1746-03	B-149-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	F		4

* **Extracts relinquished on the same date as received.**

4/8/25

167713
EDA 10:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1743 **WorkList ID :** 188791 **Department :** Extraction **Date :** 04-08-2025 08:13:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1740-01	TP-20	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	04/04/2025	NJEPH
Q1740-02	TP-20-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	04/04/2025	NJEPH
Q1742-01	TR-06-040725	Solid	EPH_NF	Cool 4 deg C	PSEG05		04/04/2025	NJEPH
Q1742-02	TR-06-040725-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05		04/04/2025	NJEPH
Q1743-01	TP-16	Solid	EPH_NF	Cool 4 deg C	PSEG03	L33	04/07/2025	NJEPH
Q1743-02	TP-16-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L33	04/07/2025	NJEPH
Q1744-01	B-158-SB01	Solid	EPH	Cool 4 deg C	PORT06	L41	04/05/2025	NJEPH
Q1744-03	B-158-SB02	Solid	EPH	Cool 4 deg C	PORT06	L41	04/05/2025	NJEPH
Q1745-01	IB-6A-WC	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1745-02	IB-6A-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1745-09	IB-6.5-WC	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1745-10	IB-6.5-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/07/2025	NJEPH
Q1746-01	B-149-SB01	Solid	EPH	Cool 4 deg C	PORT06	L41	04/05/2025	NJEPH
Q1746-03	B-149-SB02	Solid	EPH	Cool 4 deg C	PORT06	L41	04/06/2025	NJEPH
Q1747-01	ARS20-0008	Solid	EPH_NF	Cool 4 deg C	PSEG03	I41	04/07/2025	NJEPH
Q1747-02	ARS20-0008-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	I41	04/07/2025	NJEPH

Date/Time 04/08/25 10:05
Raw Sample Received by: RJ (Sept 04)
Raw Sample Relinquished by:

Date/Time 04/08/25 10:25
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Sept 04)

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LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			PCB	8082A		04/08/25	04/08/25	
			TPH GC	8015D		04/08/25	04/08/25	
			EPH	NJEPH		04/08/25	04/10/25	
			EPH	NJEPH		04/08/25	04/11/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP Herbicide	8151A		04/09/25	04/10/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1744 **Order ID:** Q1744

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-158-SB01								
Q1744-01	B-158-SB01	SOIL	Aluminum	4480		2.64	5.47	mg/Kg
Q1744-01	B-158-SB01	SOIL	Arsenic	1.49		0.32	1.09	mg/Kg
Q1744-01	B-158-SB01	SOIL	Barium	31.4		0.70	5.47	mg/Kg
Q1744-01	B-158-SB01	SOIL	Beryllium	0.33		0.013	0.33	mg/Kg
Q1744-01	B-158-SB01	SOIL	Calcium	1020		3.07	109	mg/Kg
Q1744-01	B-158-SB01	SOIL	Chromium	8.24		0.059	0.55	mg/Kg
Q1744-01	B-158-SB01	SOIL	Cobalt	3.89		0.063	1.64	mg/Kg
Q1744-01	B-158-SB01	SOIL	Copper	12.3		0.52	1.09	mg/Kg
Q1744-01	B-158-SB01	SOIL	Iron	9420		2.94	5.47	mg/Kg
Q1744-01	B-158-SB01	SOIL	Lead	14.2		0.16	0.66	mg/Kg
Q1744-01	B-158-SB01	SOIL	Magnesium	1190		3.75	109	mg/Kg
Q1744-01	B-158-SB01	SOIL	Manganese	253		0.078	1.09	mg/Kg
Q1744-01	B-158-SB01	SOIL	Mercury	0.020		0.0080	0.014	mg/Kg
Q1744-01	B-158-SB01	SOIL	Nickel	7.46		0.099	2.19	mg/Kg
Q1744-01	B-158-SB01	SOIL	Potassium	458		31.4	109	mg/Kg
Q1744-01	B-158-SB01	SOIL	Silver	0.32	J	0.057	0.55	mg/Kg
Q1744-01	B-158-SB01	SOIL	Sodium	71.3	J	39.5	109	mg/Kg
Q1744-01	B-158-SB01	SOIL	Vanadium	11.4		0.30	2.19	mg/Kg
Q1744-01	B-158-SB01	SOIL	Zinc	19.4		0.12	2.19	mg/Kg
Client ID : B-158-SB02								
Q1744-03	B-158-SB02	SOIL	Aluminum	10900		4.10	8.50	mg/Kg
Q1744-03	B-158-SB02	SOIL	Arsenic	8.96		0.49	1.70	mg/Kg
Q1744-03	B-158-SB02	SOIL	Barium	29.6		1.09	8.50	mg/Kg
Q1744-03	B-158-SB02	SOIL	Beryllium	0.46	J	0.020	0.51	mg/Kg
Q1744-03	B-158-SB02	SOIL	Calcium	1440		4.76	170	mg/Kg
Q1744-03	B-158-SB02	SOIL	Chromium	25.6		0.092	0.85	mg/Kg
Q1744-03	B-158-SB02	SOIL	Cobalt	5.09		0.099	2.55	mg/Kg
Q1744-03	B-158-SB02	SOIL	Copper	16.8		0.80	1.70	mg/Kg
Q1744-03	B-158-SB02	SOIL	Iron	20800		4.57	8.50	mg/Kg
Q1744-03	B-158-SB02	SOIL	Lead	291		0.26	1.02	mg/Kg
Q1744-03	B-158-SB02	SOIL	Magnesium	2870		5.83	170	mg/Kg
Q1744-03	B-158-SB02	SOIL	Manganese	123		0.12	1.70	mg/Kg
Q1744-03	B-158-SB02	SOIL	Mercury	0.11		0.012	0.022	mg/Kg
Q1744-03	B-158-SB02	SOIL	Nickel	14.4		0.15	3.40	mg/Kg
Q1744-03	B-158-SB02	SOIL	Potassium	1600		48.8	170	mg/Kg
Q1744-03	B-158-SB02	SOIL	Silver	0.71	J	0.088	0.85	mg/Kg
Q1744-03	B-158-SB02	SOIL	Sodium	475		61.4	170	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1744 **Order ID:** Q1744

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1744-03	B-158-SB02	SOIL	Vanadium	31.8		0.46	3.40	mg/Kg
Q1744-03	B-158-SB02	SOIL	Zinc	47.4		0.19	3.40	mg/Kg

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4480		1	2.64	5.47	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-36-0	Antimony	0.16	U	1	0.16	2.74	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-38-2	Arsenic	1.49		1	0.32	1.09	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-39-3	Barium	31.4		1	0.70	5.47	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-41-7	Beryllium	0.33	N	1	0.013	0.33	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-43-9	Cadmium	0.018	U	1	0.018	0.33	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-70-2	Calcium	1020		1	3.07	109	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-47-3	Chromium	8.24		1	0.059	0.55	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-48-4	Cobalt	3.89		1	0.063	1.64	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-50-8	Copper	12.3		1	0.52	1.09	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7439-89-6	Iron	9420		1	2.94	5.47	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7439-92-1	Lead	14.2		1	0.16	0.66	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7439-95-4	Magnesium	1190		1	3.75	109	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7439-96-5	Manganese	253		1	0.078	1.09	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7439-97-6	Mercury	0.020	N*	1	0.0080	0.014	mg/Kg	04/08/25 16:50	04/09/25 12:08	SW7471B	
7440-02-0	Nickel	7.46		1	0.099	2.19	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-09-7	Potassium	458		1	31.4	109	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7782-49-2	Selenium	0.36	U	1	0.36	1.09	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-22-4	Silver	0.32	J	1	0.057	0.55	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-23-5	Sodium	71.3	J	1	39.5	109	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-28-0	Thallium	0.48	U	1	0.48	2.19	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-62-2	Vanadium	11.4		1	0.30	2.19	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050
7440-66-6	Zinc	19.4		1	0.12	2.19	mg/Kg	04/07/25 14:05	04/10/25 14:15	SW6010	SW3050

Color Before:	Colorless	Clarity Before:		Texture:	Fine
Color After:	Colorless	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	56

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10900		1	4.10	8.50	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-36-0	Antimony	0.26	U	1	0.26	4.25	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-38-2	Arsenic	8.96		1	0.49	1.70	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-39-3	Barium	29.6		1	1.09	8.50	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-41-7	Beryllium	0.46	JN	1	0.020	0.51	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-43-9	Cadmium	0.027	U	1	0.027	0.51	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-70-2	Calcium	1440		1	4.76	170	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-47-3	Chromium	25.6		1	0.092	0.85	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-48-4	Cobalt	5.09		1	0.099	2.55	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-50-8	Copper	16.8		1	0.80	1.70	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7439-89-6	Iron	20800		1	4.57	8.50	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7439-92-1	Lead	291		1	0.26	1.02	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7439-95-4	Magnesium	2870		1	5.83	170	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7439-96-5	Manganese	123		1	0.12	1.70	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7439-97-6	Mercury	0.11	N*	1	0.012	0.022	mg/Kg	04/08/25 16:50	04/09/25 12:10	SW7471B	
7440-02-0	Nickel	14.4		1	0.15	3.40	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-09-7	Potassium	1600		1	48.8	170	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7782-49-2	Selenium	0.56	U	1	0.56	1.70	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-22-4	Silver	0.71	J	1	0.088	0.85	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-23-5	Sodium	475		1	61.4	170	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-28-0	Thallium	0.75	U	1	0.75	3.40	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-62-2	Vanadium	31.8		1	0.46	3.40	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050
7440-66-6	Zinc	47.4		1	0.19	3.40	mg/Kg	04/07/25 14:05	04/10/25 14:19	SW6010	SW3050

Color Before:	Colorless	Clarity Before:		Texture:	Fine
Color After:	Colorless	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB82	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	11:36	LB135354

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Metals

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Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB49	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	11:45	LB135354
CCB50	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	12:20	LB135354
CCB51	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	12:48	LB135354
CCB52	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	14:04	LB135354
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/09/2025	14:21	LB135354

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	10:29	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	10:29	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	10:29	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	10:29	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	10:29	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	10:29	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	10:29	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	10:29	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	11:21	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	11:21	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	11:21	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	11:21	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	11:21	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	11:21	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	11:21	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	11:21	LB135373
CCB02	Aluminum	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	12:12	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	12:12	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	12:12	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	12:12	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	12:12	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	12:12	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	12:12	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	12:12	LB135373
CCB03	Aluminum	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	13:04	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:04	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:04	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	13:04	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:04	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	13:04	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	13:04	LB135373
CCB04	Aluminum	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	13:55	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:55	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:55	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	13:55	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	13:55	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:55	LB135373

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	13:55	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	13:55	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	13:55	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	13:55	LB135373
CCB05	Aluminum	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	14:49	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	14:49	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	14:49	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	14:49	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	14:49	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	14:49	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	14:49	LB135373
CCB06	Aluminum	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	15:48	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	15:48	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	15:48	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	15:48	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	15:48	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	15:48	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	15:48	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	15:48	LB135373
CCB07	Aluminum	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	17:00	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	17:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	17:00	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	17:00	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	17:00	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	17:00	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	17:00	LB135373
CCB08	Aluminum	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	18:00	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	18:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:00	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	18:00	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:00	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	18:00	LB135373
	Thallium	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	18:00	LB135373
CCB09	Aluminum	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Antimony	50.0	+/-50.0	U	50.0	P	04/10/2025	18:23	LB135373
	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Beryllium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:23	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:23	LB135373
	Calcium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373
	Cobalt	30.0	+/-30.0	U	30.0	P	04/10/2025	18:23	LB135373
	Copper	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Iron	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:23	LB135373
	Magnesium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373
	Manganese	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Nickel	40.0	+/-40.0	U	40.0	P	04/10/2025	18:23	LB135373
	Potassium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373
	Sodium	2000	+/-2000	U	2000	P	04/10/2025	18:23	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	18:23	LB135373
	Vanadium	40.0	+/-40.0	U	40.0	P	04/10/2025	18:23	LB135373
	Zinc	40.0	+/-40.0	U	40.0	P	04/10/2025	18:23	LB135373

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167532BL		**SOLID**		**Batch Number:**	**PB167532**		**Prep Date:**	**04/08/2025**	
	Mercury	0.012	<0.012	U	0.012	CV	04/09/2025	11:58	LB135354

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB167490BL		**SOLID**		**Batch Number:**	**PB167490**		**Prep Date:**	**04/07/2025**	
	Aluminum	4.12	<4.12	U	4.12	P	04/10/2025	16:26	LB135373
	Antimony	2.06	<2.06	U	2.06	P	04/10/2025	16:26	LB135373
	Arsenic	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Barium	4.12	<4.12	U	4.12	P	04/10/2025	16:26	LB135373
	Beryllium	0.25	<0.25	U	0.25	P	04/10/2025	16:26	LB135373
	Cadmium	0.25	<0.25	U	0.25	P	04/10/2025	16:26	LB135373
	Calcium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Chromium	0.41	<0.41	U	0.41	P	04/10/2025	16:26	LB135373
	Cobalt	1.23	<1.23	U	1.23	P	04/10/2025	16:26	LB135373
	Copper	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Iron	4.12	<4.12	U	4.12	P	04/10/2025	16:26	LB135373
	Lead	0.49	<0.49	U	0.49	P	04/10/2025	16:26	LB135373
	Magnesium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Manganese	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Nickel	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373
	Potassium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Selenium	0.82	<0.82	U	0.82	P	04/10/2025	16:26	LB135373
	Silver	0.41	<0.41	U	0.41	P	04/10/2025	16:26	LB135373
	Sodium	82.3	<82.3	U	82.3	P	04/10/2025	16:26	LB135373
	Thallium	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373
	Vanadium	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373
	Zinc	1.65	<1.65	U	1.65	P	04/10/2025	16:26	LB135373

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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
ICV82	Mercury	3.62	4.0	90	90 - 110	CV	04/09/2025	11:34	LB135354

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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
CCV49	Mercury	5.13	5.0	103	90 - 110	CV	04/09/2025	11:43	LB135354
CCV50	Mercury	4.80	5.0	96	90 - 110	CV	04/09/2025	12:17	LB135354
CCV51	Mercury	5.07	5.0	101	90 - 110	CV	04/09/2025	12:46	LB135354
CCV52	Mercury	4.60	5.0	92	90 - 110	CV	04/09/2025	13:58	LB135354
CCV53	Mercury	4.96	5.0	99	90 - 110	CV	04/09/2025	14:18	LB135354

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	2380	2500	95	90 - 110	P	04/10/2025	10:09	LB135373
	Antimony	1000	1000	100	90 - 110	P	04/10/2025	10:09	LB135373
	Arsenic	985	1000	98	90 - 110	P	04/10/2025	10:09	LB135373
	Barium	534	520	103	90 - 110	P	04/10/2025	10:09	LB135373
	Beryllium	469	510	92	90 - 110	P	04/10/2025	10:09	LB135373
	Cadmium	483	510	95	90 - 110	P	04/10/2025	10:09	LB135373
	Calcium	9300	10000	93	90 - 110	P	04/10/2025	10:09	LB135373
	Chromium	505	520	97	90 - 110	P	04/10/2025	10:09	LB135373
	Cobalt	488	520	94	90 - 110	P	04/10/2025	10:09	LB135373
	Copper	517	510	102	90 - 110	P	04/10/2025	10:09	LB135373
	Iron	10300	10000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Lead	951	1000	95	90 - 110	P	04/10/2025	10:09	LB135373
	Magnesium	5420	6000	90	90 - 110	P	04/10/2025	10:09	LB135373
	Manganese	468	520	90	90 - 110	P	04/10/2025	10:09	LB135373
	Nickel	497	530	94	90 - 110	P	04/10/2025	10:09	LB135373
	Potassium	10200	9900	103	90 - 110	P	04/10/2025	10:09	LB135373
	Selenium	1030	1000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Silver	245	250	98	90 - 110	P	04/10/2025	10:09	LB135373
	Sodium	10300	10000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Thallium	1020	1000	102	90 - 110	P	04/10/2025	10:09	LB135373
	Vanadium	460	500	92	90 - 110	P	04/10/2025	10:09	LB135373
	Zinc	996	1000	100	90 - 110	P	04/10/2025	10:09	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	93.1	100	93	80 - 120	P	04/10/2025	10:25	LB135373
	Antimony	51.6	50.0	103	80 - 120	P	04/10/2025	10:25	LB135373
	Arsenic	18.5	20.0	92	80 - 120	P	04/10/2025	10:25	LB135373
	Barium	85.5	100	86	80 - 120	P	04/10/2025	10:25	LB135373
	Beryllium	5.39	6.0	90	80 - 120	P	04/10/2025	10:25	LB135373
	Cadmium	5.62	6.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Calcium	1880	2000	94	80 - 120	P	04/10/2025	10:25	LB135373
	Chromium	9.56	10.0	96	80 - 120	P	04/10/2025	10:25	LB135373
	Cobalt	28.1	30.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Copper	21.9	20.0	110	80 - 120	P	04/10/2025	10:25	LB135373
	Iron	89.9	100	90	80 - 120	P	04/10/2025	10:25	LB135373
	Lead	9.94	12.0	83	80 - 120	P	04/10/2025	10:25	LB135373
	Magnesium	1990	2000	99	80 - 120	P	04/10/2025	10:25	LB135373
	Manganese	20.8	20.0	104	80 - 120	P	04/10/2025	10:25	LB135373
	Nickel	37.7	40.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Potassium	1810	2000	91	80 - 120	P	04/10/2025	10:25	LB135373
	Selenium	18.9	20.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Silver	10.5	10.0	104	80 - 120	P	04/10/2025	10:25	LB135373
	Sodium	1770	2000	88	80 - 120	P	04/10/2025	10:25	LB135373
	Thallium	38.9	40.0	97	80 - 120	P	04/10/2025	10:25	LB135373
	Vanadium	37.1	40.0	93	80 - 120	P	04/10/2025	10:25	LB135373
	Zinc	39.6	40.0	99	80 - 120	P	04/10/2025	10:25	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	9820	10000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Antimony	4910	5000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Arsenic	4750	5000	95	90 - 110	P	04/10/2025	11:00	LB135373
	Barium	9770	10000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Beryllium	246	250	98	90 - 110	P	04/10/2025	11:00	LB135373
	Cadmium	2340	2500	94	90 - 110	P	04/10/2025	11:00	LB135373
	Calcium	24000	25000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	11:00	LB135373
	Cobalt	2450	2500	98	90 - 110	P	04/10/2025	11:00	LB135373
	Copper	1260	1250	101	90 - 110	P	04/10/2025	11:00	LB135373
	Iron	5250	5000	105	90 - 110	P	04/10/2025	11:00	LB135373
	Lead	5240	5000	105	90 - 110	P	04/10/2025	11:00	LB135373
	Magnesium	24000	25000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Manganese	2350	2500	94	90 - 110	P	04/10/2025	11:00	LB135373
	Nickel	2460	2500	98	90 - 110	P	04/10/2025	11:00	LB135373
	Potassium	26900	25000	108	90 - 110	P	04/10/2025	11:00	LB135373
	Selenium	4820	5000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Silver	1250	1250	100	90 - 110	P	04/10/2025	11:00	LB135373
	Sodium	22500	25000	90	90 - 110	P	04/10/2025	11:00	LB135373
	Thallium	4770	5000	95	90 - 110	P	04/10/2025	11:00	LB135373
	Vanadium	2420	2500	97	90 - 110	P	04/10/2025	11:00	LB135373
	Zinc	2540	2500	102	90 - 110	P	04/10/2025	11:00	LB135373
CCV02	Aluminum	9830	10000	98	90 - 110	P	04/10/2025	12:08	LB135373
	Antimony	4970	5000	99	90 - 110	P	04/10/2025	12:08	LB135373
	Arsenic	4800	5000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Barium	9680	10000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Beryllium	249	250	100	90 - 110	P	04/10/2025	12:08	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	12:08	LB135373
	Calcium	24000	25000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:08	LB135373
	Cobalt	2470	2500	99	90 - 110	P	04/10/2025	12:08	LB135373
	Copper	1270	1250	102	90 - 110	P	04/10/2025	12:08	LB135373
	Iron	5230	5000	104	90 - 110	P	04/10/2025	12:08	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	12:08	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	24100	25000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Manganese	2340	2500	94	90 - 110	P	04/10/2025	12:08	LB135373
	Nickel	2480	2500	99	90 - 110	P	04/10/2025	12:08	LB135373
	Potassium	26800	25000	107	90 - 110	P	04/10/2025	12:08	LB135373
	Selenium	4860	5000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	12:08	LB135373
	Sodium	27100	25000	108	90 - 110	P	04/10/2025	12:08	LB135373
	Thallium	4860	5000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Vanadium	2430	2500	97	90 - 110	P	04/10/2025	12:08	LB135373
	Zinc	2530	2500	101	90 - 110	P	04/10/2025	12:08	LB135373
CCV03	Aluminum	9940	10000	99	90 - 110	P	04/10/2025	12:59	LB135373
	Antimony	5070	5000	101	90 - 110	P	04/10/2025	12:59	LB135373
	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	12:59	LB135373
	Barium	10100	10000	101	90 - 110	P	04/10/2025	12:59	LB135373
	Beryllium	235	250	94	90 - 110	P	04/10/2025	12:59	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	12:59	LB135373
	Calcium	24200	25000	97	90 - 110	P	04/10/2025	12:59	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:59	LB135373
	Cobalt	2480	2500	99	90 - 110	P	04/10/2025	12:59	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	12:59	LB135373
	Iron	5230	5000	105	90 - 110	P	04/10/2025	12:59	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	12:59	LB135373
	Magnesium	23900	25000	96	90 - 110	P	04/10/2025	12:59	LB135373
	Manganese	2370	2500	95	90 - 110	P	04/10/2025	12:59	LB135373
	Nickel	2490	2500	100	90 - 110	P	04/10/2025	12:59	LB135373
	Potassium	23300	25000	93	90 - 110	P	04/10/2025	12:59	LB135373
	Selenium	4990	5000	100	90 - 110	P	04/10/2025	12:59	LB135373
	Silver	1270	1250	101	90 - 110	P	04/10/2025	12:59	LB135373
	Sodium	24300	25000	97	90 - 110	P	04/10/2025	12:59	LB135373
	Thallium	4840	5000	97	90 - 110	P	04/10/2025	12:59	LB135373
	Vanadium	2470	2500	99	90 - 110	P	04/10/2025	12:59	LB135373
	Zinc	2560	2500	102	90 - 110	P	04/10/2025	12:59	LB135373
CCV04	Aluminum	9990	10000	100	90 - 110	P	04/10/2025	13:51	LB135373
	Antimony	5040	5000	101	90 - 110	P	04/10/2025	13:51	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	4880	5000	98	90 - 110	P	04/10/2025	13:51	LB135373
	Barium	9600	10000	96	90 - 110	P	04/10/2025	13:51	LB135373
	Beryllium	239	250	96	90 - 110	P	04/10/2025	13:51	LB135373
	Cadmium	2380	2500	95	90 - 110	P	04/10/2025	13:51	LB135373
	Calcium	24200	25000	97	90 - 110	P	04/10/2025	13:51	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	13:51	LB135373
	Cobalt	2490	2500	100	90 - 110	P	04/10/2025	13:51	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	13:51	LB135373
	Iron	4980	5000	100	90 - 110	P	04/10/2025	13:51	LB135373
	Lead	4760	5000	95	90 - 110	P	04/10/2025	13:51	LB135373
	Magnesium	24400	25000	98	90 - 110	P	04/10/2025	13:51	LB135373
	Manganese	2380	2500	95	90 - 110	P	04/10/2025	13:51	LB135373
	Nickel	2500	2500	100	90 - 110	P	04/10/2025	13:51	LB135373
	Potassium	25400	25000	101	90 - 110	P	04/10/2025	13:51	LB135373
	Selenium	4960	5000	99	90 - 110	P	04/10/2025	13:51	LB135373
	Silver	1270	1250	102	90 - 110	P	04/10/2025	13:51	LB135373
	Sodium	26400	25000	106	90 - 110	P	04/10/2025	13:51	LB135373
	Thallium	4980	5000	100	90 - 110	P	04/10/2025	13:51	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	13:51	LB135373
	Zinc	2570	2500	103	90 - 110	P	04/10/2025	13:51	LB135373
CCV05	Aluminum	9910	10000	99	90 - 110	P	04/10/2025	14:44	LB135373
	Antimony	5000	5000	100	90 - 110	P	04/10/2025	14:44	LB135373
	Arsenic	4820	5000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	14:44	LB135373
	Beryllium	230	250	92	90 - 110	P	04/10/2025	14:44	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	14:44	LB135373
	Calcium	24000	25000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	14:44	LB135373
	Cobalt	2470	2500	99	90 - 110	P	04/10/2025	14:44	LB135373
	Copper	1280	1250	103	90 - 110	P	04/10/2025	14:44	LB135373
	Iron	5160	5000	103	90 - 110	P	04/10/2025	14:44	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	14:44	LB135373
	Magnesium	24100	25000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Manganese	2360	2500	94	90 - 110	P	04/10/2025	14:44	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	2480	2500	99	90 - 110	P	04/10/2025	14:44	LB135373
	Potassium	26100	25000	105	90 - 110	P	04/10/2025	14:44	LB135373
	Selenium	4910	5000	98	90 - 110	P	04/10/2025	14:44	LB135373
	Silver	1270	1250	101	90 - 110	P	04/10/2025	14:44	LB135373
	Sodium	26900	25000	108	90 - 110	P	04/10/2025	14:44	LB135373
	Thallium	4830	5000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Vanadium	2440	2500	98	90 - 110	P	04/10/2025	14:44	LB135373
	Zinc	2550	2500	102	90 - 110	P	04/10/2025	14:44	LB135373
CCV06	Aluminum	9970	10000	100	90 - 110	P	04/10/2025	15:44	LB135373
	Antimony	4960	5000	99	90 - 110	P	04/10/2025	15:44	LB135373
	Arsenic	4780	5000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Barium	9640	10000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Beryllium	228	250	91	90 - 110	P	04/10/2025	15:44	LB135373
	Cadmium	2340	2500	93	90 - 110	P	04/10/2025	15:44	LB135373
	Calcium	24100	25000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	15:44	LB135373
	Cobalt	2450	2500	98	90 - 110	P	04/10/2025	15:44	LB135373
	Copper	1270	1250	102	90 - 110	P	04/10/2025	15:44	LB135373
	Iron	5060	5000	101	90 - 110	P	04/10/2025	15:44	LB135373
	Lead	4690	5000	94	90 - 110	P	04/10/2025	15:44	LB135373
	Magnesium	24200	25000	97	90 - 110	P	04/10/2025	15:44	LB135373
	Manganese	2380	2500	95	90 - 110	P	04/10/2025	15:44	LB135373
	Nickel	2470	2500	99	90 - 110	P	04/10/2025	15:44	LB135373
	Potassium	25700	25000	103	90 - 110	P	04/10/2025	15:44	LB135373
	Selenium	4850	5000	97	90 - 110	P	04/10/2025	15:44	LB135373
	Silver	1260	1250	100	90 - 110	P	04/10/2025	15:44	LB135373
	Sodium	26500	25000	106	90 - 110	P	04/10/2025	15:44	LB135373
	Thallium	4770	5000	95	90 - 110	P	04/10/2025	15:44	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	15:44	LB135373
	Zinc	2520	2500	101	90 - 110	P	04/10/2025	15:44	LB135373
CCV07	Aluminum	10100	10000	101	90 - 110	P	04/10/2025	16:56	LB135373
	Antimony	5100	5000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Arsenic	4920	5000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Barium	9570	10000	96	90 - 110	P	04/10/2025	16:56	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	241	250	96	90 - 110	P	04/10/2025	16:56	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	16:56	LB135373
	Calcium	24200	25000	97	90 - 110	P	04/10/2025	16:56	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Cobalt	2460	2500	98	90 - 110	P	04/10/2025	16:56	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	16:56	LB135373
	Iron	4820	5000	96	90 - 110	P	04/10/2025	16:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	16:56	LB135373
	Magnesium	24500	25000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Manganese	2380	2500	95	90 - 110	P	04/10/2025	16:56	LB135373
	Nickel	2500	2500	100	90 - 110	P	04/10/2025	16:56	LB135373
	Potassium	24200	25000	97	90 - 110	P	04/10/2025	16:56	LB135373
	Selenium	5020	5000	100	90 - 110	P	04/10/2025	16:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	16:56	LB135373
	Sodium	25500	25000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Thallium	4910	5000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	16:56	LB135373
	Zinc	2560	2500	102	90 - 110	P	04/10/2025	16:56	LB135373
CCV08	Aluminum	10100	10000	101	90 - 110	P	04/10/2025	17:56	LB135373
	Antimony	5060	5000	101	90 - 110	P	04/10/2025	17:56	LB135373
	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	17:56	LB135373
	Barium	9470	10000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Beryllium	233	250	93	90 - 110	P	04/10/2025	17:56	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	17:56	LB135373
	Calcium	23900	25000	96	90 - 110	P	04/10/2025	17:56	LB135373
	Chromium	1030	1000	103	90 - 110	P	04/10/2025	17:56	LB135373
	Cobalt	2460	2500	99	90 - 110	P	04/10/2025	17:56	LB135373
	Copper	1280	1250	103	90 - 110	P	04/10/2025	17:56	LB135373
	Iron	5030	5000	100	90 - 110	P	04/10/2025	17:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Magnesium	24300	25000	97	90 - 110	P	04/10/2025	17:56	LB135373
	Manganese	2330	2500	93	90 - 110	P	04/10/2025	17:56	LB135373
	Nickel	2500	2500	100	90 - 110	P	04/10/2025	17:56	LB135373
	Potassium	25100	25000	100	90 - 110	P	04/10/2025	17:56	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	4980	5000	100	90 - 110	P	04/10/2025	17:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	17:56	LB135373
	Sodium	26300	25000	105	90 - 110	P	04/10/2025	17:56	LB135373
	Thallium	4870	5000	97	90 - 110	P	04/10/2025	17:56	LB135373
	Vanadium	2410	2500	97	90 - 110	P	04/10/2025	17:56	LB135373
	Zinc	2550	2500	102	90 - 110	P	04/10/2025	17:56	LB135373
CCV09	Aluminum	9970	10000	100	90 - 110	P	04/10/2025	18:19	LB135373
	Antimony	5050	5000	101	90 - 110	P	04/10/2025	18:19	LB135373
	Arsenic	4850	5000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Beryllium	247	250	99	90 - 110	P	04/10/2025	18:19	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	18:19	LB135373
	Calcium	23900	25000	95	90 - 110	P	04/10/2025	18:19	LB135373
	Chromium	1000	1000	100	90 - 110	P	04/10/2025	18:19	LB135373
	Cobalt	2460	2500	99	90 - 110	P	04/10/2025	18:19	LB135373
	Copper	1290	1250	103	90 - 110	P	04/10/2025	18:19	LB135373
	Iron	5130	5000	103	90 - 110	P	04/10/2025	18:19	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	18:19	LB135373
	Magnesium	23900	25000	96	90 - 110	P	04/10/2025	18:19	LB135373
	Manganese	2350	2500	94	90 - 110	P	04/10/2025	18:19	LB135373
	Nickel	2480	2500	99	90 - 110	P	04/10/2025	18:19	LB135373
	Potassium	26400	25000	105	90 - 110	P	04/10/2025	18:19	LB135373
	Selenium	4930	5000	99	90 - 110	P	04/10/2025	18:19	LB135373
	Silver	1240	1250	99	90 - 110	P	04/10/2025	18:19	LB135373
	Sodium	27400	25000	110	90 - 110	P	04/10/2025	18:19	LB135373
	Thallium	4700	5000	94	90 - 110	P	04/10/2025	18:19	LB135373
	Vanadium	2450	2500	98	90 - 110	P	04/10/2025	18:19	LB135373
	Zinc	2500	2500	100	90 - 110	P	04/10/2025	18:19	LB135373

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	0.17	0.2	86	40 - 160	CV	04/09/2025	11:47	LB135354
CRI01	Aluminum	98.0	100	98	40 - 160	P	04/10/2025	10:33	LB135373
	Antimony	51.0	50.0	102	40 - 160	P	04/10/2025	10:33	LB135373
	Arsenic	18.9	20.0	95	40 - 160	P	04/10/2025	10:33	LB135373
	Barium	85.4	100	85	40 - 160	P	04/10/2025	10:33	LB135373
	Beryllium	5.48	6.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Cadmium	5.51	6.0	92	40 - 160	P	04/10/2025	10:33	LB135373
	Calcium	1880	2000	94	40 - 160	P	04/10/2025	10:33	LB135373
	Chromium	9.42	10.0	94	40 - 160	P	04/10/2025	10:33	LB135373
	Cobalt	28.2	30.0	94	40 - 160	P	04/10/2025	10:33	LB135373
	Copper	21.9	20.0	109	40 - 160	P	04/10/2025	10:33	LB135373
	Iron	102	100	102	40 - 160	P	04/10/2025	10:33	LB135373
	Lead	11.6	12.0	97	40 - 160	P	04/10/2025	10:33	LB135373
	Magnesium	1980	2000	99	40 - 160	P	04/10/2025	10:33	LB135373
	Manganese	15.0	20.0	75	40 - 160	P	04/10/2025	10:33	LB135373
	Nickel	38.0	40.0	95	40 - 160	P	04/10/2025	10:33	LB135373
	Potassium	1960	2000	98	40 - 160	P	04/10/2025	10:33	LB135373
	Selenium	18.1	20.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Silver	10.4	10.0	104	40 - 160	P	04/10/2025	10:33	LB135373
	Sodium	1480	2000	74	40 - 160	P	04/10/2025	10:33	LB135373
	Thallium	38.3	40.0	96	40 - 160	P	04/10/2025	10:33	LB135373
	Vanadium	36.3	40.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Zinc	39.6	40.0	99	40 - 160	P	04/10/2025	10:33	LB135373

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	243000	255000	95	216000	294000	04/10/2025	10:37	LB135373
	Antimony	-1.86			-50	50	04/10/2025	10:37	LB135373
	Arsenic	5.16			-20	20	04/10/2025	10:37	LB135373
	Barium	-3.92	6.0	65	-94	106	04/10/2025	10:37	LB135373
	Beryllium	1.14			-6	6	04/10/2025	10:37	LB135373
	Cadmium	-3.53	1.0	353	-5	7	04/10/2025	10:37	LB135373
	Calcium	227000	245000	93	208000	282000	04/10/2025	10:37	LB135373
	Chromium	55.8	52.0	107	42	62	04/10/2025	10:37	LB135373
	Cobalt	1.58			-30	30	04/10/2025	10:37	LB135373
	Copper	-4.96	2.0	248	-18	22	04/10/2025	10:37	LB135373
	Iron	107000	101000	106	85600	116500	04/10/2025	10:37	LB135373
	Lead	7.32			-12	12	04/10/2025	10:37	LB135373
	Magnesium	243000	255000	95	216000	294000	04/10/2025	10:37	LB135373
	Manganese	0.78	7.0	11	-13	27	04/10/2025	10:37	LB135373
	Nickel	2.46	2.0	123	-38	42	04/10/2025	10:37	LB135373
	Potassium	-132			0	0	04/10/2025	10:37	LB135373
	Selenium	-8.19			-20	20	04/10/2025	10:37	LB135373
	Silver	3.75			-10	10	04/10/2025	10:37	LB135373
	Sodium	-202			0	0	04/10/2025	10:37	LB135373
	Thallium	9.79			-40	40	04/10/2025	10:37	LB135373
	Vanadium	2.28			-40	40	04/10/2025	10:37	LB135373
	Zinc	2.74			-40	40	04/10/2025	10:37	LB135373
ICSAB01	Aluminum	236000	247000	96	209000	285000	04/10/2025	10:42	LB135373
	Antimony	624	618	101	525	711	04/10/2025	10:42	LB135373
	Arsenic	111	104	107	88.4	120	04/10/2025	10:42	LB135373
	Barium	459	537	86	437	637	04/10/2025	10:42	LB135373
	Beryllium	525	495	106	420	570	04/10/2025	10:42	LB135373
	Cadmium	981	972	101	826	1120	04/10/2025	10:42	LB135373
	Calcium	219000	235000	93	199000	271000	04/10/2025	10:42	LB135373
	Chromium	553	542	102	460	624	04/10/2025	10:42	LB135373
	Cobalt	498	476	105	404	548	04/10/2025	10:42	LB135373
	Copper	500	511	98	434	588	04/10/2025	10:42	LB135373
	Iron	93600	99300	94	84400	114500	04/10/2025	10:42	LB135373
	Lead	57.3	49.0	117	37	61	04/10/2025	10:42	LB135373
	Magnesium	237000	248000	96	210000	286000	04/10/2025	10:42	LB135373
	Manganese	454	507	90	430	584	04/10/2025	10:42	LB135373
	Nickel	995	954	104	810	1100	04/10/2025	10:42	LB135373
	Potassium	-183			0	0	04/10/2025	10:42	LB135373
	Selenium	36.7	46.0	80	26	66	04/10/2025	10:42	LB135373
	Silver	186	201	92	170	232	04/10/2025	10:42	LB135373
	Sodium	-267			0	0	04/10/2025	10:42	LB135373
	Thallium	103	108	95	68	148	04/10/2025	10:42	LB135373

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	460	491	94	417	565	04/10/2025	10:42	LB135373
	Zinc	1060	952	111	809	1095	04/10/2025	10:42	LB135373

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744

contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744

matrix: Solid **sample id:** Q1745-09 **client id:** IB-6.5-WCMS

Percent Solids for Sample: 71.5 **Spiked ID:** Q1745-09MS **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5740		5630		130	82		P
Antimony	mg/Kg	75 - 125	49.3		3.35	U	53.5	92		P
Arsenic	mg/Kg	75 - 125	82.2		36.0		53.5	86		P
Barium	mg/Kg	75 - 125	403		386		13.4	129		P
Beryllium	mg/Kg	75 - 125	10.8		0.54		13.4	77		P
Cadmium	mg/Kg	75 - 125	12.4		0.13	J	13.4	91		P
Calcium	mg/Kg	75 - 125	9880		9780		66.9	149		P
Chromium	mg/Kg	75 - 125	39.0		16.2		26.8	85		P
Cobalt	mg/Kg	75 - 125	18.7		6.11		13.4	94		P
Copper	mg/Kg	75 - 125	230		217		20.1	63		P
Iron	mg/Kg	75 - 125	18100		18500		200	-219		P
Lead	mg/Kg	75 - 125	740		694		66.9	69		P
Magnesium	mg/Kg	75 - 125	1140		1030		130	86		P
Manganese	mg/Kg	75 - 125	207		193		13.4	103		P
Nickel	mg/Kg	75 - 125	57.1		26.1		33.5	93		P
Potassium	mg/Kg	75 - 125	1810		1240		670	85		P
Selenium	mg/Kg	75 - 125	115		1.34	U	130	88		P
Silver	mg/Kg	75 - 125	7.33		3.03		5.0	86		P
Sodium	mg/Kg	75 - 125	1270		1130		200	73		P
Thallium	mg/Kg	75 - 125	120		0.76	J	130	92		P
Vanadium	mg/Kg	75 - 125	37.8		21.1		20.1	83		P
Zinc	mg/Kg	75 - 125	298		292		13.4	43		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744

contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744

matrix: Solid **sample id:** Q1745-09 **client id:** IB-6.5-WCMSD

Percent Solids for Sample: 71.5 **Spiked ID:** Q1745-09MSD **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5680		5630		130	40		P
Antimony	mg/Kg	75 - 125	47.3		3.35	U	52.5	90		P
Arsenic	mg/Kg	75 - 125	79.3		36.0		52.5	82		P
Barium	mg/Kg	75 - 125	425		386		13.1	297		P
Beryllium	mg/Kg	75 - 125	9.94		0.54		13.1	72	N	P
Cadmium	mg/Kg	75 - 125	11.8		0.13	J	13.1	89		P
Calcium	mg/Kg	75 - 125	9780		9780		65.7	-10		P
Chromium	mg/Kg	75 - 125	37.9		16.2		26.3	82		P
Cobalt	mg/Kg	75 - 125	18.1		6.11		13.1	91		P
Copper	mg/Kg	75 - 125	223		217		19.7	28		P
Iron	mg/Kg	75 - 125	18400		18500		200	-31		P
Lead	mg/Kg	75 - 125	725		694		65.7	47		P
Magnesium	mg/Kg	75 - 125	1120		1030		130	69		P
Manganese	mg/Kg	75 - 125	204		193		13.1	84		P
Nickel	mg/Kg	75 - 125	55.3		26.1		32.8	89		P
Potassium	mg/Kg	75 - 125	1870		1240		660	94		P
Selenium	mg/Kg	75 - 125	110		1.34	U	130	85		P
Silver	mg/Kg	75 - 125	7.24		3.03		4.9	86		P
Sodium	mg/Kg	75 - 125	1300		1130		200	84		P
Thallium	mg/Kg	75 - 125	116		0.76	J	130	89		P
Vanadium	mg/Kg	75 - 125	37.0		21.1		19.7	81		P
Zinc	mg/Kg	75 - 125	289		292		13.1	-17		P

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744

contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744

matrix: Solid **sample id:** Q1753-05 **client id:** WC-2MS

Percent Solids for Sample: 89 **Spiked ID:** Q1753-05MS **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.23		0.026		0.3	69	N	CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744

contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744

matrix: Solid **sample id:** Q1753-05 **client id:** WC-2MSD

Percent Solids for Sample: 89 **Spiked ID:** Q1753-05MSD **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.18		0.026		0.28	56	N	CV

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Solid **Level:** LOW **Client ID:** IB-6.5-WCA

Sample ID: Q1745-09 **Spiked ID:** Q1745-09A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	mg/Kg	75 - 125	10.1		0.54		13.4	71		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Solid **Level:** LOW **Client ID:** WC-2A

Sample ID: Q1753-05 **Spiked ID:** Q1753-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.26		0.026		0.30	78		CV

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Solid **Sample ID:** Q1745-09 **Client ID:** IB-6.5-WCDUP

Percent Solids for Sample: 71.5 **Duplicate ID** Q1745-09DUP **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5630		5310		6		P
Antimony	mg/Kg	20	3.35	U	3.15	U			P
Arsenic	mg/Kg	20	36.0		32.8		9		P
Barium	mg/Kg	20	386		369		5		P
Beryllium	mg/Kg	20	0.54		0.48		12		P
Cadmium	mg/Kg	20	0.13	J	0.11	J	15		P
Calcium	mg/Kg	20	9780		9280		5		P
Chromium	mg/Kg	20	16.2		15.2		6		P
Cobalt	mg/Kg	20	6.11		5.76		6		P
Copper	mg/Kg	20	217		202		7		P
Iron	mg/Kg	20	18500		17300		7		P
Lead	mg/Kg	20	694		647		7		P
Magnesium	mg/Kg	20	1030		973		6		P
Manganese	mg/Kg	20	193		184		5		P
Nickel	mg/Kg	20	26.1		24.3		7		P
Potassium	mg/Kg	20	1240		1140		8		P
Selenium	mg/Kg	20	1.34	U	1.26	U			P
Silver	mg/Kg	20	3.03		2.77		9		P
Sodium	mg/Kg	20	1130		1050		7		P
Thallium	mg/Kg	20	0.76	J	0.73	J	4		P
Vanadium	mg/Kg	20	21.1		20.0		5		P
Zinc	mg/Kg	20	292		274		6		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Solid **Sample ID:** Q1745-09MS **Client ID:** IB-6.5-WCMSD

Percent Solids for Sample: 71.5 **Duplicate ID** Q1745-09MSD **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5740		5680		1		P
Antimony	mg/Kg	20	49.3		47.3		4		P
Arsenic	mg/Kg	20	82.2		79.3		4		P
Barium	mg/Kg	20	403		425		5		P
Beryllium	mg/Kg	20	10.8		9.94		8		P
Cadmium	mg/Kg	20	12.4		11.8		5		P
Calcium	mg/Kg	20	9880		9780		1		P
Chromium	mg/Kg	20	39.0		37.9		3		P
Cobalt	mg/Kg	20	18.7		18.1		3		P
Copper	mg/Kg	20	230		223		3		P
Iron	mg/Kg	20	18100		18400		2		P
Lead	mg/Kg	20	740		725		2		P
Magnesium	mg/Kg	20	1140		1120		2		P
Manganese	mg/Kg	20	207		204		1		P
Nickel	mg/Kg	20	57.1		55.3		3		P
Potassium	mg/Kg	20	1810		1870		3		P
Selenium	mg/Kg	20	115		110		4		P
Silver	mg/Kg	20	7.33		7.24		1		P
Sodium	mg/Kg	20	1270		1300		2		P
Thallium	mg/Kg	20	120		116		3		P
Vanadium	mg/Kg	20	37.8		37.0		2		P
Zinc	mg/Kg	20	298		289		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Solid **Sample ID:** Q1753-05 **Client ID:** WC-2DUP

Percent Solids for Sample: 89 **Duplicate ID** Q1753-05DUP **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.026		0.026		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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Solid **Sample ID:** Q1753-05MS **Client ID:** WC-2MSD

Percent Solids for Sample: 89 **Duplicate ID** Q1753-05MSD **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.23		0.18		25	*	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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167490BS							
Aluminum	mg/Kg	94.8	88.7		94	80 - 120	P
Antimony	mg/Kg	37.9	38.4		101	80 - 120	P
Arsenic	mg/Kg	37.9	36.7		97	80 - 120	P
Barium	mg/Kg	9.5	7.77		82	80 - 120	P
Beryllium	mg/Kg	9.5	8.55		90	80 - 120	P
Cadmium	mg/Kg	9.5	8.72		92	80 - 120	P
Calcium	mg/Kg	47.4	44.3	J	94	80 - 120	P
Chromium	mg/Kg	19.0	18.6		98	80 - 120	P
Cobalt	mg/Kg	9.5	8.77		92	80 - 120	P
Copper	mg/Kg	14.2	14.4		101	80 - 120	P
Iron	mg/Kg	140	133		95	80 - 120	P
Lead	mg/Kg	47.4	43.5		92	80 - 120	P
Magnesium	mg/Kg	94.8	86.2	J	91	80 - 120	P
Manganese	mg/Kg	9.5	8.45		89	80 - 120	P
Nickel	mg/Kg	23.7	22.6		95	80 - 120	P
Potassium	mg/Kg	470	427		91	80 - 120	P
Selenium	mg/Kg	94.8	94.0		99	80 - 120	P
Silver	mg/Kg	3.6	3.47		96	80 - 120	P
Sodium	mg/Kg	140	127		91	80 - 120	P
Thallium	mg/Kg	94.8	91.2		96	80 - 120	P
Vanadium	mg/Kg	14.2	13.0		92	80 - 120	P
Zinc	mg/Kg	9.5	9.43		99	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167532BS							
Mercury	mg/Kg	0.27	0.24		90	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

IB-6.5-WCL

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135373 **Lab Sample ID :** Q1745-09L **SDG No.:** Q1744

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	5630		6110		9		P
Antimony	3.35	U	16.7	U			P
Arsenic	36.0		38.3		6		P
Barium	386		428		11		P
Beryllium	0.54		0.59	J	9		P
Cadmium	0.13	J	2.01	U	100.0		P
Calcium	9780		10900		11		P
Chromium	16.2		18.2		12		P
Cobalt	6.11		6.18	J	1		P
Copper	217		249		15		P
Iron	18500		20400		10		P
Lead	694		737		6		P
Magnesium	1030		1160		13		P
Manganese	193		218		13		P
Nickel	26.1		26.7		2		P
Potassium	1240		1260		1		P
Selenium	1.34	U	6.69	U			P
Silver	3.03		3.38		12		P
Sodium	1130		1200		6		P
Thallium	0.76	J	13.4	U	100.0		P
Vanadium	21.1		22.8		8		P
Zinc	292		334		14		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

WC-2L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135354 **Lab Sample ID :** Q1753-05L **SDG No.:** Q1744

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	0.026		0.074	U	100.0		CV

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135354

Start date: 04/09/2025 **End date:** 04/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1106	HG
S0.2	S0.2	1	1109	HG
S2.5	S2.5	1	1111	HG
S5	S5	1	1113	HG
S7.5	S7.5	1	1115	HG
S10	S10	1	1131	HG
ICV82	ICV82	1	1134	HG
ICB82	ICB82	1	1136	HG
CCV49	CCV49	1	1143	HG
CCB49	CCB49	1	1145	HG
CRA	CRA	1	1147	HG
PB167532BL	PB167532BL	1	1158	HG
PB167532BS	PB167532BS	1	1203	HG
Q1744-01	B-158-SB01	1	1208	HG
Q1744-03	B-158-SB02	1	1210	HG
CCV50	CCV50	1	1217	HG
CCB50	CCB50	1	1220	HG
CCV51	CCV51	1	1246	HG
CCB51	CCB51	1	1248	HG
Q1753-05DUP	WC-2DUP	1	1257	HG
Q1753-05MS	WC-2MS	1	1259	HG
Q1753-05MSD	WC-2MSD	1	1302	HG
Q1753-05L	WC-2L	5	1334	HG
Q1753-05A	WC-2A	1	1336	HG
CCV52	CCV52	1	1358	HG
CCB52	CCB52	1	1404	HG
CCV53	CCV53	1	1418	HG
CCB53	CCB53	1	1421	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.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135373

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0930	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	0935	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	0939	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	0943	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	0947	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	0951	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	1009	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	1025	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	1029	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	1033	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	1037	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	1042	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	1100	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	1121	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	1208	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	1212	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	1259	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	1304	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	1351	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	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1744-01	B-158-SB01	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1744-03	B-158-SB02	1	1419	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09DUP	IB-6.5-WCDUP	1	1432	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09L	IB-6.5-WCL	5	1436	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	1444	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	1449	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09A	IB-6.5-WCA	1	1457	Be
Q1745-09MS	IB-6.5-WCMS	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1745-09MSD	IB-6.5-WCMSD	1	1509	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	1544	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	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167490BL	PB167490BL	1	1626	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167490BS	PB167490BS	1	1639	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	1656	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	1700	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	1756	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	1800	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	1819	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	1823	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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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

Alliance TECHNICAL GROUP
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LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/10/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/10/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1744 **SAS No.:** Q1744

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167490**						
PB167490BL	PB167490BL	MB	SOLID	04/07/2025	2.43	100.0	100.00
PB167490BS	PB167490BS	LCS	SOLID	04/07/2025	2.11	100.0	100.00
Q1744-01	B-158-SB01	SAM	SOLID	04/07/2025	2.03	100.0	90.00
Q1744-03	B-158-SB02	SAM	SOLID	04/07/2025	2.10	100.0	56.00
Q1745-09DUP	IB-6.5-WCDUP	DUP	SOLID	04/07/2025	2.22	100.0	71.50
Q1745-09MS	IB-6.5-WCMS	MS	SOLID	04/07/2025	2.09	100.0	71.50
Q1745-09MSD	IB-6.5-WCMSD	MSD	SOLID	04/07/2025	2.13	100.0	71.50

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1744 **SAS No.:** Q1744

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167532**						
PB167532BL	PB167532BL	MB	SOLID	04/08/2025	0.57	35.0	100.00
PB167532BS	PB167532BS	LCS	SOLID	04/08/2025	0.52	35.0	100.00
Q1744-01	B-158-SB01	SAM	SOLID	04/08/2025	0.57	35.0	90.00
Q1744-03	B-158-SB02	SAM	SOLID	04/08/2025	0.57	35.0	56.00
Q1753-05DUP	WC-2DUP	DUP	SOLID	04/08/2025	0.55	35.0	89.00
Q1753-05MS	WC-2MS	MS	SOLID	04/08/2025	0.52	35.0	89.00
Q1753-05MSD	WC-2MSD	MSD	SOLID	04/08/2025	0.56	35.0	89.00

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

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135354

Review By	jaswal	Review On	4/10/2025 10:50:44 PM
Supervise By	mohan	Supervise On	4/16/2025 4:32:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP85158,MP85159,MP85160,MP85161,MP85162,MP85163
ICV Standard	MP85164
CCV Standard	MP85166
ICSA Standard	
CRI Standard	MP85168
LCS Standard	
Chk Standard	MP85165,MP85167,MP85169,MP85174

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/09/25 11:06		mohan	OK
2	S0.2	S0.2	CAL2	04/09/25 11:09		mohan	OK
3	S2.5	S2.5	CAL3	04/09/25 11:11		mohan	OK
4	S5	S5	CAL4	04/09/25 11:13		mohan	OK
5	S7.5	S7.5	CAL5	04/09/25 11:15		mohan	OK
6	S10	S10	CAL6	04/09/25 11:31		mohan	OK
7	ICV82	ICV82	ICV	04/09/25 11:34		mohan	OK
8	ICB82	ICB82	ICB	04/09/25 11:36		mohan	OK
9	CCV49	CCV49	CCV	04/09/25 11:43		mohan	OK
10	CCB49	CCB49	CCB	04/09/25 11:45		mohan	OK
11	CRA	CRA	CRDL	04/09/25 11:47		mohan	OK
12	HighStd	HighStd	HIGH STD	04/09/25 11:50		mohan	OK
13	ChkStd	ChkStd	SAM	04/09/25 11:52		mohan	OK
14	PB167532BL	PB167532BL	MB	04/09/25 11:58		mohan	OK
15	PB167532BS	PB167532BS	LCS	04/09/25 12:03		mohan	OK
16	Q1742-01	TR-06-040725	SAM	04/09/25 12:05		mohan	OK
17	Q1744-01	B-158-SB01	SAM	04/09/25 12:08		mohan	OK
18	Q1744-03	B-158-SB02	SAM	04/09/25 12:10		mohan	OK

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Supervise By	mohan	Supervise On	4/16/2025 4:32:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP85158,MP85159,MP85160,MP85161,MP85162,MP85163
ICV Standard	MP85164
CCV Standard	MP85166
ICSA Standard	
CRI Standard	MP85168
LCS Standard	
Chk Standard	MP85165,MP85167,MP85169,MP85174

19	Q1745-01	IB-6A-WC	SAM	04/09/25 12:12	High	mohan	Dilution
20	Q1745-09	IB-6.5-WC	SAM	04/09/25 12:14	High	mohan	Dilution
21	CCV50	CCV50	CCV	04/09/25 12:17		mohan	OK
22	CCB50	CCB50	CCB	04/09/25 12:20		mohan	OK
23	Q1746-01	B-149-SB01	SAM	04/09/25 12:22		mohan	OK
24	Q1746-03	B-149-SB02	SAM	04/09/25 12:25		mohan	OK
25	Q1747-01	ARS20-0008	SAM	04/09/25 12:27		mohan	OK
26	Q1748-01	IB-1.5-WC	SAM	04/09/25 12:29	High	mohan	Dilution
27	Q1748-05	IB-2A-WC	SAM	04/09/25 12:31		mohan	OK
28	Q1749-01	TP-14	SAM	04/09/25 12:34		mohan	OK
29	Q1752-01	TP-1	SAM	04/09/25 12:37		mohan	OK
30	Q1752-03	TP-2	SAM	04/09/25 12:39		mohan	OK
31	Q1752-05	TP-4	SAM	04/09/25 12:41		mohan	OK
32	Q1752-07	TP-3	SAM	04/09/25 12:44		mohan	OK
33	CCV51	CCV51	CCV	04/09/25 12:46		mohan	OK
34	CCB51	CCB51	CCB	04/09/25 12:48		mohan	OK
35	Q1753-01	WC-1	SAM	04/09/25 12:53		mohan	OK
36	Q1753-05	WC-2	SAM	04/09/25 12:55		mohan	OK
37	Q1753-05DUP	WC-2DUP	DUP	04/09/25 12:57		mohan	OK
38	Q1753-05MS	WC-2MS	MS	04/09/25 12:59		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135354

Review By	jaswal	Review On	4/10/2025 10:50:44 PM
Supervise By	mohan	Supervise On	4/16/2025 4:32:00 PM

STD. NAME	STD REF.#
ICAL Standard	MP85158,MP85159,MP85160,MP85161,MP85162,MP85163
ICV Standard	MP85164
CCV Standard	MP85166
ICSA Standard	
CRI Standard	MP85168
LCS Standard	
Chk Standard	MP85165,MP85167,MP85169,MP85174

39	Q1753-05MSD	WC-2MSD	MSD	04/09/25 13:02		mohan	OK
40	Q1753-05L	WC-2L	SD	04/09/25 13:34		mohan	OK
41	Q1753-05A	WC-2A	PS	04/09/25 13:36		mohan	OK
42	Q1745-01DL	IB-6A-WCDL	SAM	04/09/25 13:41	Report 10X,Still high	mohan	Dilution
43	Q1745-09DL	IB-6.5-WCDL	SAM	04/09/25 13:48	Report 5X	mohan	Confirms
44	Q1748-01DL	IB-1.5-WCDL	SAM	04/09/25 13:56	Report 5X	mohan	Confirms
45	CCV52	CCV52	CCV	04/09/25 13:58		mohan	OK
46	CCB52	CCB52	CCB	04/09/25 14:04		mohan	OK
47	Q1745-01DL2	IB-6A-WCDL2	SAM	04/09/25 14:13	Report 50X	mohan	Confirms
48	CCV53	CCV53	CCV	04/09/25 14:18		mohan	OK
49	CCB53	CCB53	CCB	04/09/25 14:21		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 09:30		Kareem	OK
2	S1	S1	CAL2	04/10/25 09:35		Kareem	OK
3	S2	S2	CAL3	04/10/25 09:39		Kareem	OK
4	S3	S3	CAL4	04/10/25 09:43		Kareem	OK
5	S4	S4	CAL5	04/10/25 09:47		Kareem	OK
6	S5	S5	CAL6	04/10/25 09:51		Kareem	OK
7	ICV01	ICV01	ICV	04/10/25 10:09	ICV01 Fail For Be,Cd,Ca,Co,Mg,Mn,NI,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	04/10/25 10:25		Kareem	OK
9	ICB01	ICB01	ICB	04/10/25 10:29		Kareem	OK
10	CRI01	CRI01	CRDL	04/10/25 10:33		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/10/25 10:37		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/10/25 10:42		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/10/25 10:46		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/10/25 10:50		Kareem	OK
15	CCV01	CCV01	CCV	04/10/25 11:00		Kareem	OK
16	CCB01	CCB01	CCB	04/10/25 11:21		Kareem	OK
17	PB167483BL	PB167483BL	MB	04/10/25 11:26		Kareem	OK
18	PB167483BS	PB167483BS	LCS	04/10/25 11:30		Kareem	OK

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Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	PB167497BL	PB167497BL	MB	04/10/25 11:34		Kareem	OK
20	PB167497BS	PB167497BS	LCS	04/10/25 11:38		Kareem	OK
21	Q1715-01	WATER TREATMENT	SAM	04/10/25 11:42		Kareem	OK
22	Q1745-01	IB-6A-WC	SAM	04/10/25 11:47		Kareem	OK
23	Q1745-09	IB-6.5-WC	SAM	04/10/25 11:51		Kareem	OK
24	Q1748-01	IB-1.5-WC	SAM	04/10/25 11:55		Kareem	OK
25	Q1748-05	IB-2A-WC	SAM	04/10/25 11:59		Kareem	OK
26	Q1749-01	TP-14	SAM	04/10/25 12:03		Kareem	OK
27	CCV02	CCV02	CCV	04/10/25 12:08		Kareem	OK
28	CCB02	CCB02	CCB	04/10/25 12:12		Kareem	OK
29	Q1732-01	TT-8	SAM	04/10/25 12:17		Kareem	OK
30	Q1733-01	ETGI-328	SAM	04/10/25 12:21		Kareem	OK
31	Q1740-01	TP-20	SAM	04/10/25 12:25		Kareem	OK
32	Q1743-01	TP-16	SAM	04/10/25 12:29		Kareem	OK
33	Q1739-01	WC-LIQUID-2025040	SAM	04/10/25 12:33		Kareem	OK
34	Q1748-04	IB-1.5-WC	SAM	04/10/25 12:38		Kareem	OK
35	Q1748-08	IB-2A-WC	SAM	04/10/25 12:42		Kareem	OK
36	Q1754-02	TP-1	SAM	04/10/25 12:46		Kareem	OK
37	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 12:51		Kareem	OK
38	Q1754-01	TP-1	SAM	04/10/25 12:55		Kareem	OK

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Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	CCV03	CCV03	CCV	04/10/25 12:59		Kareem	OK
40	CCB03	CCB03	CCB	04/10/25 13:04		Kareem	OK
41	Q1754-03	TP-1-CONCRETE	SAM	04/10/25 13:07		Kareem	OK
42	Q1754-03DUP	TP-1-CONCRETEDUI	DUP	04/10/25 13:12		Kareem	OK
43	Q1754-03L	TP-1-CONCRETEL	SD	04/10/25 13:16		Kareem	OK
44	Q1754-03A	TP-1-CONCRETEA	PS	04/10/25 13:29		Kareem	OK
45	Q1715-01DUP	WATER TREATMENT	DUP	04/10/25 13:33		Kareem	OK
46	Q1715-01L	WATER TREATMENT	SD	04/10/25 13:38		Kareem	OK
47	Q1745-04	IB-6A-WC	SAM	04/10/25 13:42		Kareem	OK
48	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		Kareem	OK
49	CCV04	CCV04	CCV	04/10/25 13:51		Kareem	OK
50	CCB04	CCB04	CCB	04/10/25 13:55		Kareem	OK
51	Q1715-01MS	WATER TREATMENT	MS	04/10/25 13:59		Kareem	OK
52	Q1715-01MSD	WATER TREATMENT	MSD	04/10/25 14:07		Kareem	OK
53	Q1715-01A	WATER TREATMENT	PS	04/10/25 14:11		Kareem	OK
54	Q1744-01	B-158-SB01	SAM	04/10/25 14:15		Kareem	OK
55	Q1744-03	B-158-SB02	SAM	04/10/25 14:19		Kareem	OK
56	Q1754-03MS	TP-1-CONCRETEMS	MS	04/10/25 14:23		Kareem	OK
57	Q1754-03MSD	TP-1-CONCRETEMS	MSD	04/10/25 14:27		Kareem	OK
58	Q1745-09DUP	IB-6.5-WCDUP	DUP	04/10/25 14:32		Kareem	OK

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Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

59	Q1745-09L	IB-6.5-WCL	SD	04/10/25 14:36		Kareem	OK
60	CCV05	CCV05	CCV	04/10/25 14:44		Kareem	OK
61	CCB05	CCB05	CCB	04/10/25 14:49		Kareem	OK
62	Q1745-09A	IB-6.5-WCA	PS	04/10/25 14:57	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1745-09MS	IB-6.5-WCMS	MS	04/10/25 15:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1745-09MSD	IB-6.5-WCMSD	MSD	04/10/25 15:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	PBW04	PBW04	MB	04/10/25 15:14		Kareem	OK
66	LCSW04	LCSW04	LCS	04/10/25 15:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	PBS04	PBS04	MB	04/10/25 15:23		Kareem	OK
68	LCSS04	LCSS04	LCS	04/10/25 15:27	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
69	PBW05	PBW05	MB	04/10/25 15:31		Kareem	OK
70	PBS05	PBS05	MB	04/10/25 15:35		Kareem	OK
71	WATER MDL-4	WATER MDL-4	SAM	04/10/25 15:40		Kareem	OK
72	CCV06	CCV06	CCV	04/10/25 15:44		Kareem	OK
73	CCB06	CCB06	CCB	04/10/25 15:48		Kareem	OK
74	WATER MDL-5	WATER MDL-5	SAM	04/10/25 15:52		Kareem	OK

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Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

75	SOIL MDL-4	SOIL MDL-4	SAM	04/10/25 16:09		Kareem	OK
76	Q1746-01	B-149-SB01	SAM	04/10/25 16:17		Kareem	OK
77	Q1746-03	B-149-SB02	SAM	04/10/25 16:22		Kareem	OK
78	PB167490BL	PB167490BL	MB	04/10/25 16:26		Kareem	OK
79	PB167490BS	PB167490BS	LCS	04/10/25 16:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
80	PB167517TB	PB167517TB	MB	04/10/25 16:43		Kareem	OK
81	Q1744-02	B-158-SB01	SAM	04/10/25 16:47		Kareem	OK
82	Q1744-04	B-158-SB02	SAM	04/10/25 16:52	Confirm TCLP for Ba	Kareem	OK
83	CCV07	CCV07	CCV	04/10/25 16:56		Kareem	OK
84	CCB07	CCB07	CCB	04/10/25 17:00		Kareem	OK
85	Q1780-01	001-WILLETS-PT-BL	SAM	04/10/25 17:05		Kareem	OK
86	Q1780-02	002-35TH-AVE(MAR)	SAM	04/10/25 17:09		Kareem	OK
87	Q1780-02DUP	002-35TH-AVE(MAR)	DUP	04/10/25 17:13		Kareem	OK
88	Q1780-02L	002-35TH-AVE(MAR)	SD	04/10/25 17:18		Kareem	OK
89	Q1780-02MS	002-35TH-AVE(MAR)	MS	04/10/25 17:22	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1780-02MSD	002-35TH-AVE(MAR)	MSD	04/10/25 17:26	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

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Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

91	Q1780-02A	002-35TH-AVE(MAR)	PS	04/10/25 17:30	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
92	SOIL MDL-5	SOIL MDL-5	SAM	04/10/25 17:34		Kareem	OK
93	PB167554BL	PB167554BL	MB	04/10/25 17:39		Kareem	OK
94	PB167554BS	PB167554BS	LCS	04/10/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	CCV08	CCV08	CCV	04/10/25 17:56		Kareem	OK
96	CCB08	CCB08	CCB	04/10/25 18:00		Kareem	OK
97	LR1	LR1	HIGH STD	04/10/25 18:05		Kareem	OK
98	LR2	LR2	HIGH STD	04/10/25 18:10		Kareem	OK
99	CCV09	CCV09	CCV	04/10/25 18:19		Kareem	OK
100	CCB09	CCB09	CCB	04/10/25 18:23		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167490

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: 04/07/2025 **Time :** 14:05 **Temp :** 96 °C

End Digest Date: 04/07/2025 **Time :** 16:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLDS.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6003
LFS-2	1.00	M6012
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP84041
Conc. HNO3	5.00	M6158
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6151
PTFE Boiling Stones	N/A	M5581
N/A	N/A	N/A
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 35 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/07/25 17:10	SLDS. mcb 4/9	SM (Metals Lab)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB167490

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB167490BL	PBS490	N/A	2.43	100	Colorless	Colorless	Fine	N/A	N/A	1
PB167490BS	LCS490	N/A	2.11	100	Colorless	Colorless	Fine	N/A	M6003,M6012	2
Q1744-01	B-158-SB01	N/A	2.03	100	Colorless	Colorless	Fine	N/A	N/A	3
Q1744-03	B-158-SB02	N/A	2.10	100	Colorless	Colorless	Fine	N/A	N/A	4
Q1745-01	IB-6A-WC	N/A	2.10	100	Brown	Yellow	Medium	N/A	N/A	5
Q1745-09	IB-6.5-WC	N/A	2.09	100	Gray	Yellow	Medium	N/A	N/A	6
Q1745-09MS	IB-6.5-WCMS	N/A	2.09	100	Gray	Yellow	Medium	N/A	M6003,M6012	8
Q1745-09MSD	IB-6.5-WCMSD	N/A	2.13	100	Gray	Yellow	Medium	N/A	M6003,M6012	9
Q1745-09DUP	IB-6.5-WCDUP	N/A	2.22	100	Gray	Yellow	Medium	N/A	N/A	7
Q1746-01	B-149-SB01	N/A	2.14	100	Brown	Yellow	Medium	N/A	N/A	10
Q1746-03	B-149-SB02	N/A	2.05	100	Brown	Yellow	Medium	N/A	N/A	11

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167532

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: 04/08/2025 **Time :** 16:50 **Temp :** 94 °C

End Digest Date: 04/08/2025 **Time :** 17:20 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: [signature]

Supervisor Signature: [signature]

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85164
CCV	30mL	MP85166
CRA	30mL	MP85168
Blank Spike	0.48mL	MP85157
Matrix Spike	0.48mL	MP85157

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	N/A
KMnO4 (5%)	4.5mL	MP84564
Hydroxylamine HCL (12%)	2.0mL	MP84566
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	MP85158
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85159
2.5 ppb	S2.5	30mL	MP85160
5.0 ppb	S5.0	30mL	MP85161
7.5 ppb	S7.5	30mL	MP85162
10.0 ppb	S10.0	30mL	MP85163
ICV	ICV	30mL	MP85164
ICB	ICB	30mL	MP85165
CCV	CCV	30mL	MP85166
CCB	CCB	30mL	MP85167
CRI	CRI	30mL	MP85168
CHK STD	CHK STD	30mL	MP85169

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/8/25 @ 17:10	[illegible]	[illegible]
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB167532

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB167532BL	PBS532	0.57	35	NA	N/A	3-1
PB167532BS	LCS532	0.52	35	NA	MP85157	2
Q1742-01	TR-06-040725	0.56	35	NA	N/A	3
Q1744-01	B-158-SB01	0.57	35	NA	N/A	4
Q1744-03	B-158-SB02	0.57	35	NA	N/A	5
Q1745-01	IB-6A-WC	0.51	35	NA	N/A	6
Q1745-09	IB-6.5-WC	0.50	35	NA	N/A	7
Q1746-01	B-149-SB01	0.54	35	NA	N/A	8
Q1746-03	B-149-SB02	0.58	35	NA	N/A	9
Q1747-01	ARS20-0008	0.57	35	NA	N/A	10
Q1748-01	IB-1.5-WC	0.52	35	NA	N/A	11
Q1748-05	IB-2A-WC	0.52	35	NA	N/A	12
Q1749-01	TP-14	0.55	35	NA	N/A	13
Q1752-01	TP-1	0.55	35	NA	N/A	14
Q1752-03	TP-2	0.56	35	NA	N/A	15
Q1752-05	TP-3	0.59	35	NA	N/A	16
Q1752-07	TP-4	0.50	35	NA	N/A	17
Q1753-01	WC-1	0.53	35	NA	N/A	18
Q1753-05	WC-2	0.53	35	NA	N/A	19
Q1753-05DUP	WC-2DUP	0.55	35	NA	N/A	20
Q1753-05MS	WC-2MS	0.52	35	NA	MP85157	21
Q1753-05MSD	WC-2MSD	0.56	35	NA	MP85157	22

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Hit Summary Sheet
SW-846

SDG No.: Q1744 **Order ID:** Q1744

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-158-SB01								
Q1744-02	B-158-SB01	TCLP	Barium	778		62.8	500	ug/L
Q1744-02	B-158-SB01	TCLP	Chromium	11.3	J	6.60	50.0	ug/L
Client ID : B-158-SB02								
Q1744-04	B-158-SB02	TCLP	Barium	2170		62.8	500	ug/L
Q1744-04	B-158-SB02	TCLP	Lead	36.9	J	35.1	60.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	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	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-39-3	Barium	778	N	1	62.8	500	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-47-3	Chromium	11.3	J	1	6.60	50.0	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/10/25 09:45	04/10/25 13:36	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	04/09/25 12:30	04/10/25 16:47	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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	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	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-39-3	Barium	2170	N	1	62.8	500	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7439-92-1	Lead	36.9	J	1	35.1	60.0	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/10/25 09:45	04/10/25 13:43	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	04/09/25 12:30	04/10/25 16:52	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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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB83	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:03	LB135365

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:08	LB135365
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:41	LB135365
CCB55	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	14:08	LB135365
CCB56	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	14:38	LB135365
CCB57	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	15:08	LB135365
CCB58	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	15:28	LB135365

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	10:29	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	10:29	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	10:29	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	11:21	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	11:21	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	11:21	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	12:12	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	12:12	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:04	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:04	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:55	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:55	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	14:49	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	14:49	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	15:48	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/10/2025	15:48	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	17:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	17:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:23	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:23	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/14/2025	14:05	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:05	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:05	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:05	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/14/2025	14:35	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:35	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:35	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:35	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	15:26	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	15:26	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	15:26	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	16:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	16:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	16:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	17:22	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	17:22	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	17:22	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	18:20	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	18:20	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	18:20	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	19:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	19:11	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	04/14/2025	19:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:01	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:01	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:01	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:52	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:52	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:52	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	21:42	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	21:42	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	21:42	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
CCB11	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:44	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:44	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:44	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
CCB12	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB12	Barium	100	+/-100	U	100	P	04/14/2025	23:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	23:11	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	23:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167517TB		**WATER**		**Batch Number:**	**PB167539**		**Prep Date:**	**04/10/2025**	
	Mercury	2.00	<2.00	U	2.00	CV	04/10/2025	15:12	LB135365

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167539BL		**WATER**		**Batch Number:**	**PB167539**		**Prep Date:**	**04/10/2025**	
	Mercury	0.20	<0.20	U	0.20	CV	04/10/2025	13:17	LB135365

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167517TB		**WATER**		**Batch Number:**	**PB167533**		**Prep Date:**	**04/09/2025**	
	Arsenic	100	<100	U	100	P	04/10/2025	16:43	LB135373
	Barium	500	<500	U	500	P	04/10/2025	16:43	LB135373
	Cadmium	30.0	<30.0	U	30.0	P	04/10/2025	16:43	LB135373
	Chromium	50.0	<50.0	U	50.0	P	04/10/2025	16:43	LB135373
	Lead	60.0	<60.0	U	60.0	P	04/10/2025	16:43	LB135373
	Selenium	100	<100	U	100	P	04/10/2025	16:43	LB135373
	Silver	50.0	<50.0	U	50.0	P	04/10/2025	16:43	LB135373

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167533BL		**WATER**		**Batch Number:**	**PB167533**		**Prep Date:**	**04/09/2025**	
	Arsenic	100	<100	U	100	P	04/14/2025	15:56	LB135424
	Barium	500	<500	U	500	P	04/14/2025	15:56	LB135424
	Cadmium	30.0	<30.0	U	30.0	P	04/14/2025	15:56	LB135424
	Chromium	50.0	<50.0	U	50.0	P	04/14/2025	15:56	LB135424
	Lead	60.0	<60.0	U	60.0	P	04/14/2025	15:56	LB135424
	Selenium	100	<100	U	100	P	04/14/2025	15:56	LB135424
	Silver	50.0	<50.0	U	50.0	P	04/14/2025	15:56	LB135424

METAL CALIBRATION DATA

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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
ICV83	Mercury	4.06	4.0	102	90 - 110	CV	04/10/2025	13:01	LB135365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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
CCV53	Mercury	4.98	5.0	100	90 - 110	CV	04/10/2025	13:06	LB135365
CCV54	Mercury	4.95	5.0	99	90 - 110	CV	04/10/2025	13:38	LB135365
CCV55	Mercury	4.88	5.0	98	90 - 110	CV	04/10/2025	14:06	LB135365
CCV56	Mercury	4.94	5.0	99	90 - 110	CV	04/10/2025	14:36	LB135365
CCV57	Mercury	4.81	5.0	96	90 - 110	CV	04/10/2025	15:06	LB135365
CCV58	Mercury	5.01	5.0	100	90 - 110	CV	04/10/2025	15:26	LB135365

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	985	1000	98	90 - 110	P	04/10/2025	10:09	LB135373
	Barium	534	520	103	90 - 110	P	04/10/2025	10:09	LB135373
	Cadmium	483	510	95	90 - 110	P	04/10/2025	10:09	LB135373
	Chromium	505	520	97	90 - 110	P	04/10/2025	10:09	LB135373
	Lead	951	1000	95	90 - 110	P	04/10/2025	10:09	LB135373
	Selenium	1030	1000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Silver	245	250	98	90 - 110	P	04/10/2025	10:09	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	18.5	20.0	92	80 - 120	P	04/10/2025	10:25	LB135373
	Barium	85.5	100	86	80 - 120	P	04/10/2025	10:25	LB135373
	Cadmium	5.62	6.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Chromium	9.56	10.0	96	80 - 120	P	04/10/2025	10:25	LB135373
	Lead	9.94	12.0	83	80 - 120	P	04/10/2025	10:25	LB135373
	Selenium	18.9	20.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Silver	10.5	10.0	104	80 - 120	P	04/10/2025	10:25	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	4750	5000	95	90 - 110	P	04/10/2025	11:00	LB135373
	Barium	9770	10000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Cadmium	2340	2500	94	90 - 110	P	04/10/2025	11:00	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	11:00	LB135373
	Lead	5240	5000	105	90 - 110	P	04/10/2025	11:00	LB135373
	Selenium	4820	5000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Silver	1250	1250	100	90 - 110	P	04/10/2025	11:00	LB135373
CCV02	Arsenic	4800	5000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Barium	9680	10000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	12:08	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:08	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	12:08	LB135373
	Selenium	4860	5000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	12:08	LB135373
CCV03	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	12:59	LB135373
	Barium	10100	10000	101	90 - 110	P	04/10/2025	12:59	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	12:59	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:59	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	12:59	LB135373
	Selenium	4990	5000	100	90 - 110	P	04/10/2025	12:59	LB135373
	Silver	1270	1250	101	90 - 110	P	04/10/2025	12:59	LB135373
CCV04	Arsenic	4880	5000	98	90 - 110	P	04/10/2025	13:51	LB135373
	Barium	9600	10000	96	90 - 110	P	04/10/2025	13:51	LB135373
	Cadmium	2380	2500	95	90 - 110	P	04/10/2025	13:51	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	13:51	LB135373
	Lead	4760	5000	95	90 - 110	P	04/10/2025	13:51	LB135373
	Selenium	4960	5000	99	90 - 110	P	04/10/2025	13:51	LB135373
	Silver	1270	1250	102	90 - 110	P	04/10/2025	13:51	LB135373
CCV05	Arsenic	4820	5000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	14:44	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	14:44	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	14:44	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	14:44	LB135373
	Selenium	4910	5000	98	90 - 110	P	04/10/2025	14:44	LB135373

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	1270	1250	101	90 - 110	P	04/10/2025	14:44	LB135373
CCV06	Arsenic	4780	5000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Barium	9640	10000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Cadmium	2340	2500	93	90 - 110	P	04/10/2025	15:44	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	15:44	LB135373
	Lead	4690	5000	94	90 - 110	P	04/10/2025	15:44	LB135373
	Selenium	4850	5000	97	90 - 110	P	04/10/2025	15:44	LB135373
	Silver	1260	1250	100	90 - 110	P	04/10/2025	15:44	LB135373
CCV07	Arsenic	4920	5000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Barium	9570	10000	96	90 - 110	P	04/10/2025	16:56	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	16:56	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	16:56	LB135373
	Selenium	5020	5000	100	90 - 110	P	04/10/2025	16:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	16:56	LB135373
CCV08	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	17:56	LB135373
	Barium	9470	10000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	17:56	LB135373
	Chromium	1030	1000	103	90 - 110	P	04/10/2025	17:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Selenium	4980	5000	100	90 - 110	P	04/10/2025	17:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	17:56	LB135373
CCV09	Arsenic	4850	5000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	18:19	LB135373
	Chromium	1000	1000	100	90 - 110	P	04/10/2025	18:19	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	18:19	LB135373
	Selenium	4930	5000	99	90 - 110	P	04/10/2025	18:19	LB135373
	Silver	1240	1250	99	90 - 110	P	04/10/2025	18:19	LB135373

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	1060	1000	106	90 - 110	P	04/14/2025	13:56	LB135424
	Barium	534	520	103	90 - 110	P	04/14/2025	13:56	LB135424
	Cadmium	507	510	99	90 - 110	P	04/14/2025	13:56	LB135424
	Chromium	507	520	98	90 - 110	P	04/14/2025	13:56	LB135424
	Lead	1000	1000	100	90 - 110	P	04/14/2025	13:56	LB135424
	Selenium	1050	1000	105	90 - 110	P	04/14/2025	13:56	LB135424
	Silver	246	250	98	90 - 110	P	04/14/2025	13:56	LB135424

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	22.8	20.0	114	80 - 120	P	04/14/2025	14:01	LB135424
	Barium	96.1	100	96	80 - 120	P	04/14/2025	14:01	LB135424
	Cadmium	6.12	6.0	102	80 - 120	P	04/14/2025	14:01	LB135424
	Chromium	9.81	10.0	98	80 - 120	P	04/14/2025	14:01	LB135424
	Lead	12.4	12.0	103	80 - 120	P	04/14/2025	14:01	LB135424
	Selenium	19.0	20.0	95	80 - 120	P	04/14/2025	14:01	LB135424
	Silver	10.0	10.0	100	80 - 120	P	04/14/2025	14:01	LB135424

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	4910	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Barium	9640	10000	96	90 - 110	P	04/14/2025	14:31	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	14:31	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	14:31	LB135424
	Selenium	4930	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Silver	1250	1250	100	90 - 110	P	04/14/2025	14:31	LB135424
CCV02	Arsenic	4930	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	15:22	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	15:22	LB135424
	Chromium	995	1000	100	90 - 110	P	04/14/2025	15:22	LB135424
	Lead	4930	5000	98	90 - 110	P	04/14/2025	15:22	LB135424
	Selenium	4970	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Silver	1230	1250	98	90 - 110	P	04/14/2025	15:22	LB135424
CCV03	Arsenic	4890	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Barium	9870	10000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	16:28	LB135424
	Chromium	983	1000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Lead	4930	5000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Selenium	4900	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Silver	1230	1250	99	90 - 110	P	04/14/2025	16:28	LB135424
CCV04	Arsenic	4920	5000	98	90 - 110	P	04/14/2025	17:18	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	17:18	LB135424
	Cadmium	2480	2500	99	90 - 110	P	04/14/2025	17:18	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	17:18	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Selenium	4950	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Silver	1240	1250	99	90 - 110	P	04/14/2025	17:18	LB135424
CCV05	Arsenic	4860	5000	97	90 - 110	P	04/14/2025	18:16	LB135424
	Barium	9570	10000	96	90 - 110	P	04/14/2025	18:16	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	18:16	LB135424
	Chromium	986	1000	99	90 - 110	P	04/14/2025	18:16	LB135424
	Lead	4920	5000	98	90 - 110	P	04/14/2025	18:16	LB135424
	Selenium	4910	5000	98	90 - 110	P	04/14/2025	18:16	LB135424

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	98	90 - 110	P	04/14/2025	18:16	LB135424
CCV06	Arsenic	4780	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Barium	9740	10000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	19:07	LB135424
	Chromium	957	1000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Lead	4870	5000	98	90 - 110	P	04/14/2025	19:07	LB135424
	Selenium	4820	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Silver	1190	1250	95	90 - 110	P	04/14/2025	19:07	LB135424
CCV07	Arsenic	4740	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	19:57	LB135424
	Chromium	974	1000	97	90 - 110	P	04/14/2025	19:57	LB135424
	Lead	4820	5000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Selenium	4770	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	19:57	LB135424
CCV08	Arsenic	4810	5000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	20:48	LB135424
	Cadmium	2440	2500	98	90 - 110	P	04/14/2025	20:48	LB135424
	Chromium	955	1000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Selenium	4860	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Silver	1190	1250	96	90 - 110	P	04/14/2025	20:48	LB135424
CCV09	Arsenic	4770	5000	95	90 - 110	P	04/14/2025	21:38	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	21:38	LB135424
	Chromium	973	1000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Lead	4840	5000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Silver	1220	1250	97	90 - 110	P	04/14/2025	21:38	LB135424
CCV10	Arsenic	4830	5000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Barium	9670	10000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:28	LB135424
	Chromium	977	1000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Lead	4870	5000	97	90 - 110	P	04/14/2025	22:28	LB135424

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	4880	5000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Silver	1220	1250	98	90 - 110	P	04/14/2025	22:28	LB135424
CCV11	Arsenic	4800	5000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	22:40	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:40	LB135424
	Chromium	958	1000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Selenium	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Silver	1210	1250	97	90 - 110	P	04/14/2025	22:40	LB135424
CCV12	Arsenic	4760	5000	95	90 - 110	P	04/14/2025	23:06	LB135424
	Barium	9900	10000	99	90 - 110	P	04/14/2025	23:06	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	23:06	LB135424
	Chromium	965	1000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Lead	4830	5000	97	90 - 110	P	04/14/2025	23:06	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	23:06	LB135424

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	Arsenic	18.9	20.0	95	40 - 160	P	04/10/2025	10:33	LB135373
	Barium	85.4	100	85	40 - 160	P	04/10/2025	10:33	LB135373
	Cadmium	5.51	6.0	92	40 - 160	P	04/10/2025	10:33	LB135373
	Chromium	9.42	10.0	94	40 - 160	P	04/10/2025	10:33	LB135373
	Lead	11.6	12.0	97	40 - 160	P	04/10/2025	10:33	LB135373
	Selenium	18.1	20.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Silver	10.4	10.0	104	40 - 160	P	04/10/2025	10:33	LB135373
CRA	Mercury	0.19	0.2	96	40 - 160	CV	04/10/2025	13:10	LB135365
CRI01	Arsenic	22.3	20.0	112	40 - 160	P	04/14/2025	14:09	LB135424
	Barium	95.6	100	96	40 - 160	P	04/14/2025	14:09	LB135424
	Cadmium	6.08	6.0	101	40 - 160	P	04/14/2025	14:09	LB135424
	Chromium	9.67	10.0	97	40 - 160	P	04/14/2025	14:09	LB135424
	Lead	12.2	12.0	102	40 - 160	P	04/14/2025	14:09	LB135424
	Selenium	19.6	20.0	98	40 - 160	P	04/14/2025	14:09	LB135424
	Silver	9.88	10.0	99	40 - 160	P	04/14/2025	14:09	LB135424

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	5.16			-20	20	04/10/2025	10:37	LB135373
	Barium	-3.92	6.0	65	-94	106	04/10/2025	10:37	LB135373
	Cadmium	-3.53	1.0	353	-5	7	04/10/2025	10:37	LB135373
	Chromium	55.8	52.0	107	42	62	04/10/2025	10:37	LB135373
	Lead	7.32			-12	12	04/10/2025	10:37	LB135373
	Selenium	-8.19			-20	20	04/10/2025	10:37	LB135373
	Silver	3.75			-10	10	04/10/2025	10:37	LB135373
ICSAB01	Arsenic	111	104	107	88.4	120	04/10/2025	10:42	LB135373
	Barium	459	537	86	437	637	04/10/2025	10:42	LB135373
	Cadmium	981	972	101	826	1120	04/10/2025	10:42	LB135373
	Chromium	553	542	102	460	624	04/10/2025	10:42	LB135373
	Lead	57.3	49.0	117	37	61	04/10/2025	10:42	LB135373
	Selenium	36.7	46.0	80	26	66	04/10/2025	10:42	LB135373
	Silver	186	201	92	170	232	04/10/2025	10:42	LB135373
ICSA01	Arsenic	10.8			-20	20	04/14/2025	14:14	LB135424
	Barium	4.69	6.0	78	-94	106	04/14/2025	14:14	LB135424
	Cadmium	-1.94	1.0	194	-5	7	04/14/2025	14:14	LB135424
	Chromium	55.2	52.0	106	42	62	04/14/2025	14:14	LB135424
	Lead	5.03			-12	12	04/14/2025	14:14	LB135424
	Selenium	-0.72			-20	20	04/14/2025	14:14	LB135424
	Silver	-3.74			-10	10	04/14/2025	14:14	LB135424
ICSAB01	Arsenic	114	104	110	88.4	120	04/14/2025	14:18	LB135424
	Barium	479	537	89	437	637	04/14/2025	14:18	LB135424
	Cadmium	1040	972	107	826	1120	04/14/2025	14:18	LB135424
	Chromium	553	542	102	460	624	04/14/2025	14:18	LB135424
	Lead	53.8	49.0	110	37	61	04/14/2025	14:18	LB135424
	Selenium	47.1	46.0	102	26	66	04/14/2025	14:18	LB135424
	Silver	179	201	89	170	232	04/14/2025	14:18	LB135424

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744

contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744

matrix: Water **sample id:** Q1743-04 **client id:** TP-16MS

Percent Solids for Sample: NA **Spiked ID:** Q1743-04MS **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	3390		100	U	4000	85		P
Barium	ug/L	75 - 125	3120		2470		1000	65	N	P
Cadmium	ug/L	75 - 125	865		4.92	J	1000	86		P
Chromium	ug/L	75 - 125	1680		50.0	U	2000	84		P
Lead	ug/L	75 - 125	6040		2220		5000	76		P
Mercury	ug/L	75 - 125	36.6		2.00	U	40.0	92		CV
Selenium	ug/L	75 - 125	8320		100	U	10000	83		P
Silver	ug/L	75 - 125	310		50.0	U	380	82		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744

contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744

matrix: Water **sample id:** Q1743-04 **client id:** TP-16MSD

Percent Solids for Sample: NA **Spiked ID:** Q1743-04MSD **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	3500		100	U	4000	88		P
Barium	ug/L	75 - 125	3020		2470		1000	54	N	P
Cadmium	ug/L	75 - 125	872		4.92	J	1000	87		P
Chromium	ug/L	75 - 125	1700		50.0	U	2000	85		P
Lead	ug/L	75 - 125	6110		2220		5000	78		P
Mercury	ug/L	75 - 125	35.5		2.00	U	40.0	89		CV
Selenium	ug/L	75 - 125	8540		100	U	10000	85		P
Silver	ug/L	75 - 125	314		50.0	U	380	83		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Water **Level:** LOW **Client ID:** TP-16A

Sample ID: Q1743-04 **Spiked ID:** Q1743-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	3250		2470		1000	77		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Water **Sample ID:** Q1743-04 **Client ID:** TP-16DUP

Percent Solids for Sample: NA **Duplicate ID** Q1743-04DUP **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	2470		2440		1		P
Cadmium	ug/L	20	4.92	J	5.01	J	2		P
Chromium	ug/L	20	50.0	U	14.2	J	200.0		P
Lead	ug/L	20	2220		2220		0		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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Matrix: Water **Sample ID:** Q1743-04MS **Client ID:** TP-16MSD

Percent Solids for Sample: NA **Duplicate ID** Q1743-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3390		3500		3		P
Barium	ug/L	20	3120		3020		3		P
Cadmium	ug/L	20	865		872		1		P
Chromium	ug/L	20	1680		1700		1		P
Lead	ug/L	20	6040		6110		1		P
Mercury	ug/L	20	36.6		35.5		3		CV
Selenium	ug/L	20	8320		8540		3		P
Silver	ug/L	20	310		314		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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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167533BS							
Arsenic	ug/L	4000	4080		102	80 - 120	P
Barium	ug/L	1000	968		97	80 - 120	P
Cadmium	ug/L	1000	1020		102	80 - 120	P
Chromium	ug/L	2000	2010		100	80 - 120	P
Lead	ug/L	5000	5050		101	80 - 120	P
Selenium	ug/L	10000	10200		102	80 - 120	P
Silver	ug/L	380	372		98	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167539BS							
Mercury	ug/L	4.0	3.80		95	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-16L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb135424 **Lab Sample ID :** Q1743-04L **SDG No.:** Q1744

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	2470		2500		1		P
Cadmium	4.92	J	5.82	J	18		P
Chromium	50.0	U	39.7	J	100.0		P
Lead	2220		2330		5		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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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135365

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1241	HG
S0.2	S0.2	1	1244	HG
S2.5	S2.5	1	1246	HG
S5	S5	1	1248	HG
S7.5	S7.5	1	1250	HG
S10	S10	1	1253	HG
ICV83	ICV83	1	1301	HG
ICB83	ICB83	1	1303	HG
CCV53	CCV53	1	1306	HG
CCB53	CCB53	1	1308	HG
CRA	CRA	1	1310	HG
PB167539BL	PB167539BL	1	1317	HG
PB167539BS	PB167539BS	1	1322	HG
Q1743-04DUP	TP-16DUP	1	1327	HG
Q1743-04MS	TP-16MS	1	1331	HG
Q1743-04MSD	TP-16MSD	1	1334	HG
Q1744-02	B-158-SB01	1	1336	HG
CCV54	CCV54	1	1338	HG
CCB54	CCB54	1	1341	HG
Q1744-04	B-158-SB02	1	1343	HG
CCV55	CCV55	1	1406	HG
CCB55	CCB55	1	1408	HG
CCV56	CCV56	1	1436	HG
CCB56	CCB56	1	1438	HG
CCV57	CCV57	1	1506	HG
CCB57	CCB57	1	1508	HG
PB167517TB	PB167517TB	1	1512	HG
Q1743-04L	TP-16L	5	1517	HG
CCV58	CCV58	1	1526	HG
CCB58	CCB58	1	1528	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.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135373

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0930	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	0935	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	0939	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	0943	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	0947	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	0951	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1009	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1025	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1029	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1033	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1037	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1042	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1100	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1121	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1208	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1212	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1259	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1304	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1351	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1449	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1544	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1548	Ag,As,Ba,Cd,Cr,Pb,Se
PB167517TB	PB167517TB	1	1643	Ag,As,Ba,Cd,Cr,Pb,Se
Q1744-02	B-158-SB01	1	1647	Ag,As,Ba,Cd,Cr,Pb,Se
Q1744-04	B-158-SB02	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1656	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1700	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1756	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1800	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1819	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1823	Ag,As,Ba,Cd,Cr,Pb,Se

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metals
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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135424

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1313	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1317	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1322	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1326	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1330	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1334	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1356	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1409	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1414	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1418	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1431	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1435	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04DUP	TP-16DUP	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04L	TP-16L	5	1448	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04MS	TP-16MS	1	1452	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04MSD	TP-16MSD	1	1457	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04A	TP-16A	1	1501	Ba
CCV02	CCV02	1	1522	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1526	Ag,As,Ba,Cd,Cr,Pb,Se
PB167533BL	PB167533BL	1	1556	Ag,As,Ba,Cd,Cr,Pb,Se
PB167533BS	PB167533BS	1	1601	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1632	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1718	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1722	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1816	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1820	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1907	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1911	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1957	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2001	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2048	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2052	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2138	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2142	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2228	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2232	Ag,As,Ba,Cd,Cr,Pb,Se
CCV11	CCV11	1	2240	Ag,As,Ba,Cd,Cr,Pb,Se
CCB11	CCB11	1	2244	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.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135424

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV12	CCV12	1	2306	Ag,As,Ba,Cd,Cr,Pb,Se
CCB12	CCB12	1	2311	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1744-02	**B-158-SB01**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/10/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25**			**04/07/25**
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1744-04	**B-158-SB02**	**TCLP**			**04/05/25**			**04/07/25**
			TCLP ICP Metals	6010D		04/09/25	04/10/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1744 **SAS No.:** Q1744

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167533**						
PB167517TB	PB167517TB	MB	WATER	04/09/2025	5.0	25.0	
PB167533BL	PB167533BL	MB	WATER	04/09/2025	5.0	25.0	
PB167533BS	PB167533BS	LCS	WATER	04/09/2025	5.0	25.0	
Q1743-04DUP	TP-16DUP	DUP	WATER	04/09/2025	5.0	25.0	
Q1743-04MS	TP-16MS	MS	WATER	04/09/2025	5.0	25.0	
Q1743-04MSD	TP-16MSD	MSD	WATER	04/09/2025	5.0	25.0	
Q1744-02	B-158-SB01	SAM	WATER	04/09/2025	5.0	25.0	
Q1744-04	B-158-SB02	SAM	WATER	04/09/2025	5.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1744 **SAS No.:** Q1744

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB167539**						
PB167517TB	PB167517TB	MB	WATER	04/10/2025	3.0	30.0	
PB167539BL	PB167539BL	MB	WATER	04/10/2025	30.0	30.0	
PB167539BS	PB167539BS	LCS	WATER	04/10/2025	30.0	30.0	
Q1743-04DUP	TP-16DUP	DUP	WATER	04/10/2025	3.0	30.0	
Q1743-04MS	TP-16MS	MS	WATER	04/10/2025	3.0	30.0	
Q1743-04MSD	TP-16MSD	MSD	WATER	04/10/2025	3.0	30.0	
Q1744-02	B-158-SB01	SAM	WATER	04/10/2025	3.0	30.0	
Q1744-04	B-158-SB02	SAM	WATER	04/10/2025	3.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 12:41		mohan	OK
2	S0.2	S0.2	CAL2	04/10/25 12:44		mohan	OK
3	S2.5	S2.5	CAL3	04/10/25 12:46		mohan	OK
4	S5	S5	CAL4	04/10/25 12:48		mohan	OK
5	S7.5	S7.5	CAL5	04/10/25 12:50		mohan	OK
6	S10	S10	CAL6	04/10/25 12:53		mohan	OK
7	ICV83	ICV83	ICV	04/10/25 13:01		mohan	OK
8	ICB83	ICB83	ICB	04/10/25 13:03		mohan	OK
9	CCV53	CCV53	CCV	04/10/25 13:06		mohan	OK
10	CCB53	CCB53	CCB	04/10/25 13:08		mohan	OK
11	CRA	CRA	CRDL	04/10/25 13:10		mohan	OK
12	HighStd	HighStd	HIGH STD	04/10/25 13:12		mohan	OK
13	ChkStd	ChkStd	SAM	04/10/25 13:15		mohan	OK
14	PB167539BL	PB167539BL	MB	04/10/25 13:17		mohan	OK
15	PB167539BS	PB167539BS	LCS	04/10/25 13:22		mohan	OK
16	Q1743-04	TP-16	SAM	04/10/25 13:24		mohan	OK
17	Q1743-04DUP	TP-16DUP	DUP	04/10/25 13:27		mohan	OK
18	Q1743-04MS	TP-16MS	MS	04/10/25 13:31		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

19	Q1743-04MSD	TP-16MSD	MSD	04/10/25 13:34		mohan	OK
20	Q1744-02	B-158-SB01	SAM	04/10/25 13:36		mohan	OK
21	CCV54	CCV54	CCV	04/10/25 13:38		mohan	OK
22	CCB54	CCB54	CCB	04/10/25 13:41		mohan	OK
23	Q1744-04	B-158-SB02	SAM	04/10/25 13:43		mohan	OK
24	Q1745-04	IB-6A-WC	SAM	04/10/25 13:45		mohan	OK
25	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		mohan	OK
26	Q1746-02	B-149-SB01	SAM	04/10/25 13:50		mohan	OK
27	Q1746-04	B-149-SB02	SAM	04/10/25 13:52		mohan	OK
28	Q1748-04	IB-1.5-WC	SAM	04/10/25 13:54		mohan	OK
29	Q1748-08	IB-2A-WC	SAM	04/10/25 13:56		mohan	OK
30	Q1749-04	TP-14	SAM	04/10/25 13:59		mohan	OK
31	Q1752-02	TP-1	SAM	04/10/25 14:01		mohan	OK
32	Q1752-04	TP-2	SAM	04/10/25 14:03		mohan	OK
33	CCV55	CCV55	CCV	04/10/25 14:06		mohan	OK
34	CCB55	CCB55	CCB	04/10/25 14:08		mohan	OK
35	Q1752-06	TP-4	SAM	04/10/25 14:10		mohan	OK
36	Q1752-08	TP-3	SAM	04/10/25 14:12		mohan	OK
37	Q1753-04	WC-1	SAM	04/10/25 14:15		mohan	OK
38	Q1753-08	WC-2	SAM	04/10/25 14:17		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

39	Q1754-02	TP-1	SAM	04/10/25 14:19		mohan	OK
40	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 14:21		mohan	OK
41	PB167540BL	PB167540BL	MB	04/10/25 14:24		mohan	OK
42	PB167540BS	PB167540BS	LCS	04/10/25 14:26		mohan	OK
43	Q1730-02	OU4-VSL-15-040325	SAM	04/10/25 14:28		mohan	OK
44	Q1730-04	OU4-VSL-16-040325	SAM	04/10/25 14:31		mohan	OK
45	CCV56	CCV56	CCV	04/10/25 14:36		mohan	OK
46	CCB56	CCB56	CCB	04/10/25 14:38		mohan	OK
47	Q1730-06	OU4-VSL-17-040325	SAM	04/10/25 14:40		mohan	OK
48	Q1730-08	OU4-PCS-TC-21-040	SAM	04/10/25 14:42		mohan	OK
49	Q1730-10	OU4-PCS-TC-22-040	SAM	04/10/25 14:45		mohan	OK
50	Q1730-12	OU4-PCS-TC-23-040	SAM	04/10/25 14:47		mohan	OK
51	Q1730-14	OU4-PCS-TC-24-040	SAM	04/10/25 14:49		mohan	OK
52	Q1730-16	OU4-PCS-TC-25-040	SAM	04/10/25 14:51		mohan	OK
53	Q1730-18	OU4-PCS-TC-26-040	SAM	04/10/25 14:54		mohan	OK
54	Q1730-20	OU4-CF-15-040325	SAM	04/10/25 14:56		mohan	OK
55	Q1730-20DUP	OU4-CF-15-040325D	DUP	04/10/25 14:58		mohan	OK
56	Q1730-20MS	OU4-CF-15-040325M	MS	04/10/25 15:03		mohan	OK
57	CCV57	CCV57	CCV	04/10/25 15:06		mohan	OK
58	CCB57	CCB57	CCB	04/10/25 15:08		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM

STD. NAME	STD REF.#
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181
ICV Standard	MP85182
CCV Standard	MP85184
ICSA Standard	
CRI Standard	MP85186
LCS Standard	
Chk Standard	MP85183,MP85185,MP85187,MP85189

59	Q1730-20MSD	OU4-CF-15-040325M	MSD	04/10/25 15:10		mohan	OK
60	PB167517TB	PB167517TB	MB	04/10/25 15:12		mohan	OK
61	PB167540TB	PB167540TB	MB	04/10/25 15:15		mohan	OK
62	Q1743-04L	TP-16L	SD	04/10/25 15:17		mohan	OK
63	Q1743-04A	TP-16A	PS	04/10/25 15:19		mohan	OK
64	Q1730-20L	OU4-CF-15-040325L	SD	04/10/25 15:22		mohan	OK
65	Q1730-20A	OU4-CF-15-040325A	PS	04/10/25 15:24		mohan	OK
66	CCV58	CCV58	CCV	04/10/25 15:26		mohan	OK
67	CCB58	CCB58	CCB	04/10/25 15:28		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 09:30		Kareem	OK
2	S1	S1	CAL2	04/10/25 09:35		Kareem	OK
3	S2	S2	CAL3	04/10/25 09:39		Kareem	OK
4	S3	S3	CAL4	04/10/25 09:43		Kareem	OK
5	S4	S4	CAL5	04/10/25 09:47		Kareem	OK
6	S5	S5	CAL6	04/10/25 09:51		Kareem	OK
7	ICV01	ICV01	ICV	04/10/25 10:09	ICV01 Fail For Be,Cd,Ca,Co,Mg,Mn,NI,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	04/10/25 10:25		Kareem	OK
9	ICB01	ICB01	ICB	04/10/25 10:29		Kareem	OK
10	CRI01	CRI01	CRDL	04/10/25 10:33		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/10/25 10:37		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/10/25 10:42		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/10/25 10:46		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/10/25 10:50		Kareem	OK
15	CCV01	CCV01	CCV	04/10/25 11:00		Kareem	OK
16	CCB01	CCB01	CCB	04/10/25 11:21		Kareem	OK
17	PB167483BL	PB167483BL	MB	04/10/25 11:26		Kareem	OK
18	PB167483BS	PB167483BS	LCS	04/10/25 11:30		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	PB167497BL	PB167497BL	MB	04/10/25 11:34		Kareem	OK
20	PB167497BS	PB167497BS	LCS	04/10/25 11:38		Kareem	OK
21	Q1715-01	WATER TREATMENT	SAM	04/10/25 11:42		Kareem	OK
22	Q1745-01	IB-6A-WC	SAM	04/10/25 11:47		Kareem	OK
23	Q1745-09	IB-6.5-WC	SAM	04/10/25 11:51		Kareem	OK
24	Q1748-01	IB-1.5-WC	SAM	04/10/25 11:55		Kareem	OK
25	Q1748-05	IB-2A-WC	SAM	04/10/25 11:59		Kareem	OK
26	Q1749-01	TP-14	SAM	04/10/25 12:03		Kareem	OK
27	CCV02	CCV02	CCV	04/10/25 12:08		Kareem	OK
28	CCB02	CCB02	CCB	04/10/25 12:12		Kareem	OK
29	Q1732-01	TT-8	SAM	04/10/25 12:17		Kareem	OK
30	Q1733-01	ETGI-328	SAM	04/10/25 12:21		Kareem	OK
31	Q1740-01	TP-20	SAM	04/10/25 12:25		Kareem	OK
32	Q1743-01	TP-16	SAM	04/10/25 12:29		Kareem	OK
33	Q1739-01	WC-LIQUID-2025040	SAM	04/10/25 12:33		Kareem	OK
34	Q1748-04	IB-1.5-WC	SAM	04/10/25 12:38		Kareem	OK
35	Q1748-08	IB-2A-WC	SAM	04/10/25 12:42		Kareem	OK
36	Q1754-02	TP-1	SAM	04/10/25 12:46		Kareem	OK
37	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 12:51		Kareem	OK
38	Q1754-01	TP-1	SAM	04/10/25 12:55		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	CCV03	CCV03	CCV	04/10/25 12:59		Kareem	OK
40	CCB03	CCB03	CCB	04/10/25 13:04		Kareem	OK
41	Q1754-03	TP-1-CONCRETE	SAM	04/10/25 13:07		Kareem	OK
42	Q1754-03DUP	TP-1-CONCRETEDUI	DUP	04/10/25 13:12		Kareem	OK
43	Q1754-03L	TP-1-CONCRETEL	SD	04/10/25 13:16		Kareem	OK
44	Q1754-03A	TP-1-CONCRETEA	PS	04/10/25 13:29		Kareem	OK
45	Q1715-01DUP	WATER TREATMENT	DUP	04/10/25 13:33		Kareem	OK
46	Q1715-01L	WATER TREATMENT	SD	04/10/25 13:38		Kareem	OK
47	Q1745-04	IB-6A-WC	SAM	04/10/25 13:42		Kareem	OK
48	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		Kareem	OK
49	CCV04	CCV04	CCV	04/10/25 13:51		Kareem	OK
50	CCB04	CCB04	CCB	04/10/25 13:55		Kareem	OK
51	Q1715-01MS	WATER TREATMENT	MS	04/10/25 13:59		Kareem	OK
52	Q1715-01MSD	WATER TREATMENT	MSD	04/10/25 14:07		Kareem	OK
53	Q1715-01A	WATER TREATMENT	PS	04/10/25 14:11		Kareem	OK
54	Q1744-01	B-158-SB01	SAM	04/10/25 14:15		Kareem	OK
55	Q1744-03	B-158-SB02	SAM	04/10/25 14:19		Kareem	OK
56	Q1754-03MS	TP-1-CONCRETEMS	MS	04/10/25 14:23		Kareem	OK
57	Q1754-03MSD	TP-1-CONCRETEMS	MSD	04/10/25 14:27		Kareem	OK
58	Q1745-09DUP	IB-6.5-WCDUP	DUP	04/10/25 14:32		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

59	Q1745-09L	IB-6.5-WCL	SD	04/10/25 14:36		Kareem	OK
60	CCV05	CCV05	CCV	04/10/25 14:44		Kareem	OK
61	CCB05	CCB05	CCB	04/10/25 14:49		Kareem	OK
62	Q1745-09A	IB-6.5-WCA	PS	04/10/25 14:57	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1745-09MS	IB-6.5-WCMS	MS	04/10/25 15:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1745-09MSD	IB-6.5-WCMSD	MSD	04/10/25 15:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	PBW04	PBW04	MB	04/10/25 15:14		Kareem	OK
66	LCSW04	LCSW04	LCS	04/10/25 15:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	PBS04	PBS04	MB	04/10/25 15:23		Kareem	OK
68	LCSS04	LCSS04	LCS	04/10/25 15:27	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
69	PBW05	PBW05	MB	04/10/25 15:31		Kareem	OK
70	PBS05	PBS05	MB	04/10/25 15:35		Kareem	OK
71	WATER MDL-4	WATER MDL-4	SAM	04/10/25 15:40		Kareem	OK
72	CCV06	CCV06	CCV	04/10/25 15:44		Kareem	OK
73	CCB06	CCB06	CCB	04/10/25 15:48		Kareem	OK
74	WATER MDL-5	WATER MDL-5	SAM	04/10/25 15:52		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

75	SOIL MDL-4	SOIL MDL-4	SAM	04/10/25 16:09		Kareem	OK
76	Q1746-01	B-149-SB01	SAM	04/10/25 16:17		Kareem	OK
77	Q1746-03	B-149-SB02	SAM	04/10/25 16:22		Kareem	OK
78	PB167490BL	PB167490BL	MB	04/10/25 16:26		Kareem	OK
79	PB167490BS	PB167490BS	LCS	04/10/25 16:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
80	PB167517TB	PB167517TB	MB	04/10/25 16:43		Kareem	OK
81	Q1744-02	B-158-SB01	SAM	04/10/25 16:47		Kareem	OK
82	Q1744-04	B-158-SB02	SAM	04/10/25 16:52		Kareem	OK
83	CCV07	CCV07	CCV	04/10/25 16:56		Kareem	OK
84	CCB07	CCB07	CCB	04/10/25 17:00		Kareem	OK
85	Q1780-01	001-WILLETS-PT-BL	SAM	04/10/25 17:05		Kareem	OK
86	Q1780-02	002-35TH-AVE(MAR)	SAM	04/10/25 17:09		Kareem	OK
87	Q1780-02DUP	002-35TH-AVE(MAR)	DUP	04/10/25 17:13		Kareem	OK
88	Q1780-02L	002-35TH-AVE(MAR)	SD	04/10/25 17:18		Kareem	OK
89	Q1780-02MS	002-35TH-AVE(MAR)	MS	04/10/25 17:22	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1780-02MSD	002-35TH-AVE(MAR)	MSD	04/10/25 17:26	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

91	Q1780-02A	002-35TH-AVE(MAR)	PS	04/10/25 17:30	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
92	SOIL MDL-5	SOIL MDL-5	SAM	04/10/25 17:34		Kareem	OK
93	PB167554BL	PB167554BL	MB	04/10/25 17:39		Kareem	OK
94	PB167554BS	PB167554BS	LCS	04/10/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	CCV08	CCV08	CCV	04/10/25 17:56		Kareem	OK
96	CCB08	CCB08	CCB	04/10/25 18:00		Kareem	OK
97	LR1	LR1	HIGH STD	04/10/25 18:05		Kareem	OK
98	LR2	LR2	HIGH STD	04/10/25 18:10		Kareem	OK
99	CCV09	CCV09	CCV	04/10/25 18:19		Kareem	OK
100	CCB09	CCB09	CCB	04/10/25 18:23		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/14/25 13:13		Kareem	OK
2	S1	S1	CAL2	04/14/25 13:17		Kareem	OK
3	S2	S2	CAL3	04/14/25 13:22		Kareem	OK
4	S3	S3	CAL4	04/14/25 13:26		Kareem	OK
5	S4	S4	CAL5	04/14/25 13:30		Kareem	OK
6	S5	S5	CAL6	04/14/25 13:34		Kareem	OK
7	ICV01	ICV01	ICV	04/14/25 13:56		Kareem	OK
8	LLICV01	LLICV01	LLICV	04/14/25 14:01		Kareem	OK
9	ICB01	ICB01	ICB	04/14/25 14:05		Kareem	OK
10	CRI01	CRI01	CRDL	04/14/25 14:09		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/14/25 14:14		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/14/25 14:18		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/14/25 14:22		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/14/25 14:27		Kareem	OK
15	CCV01	CCV01	CCV	04/14/25 14:31		Kareem	OK
16	CCB01	CCB01	CCB	04/14/25 14:35		Kareem	OK
17	Q1743-04	TP-16	SAM	04/14/25 14:39		Kareem	OK
18	Q1743-04DUP	TP-16DUP	DUP	04/14/25 14:44		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 # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

19	Q1743-04L	TP-16L	SD	04/14/25 14:48		Kareem	OK
20	Q1743-04MS	TP-16MS	MS	04/14/25 14:52		Kareem	OK
21	Q1743-04MSD	TP-16MSD	MSD	04/14/25 14:57		Kareem	OK
22	Q1743-04A	TP-16A	PS	04/14/25 15:01		Kareem	OK
23	Q1774-02	TT-073-IDWGW-2025	SAM	04/14/25 15:05		Kareem	OK
24	Q1774-03	TT-074-IDWGW-2025	SAM	04/14/25 15:09		Kareem	OK
25	Q1774-04	TT-075-IDWGW-2025	SAM	04/14/25 15:14		Kareem	OK
26	Q1774-02DUP	TT-073-IDWGW-2025	DUP	04/14/25 15:18		Kareem	OK
27	CCV02	CCV02	CCV	04/14/25 15:22		Kareem	OK
28	CCB02	CCB02	CCB	04/14/25 15:26		Kareem	OK
29	Q1774-02L	TT-073-IDWGW-2025	SD	04/14/25 15:31		Kareem	OK
30	Q1774-02MS	TT-073-IDWGW-2025	MS	04/14/25 15:35		Kareem	OK
31	Q1774-02MSD	TT-073-IDWGW-2025	MSD	04/14/25 15:39		Kareem	OK
32	Q1774-02A	TT-073-IDWGW-2025	PS	04/14/25 15:43		Kareem	OK
33	Q1705-04	ETGI-327	SAM	04/14/25 15:47		Kareem	OK
34	Q1705-05	ETGI-275	SAM	04/14/25 15:52		Kareem	OK
35	PB167533BL	PB167533BL	MB	04/14/25 15:56		Kareem	OK
36	PB167533BS	PB167533BS	LCS	04/14/25 16:01		Kareem	OK
37	Q1753-04	WC-1	SAM	04/14/25 16:05		Kareem	OK
38	Q1753-08	WC-2	SAM	04/14/25 16:09		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 # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

39	CCV03	CCV03	CCV	04/14/25 16:28		Kareem	OK
40	CCB03	CCB03	CCB	04/14/25 16:32		Kareem	OK
41	Q1753-01	WC-1	SAM	04/14/25 16:37		Kareem	OK
42	Q1753-05	WC-2	SAM	04/14/25 16:41		Kareem	OK
43	Q1768-01	CRUSHED STONE	SAM	04/14/25 16:45	Zn high	Kareem	Dilution
44	Q1756-01	TP-9	SAM	04/14/25 16:49		Kareem	OK
45	Q1760-01	TP-17	SAM	04/14/25 16:53		Kareem	OK
46	Q1760-05	TP-15	SAM	04/14/25 16:57		Kareem	OK
47	Q1779-01	TP-22	SAM	04/14/25 17:01		Kareem	OK
48	Q1779-05	TP-23	SAM	04/14/25 17:06		Kareem	OK
49	Q1779-05DUP	TP-23DUP	DUP	04/14/25 17:10		Kareem	OK
50	Q1779-05L	TP-23L	SD	04/14/25 17:14		Kareem	OK
51	CCV04	CCV04	CCV	04/14/25 17:18		Kareem	OK
52	CCB04	CCB04	CCB	04/14/25 17:22		Kareem	OK
53	Q1779-05MS	TP-23MS	MS	04/14/25 17:27		Kareem	OK
54	Q1779-05MSD	TP-23MSD	MSD	04/14/25 17:31		Kareem	OK
55	Q1779-05A	TP-23A	PS	04/14/25 17:35		Kareem	OK
56	Q1781-01	WC-13	SAM	04/14/25 17:39		Kareem	OK
57	Q1781-05	WC-12	SAM	04/14/25 17:43		Kareem	OK
58	Q1781-09	WC-11	SAM	04/14/25 17:48		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

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Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

59	PB167567BL	PB167567BL	MB	04/14/25 17:52		Kareem	OK
60	PB167567BS	PB167567BS	LCS	04/14/25 17:56		Kareem	OK
61	PB167482BL	PB167482BL	MB	04/14/25 18:00		Kareem	OK
62	PB167482BS	PB167482BS	LCS	04/14/25 18:12		Kareem	OK
63	CCV05	CCV05	CCV	04/14/25 18:16		Kareem	OK
64	CCB05	CCB05	CCB	04/14/25 18:20		Kareem	OK
65	PB167530BL	PB167530BL	MB	04/14/25 18:25		Kareem	OK
66	PB167530BS	PB167530BS	LCS	04/14/25 18:29		Kareem	OK
67	PB167548BL	PB167548BL	MB	04/14/25 18:33		Kareem	OK
68	PB167548BS	PB167548BS	LCS	04/14/25 18:38		Kareem	OK
69	PB167566BL	PB167566BL	MB	04/14/25 18:42		Kareem	OK
70	PB167566BS	PB167566BS	LCS	04/14/25 18:46		Kareem	OK
71	PB167500BL	PB167500BL	MB	04/14/25 18:50		Kareem	OK
72	PB167500BS	PB167500BS	LCS	04/14/25 18:54		Kareem	OK
73	Q1768-01DL	CRUSHED STONEDL	SAM	04/14/25 18:58	5X for Zn	Kareem	Confirms
74	Q1730-01	OU4-VSL-15-040325	SAM	04/14/25 19:02		Kareem	OK
75	CCV06	CCV06	CCV	04/14/25 19:07		Kareem	OK
76	CCB06	CCB06	CCB	04/14/25 19:11		Kareem	OK
77	Q1730-03	OU4-VSL-16-040325	SAM	04/14/25 19:15		Kareem	OK
78	Q1730-05	OU4-VSL-17-040325	SAM	04/14/25 19:19		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

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Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

79	Q1730-07	OU4-PCS-TC-21-040	SAM	04/14/25 19:23		Kareem	OK
80	Q1730-09	OU4-PCS-TC-22-040	SAM	04/14/25 19:27		Kareem	OK
81	Q1730-11	OU4-PCS-TC-23-040	SAM	04/14/25 19:32		Kareem	OK
82	Q1730-13	OU4-PCS-TC-24-040	SAM	04/14/25 19:36		Kareem	OK
83	Q1730-15	OU4-PCS-TC-25-040	SAM	04/14/25 19:40		Kareem	OK
84	Q1730-17	OU4-PCS-TC-26-040	SAM	04/14/25 19:44		Kareem	OK
85	Q1730-19	OU4-CF-15-040325	SAM	04/14/25 19:49		Kareem	OK
86	Q1736-01	GST1	SAM	04/14/25 19:53		Kareem	OK
87	CCV07	CCV07	CCV	04/14/25 19:57		Kareem	OK
88	CCB07	CCB07	CCB	04/14/25 20:01		Kareem	OK
89	Q1736-02	GST2	SAM	04/14/25 20:05		Kareem	OK
90	Q1738-01	OK-02-040425	SAM	04/14/25 20:10		Kareem	OK
91	Q1738-01DUP	OK-02-040425DUP	DUP	04/14/25 20:14		Kareem	OK
92	Q1738-01L	OK-02-040425L	SD	04/14/25 20:18		Kareem	OK
93	Q1738-01MS	OK-02-040425MS	MS	04/14/25 20:22		Kareem	OK
94	Q1738-01MSD	OK-02-040425MSD	MSD	04/14/25 20:26		Kareem	OK
95	Q1738-01A	OK-02-040425A	PS	04/14/25 20:30		Kareem	OK
96	Q1746-02	B-149-SB01	SAM	04/14/25 20:34		Kareem	OK
97	Q1746-04	B-149-SB02	SAM	04/14/25 20:39		Kareem	OK
98	Q1749-04	TP-14	SAM	04/14/25 20:43		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

99	CCV08	CCV08	CCV	04/14/25 20:48		Kareem	OK
100	CCB08	CCB08	CCB	04/14/25 20:52		Kareem	OK
101	Q1746-05	B-158-GW01	SAM	04/14/25 20:56		Kareem	OK
102	Q1746-06	B-149-GW01	SAM	04/14/25 21:00		Kareem	OK
103	Q1746-06DUP	B-149-GW01DUP	DUP	04/14/25 21:05		Kareem	OK
104	Q1746-06L	B-149-GW01L	SD	04/14/25 21:09		Kareem	OK
105	Q1746-06MS	B-149-GW01MS	MS	04/14/25 21:13		Kareem	OK
106	Q1746-06MSD	B-149-GW01MSD	MSD	04/14/25 21:17		Kareem	OK
107	Q1746-06A	B-149-GW01A	PS	04/14/25 21:21		Kareem	OK
108	Q1746-07	EB-2025-4-7	SAM	04/14/25 21:25		Kareem	OK
109	Q1771-01	TP-6C	SAM	04/14/25 21:30		Kareem	OK
110	Q1771-05	TP-7C	SAM	04/14/25 21:34		Kareem	OK
111	CCV09	CCV09	CCV	04/14/25 21:38		Kareem	OK
112	CCB09	CCB09	CCB	04/14/25 21:42		Kareem	OK
113	Q1771-09	TP-3A	SAM	04/14/25 21:46		Kareem	OK
114	Q1771-09DUP	TP-3ADUP	DUP	04/14/25 21:50		Kareem	OK
115	Q1771-09L	TP-3AL	SD	04/14/25 21:55		Kareem	OK
116	Q1771-09MS	TP-3AMS	MS	04/14/25 21:59		Kareem	OK
117	Q1771-09MSD	TP-3AMSD	MSD	04/14/25 22:03		Kareem	OK
118	Q1771-09A	TP-3AA	PS	04/14/25 22:07		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 # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM

STD. NAME	STD REF.#
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022
ICV Standard	MP85023
CCV Standard	MP85026
ICSA Standard	MP85024,MP85025
CRI Standard	MP85022
LCS Standard	
Chk Standard	MP85030,MP85031

119	Q1769-08	EB01-040925	SAM	04/14/25 22:11		Kareem	OK
120	Q1752-01	TP-1	SAM	04/14/25 22:15		Kareem	OK
121	Q1752-03	TP-2	SAM	04/14/25 22:19		Kareem	OK
122	Q1752-05	TP-4	SAM	04/14/25 22:23		Kareem	OK
123	CCV10	CCV10	CCV	04/14/25 22:28		Kareem	OK
124	CCB10	CCB10	CCB	04/14/25 22:32		Kareem	OK
125	Q1752-07	TP-3	SAM	04/14/25 22:36		Kareem	OK
126	CCV11	CCV11	CCV	04/14/25 22:40		Kareem	OK
127	CCB11	CCB11	CCB	04/14/25 22:44		Kareem	OK
128	Q1752-02	TP-1	SAM	04/14/25 22:49		Kareem	OK
129	Q1752-04	TP-2	SAM	04/14/25 22:53		Kareem	OK
130	Q1752-06	TP-4	SAM	04/14/25 22:57		Kareem	OK
131	Q1752-08	TP-3	SAM	04/14/25 23:02		Kareem	OK
132	CCV12	CCV12	CCV	04/14/25 23:06	Fail for Na	Kareem	OK
133	CCB12	CCB12	CCB	04/14/25 23:11		Kareem	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB167533

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: 04/09/2025 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 04/09/2025 **Time :** 15:35 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SKB.

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6003
LFS-2	0.25	M6012
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	M6158
1:1 HCL	5.00	MP85156
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 16:35	SKB. met.dig	met. lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

15

PB167533

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167517TB	PB167517TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
PB167533BL	PBW533	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
PB167533BS	LCS533	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	17
Q1743-04MS	TP-16MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	20
Q1743-04MSD	TP-16MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	21
Q1743-04DUP	TP-16DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
Q1743-04	TP-16	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	18
Q1744-02	B-158-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	22
Q1744-04	B-158-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	23
Q1745-04	IB-6A-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	24
Q1745-12	IB-6.5-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	25
Q1746-02	B-149-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	26
Q1746-04	B-149-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	27
Q1748-04	IB-1.5-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	28
Q1748-08	IB-2A-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	29
Q1749-04	TP-14	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	30
Q1752-02	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	31
Q1752-04	TP-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	32
Q1752-06	TP-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	33
Q1752-08	TP-4	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	34
Q1753-04	WC-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	35
Q1753-08	WC-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	36
Q1754-02	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	37
Q1754-04	TP-1-CONCRETE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	38

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167539

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 04/10/2025 **Time :** 09:45 **Temp :** 94 °C

End Digest Date: 04/10/2025 **Time :** 11:45 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JR

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85182
CCV	30mL	MP85184
CRA	30mL	MP85186
Blank Spike	0.48mL	MP85175
Matrix Spike	0.48mL	MP85175

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85176
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85177
2.5 ppb	S2.5	30mL	MP85178
5.0 ppb	S5.0	30mL	MP85179
7.5 ppb	S7.5	30mL	MP85180
10.0 ppb	S10.0	30mL	MP85181
ICV	ICV	30mL	MP85182
ICB	ICB	30mL	MP85183
CCV	CCV	30mL	MP85184
CCB	CCB	30mL	MP85185
CRI	CRI	30mL	MP85186
CHK STD	CHK STD	30mL	MP85187

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/10/25 @ 12:50	MB - Dig - Lab	MB - Room Temp Lab
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB167539

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167517TB	PB167517TB	3	30	<2	N/A	3-1
PB167539BL	PBW539	30	30	<2	N/A	2
PB167539BS	LCS539	30	30	<2	MP85175	3
Q1743-04DUP	TP-16DUP	3	30	<2	N/A	5
Q1743-04MS	TP-16MS	3	30	<2	MP85175	6
Q1743-04MSD	TP-16MSD	3	30	<2	MP85175	7
Q1743-04	TP-16	3	30	<2	N/A	4
Q1744-02	B-158-SB01	3	30	<2	N/A	8
Q1744-04	B-158-SB02	3	30	<2	N/A	9
Q1745-04	IB-6A-WC	3	30	<2	N/A	10
Q1745-12	IB-6.5-WC	3	30	<2	N/A	11
Q1746-02	B-149-SB01	3	30	<2	N/A	12
Q1746-04	B-149-SB02	3	30	<2	N/A	13
Q1748-04	IB-1.5-WC	3	30	<2	N/A	14
Q1748-08	IB-2A-WC	3	30	<2	N/A	15
Q1749-04	TP-14	3	30	<2	N/A	16
Q1752-02	TP-1	3	30	<2	N/A	17
Q1752-04	TP-2	3	30	<2	N/A	18
Q1752-06	TP-4	3	30	<2	N/A	19
Q1752-08	TP-3	3	30	<2	N/A	20
Q1753-04	WC-1	3	30	<2	N/A	21
Q1753-08	WC-2	3	30	<2	N/A	22
Q1754-02	TP-1	3	30	<2	N/A	23
Q1754-04	TP-1-CONCRETE	3	30	<2	N/A	24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

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 : 115525

Start Prep Date : 04/08/2025 **Time :** 16:40

End Prep Date : 04/09/2025 **Time :** 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JB

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : IZ

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	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

JB

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	JB 164 Room	9:29 IZ
	Preparation Group	Analysis Group

04/09/25

04/09/25 IZ

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB167517

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
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB167517

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB167517

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
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25 15:20
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
		% Solid:	90

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.076	U	1	0.076	0.43	mg/Kg	04/07/25 11:40	04/07/25 15:22	7196A
pH	6.52	H	1	0	0	pH		04/07/25 16:30	9045D
Trivalent Chromium	8.24		1	0.56	0.56	mg/Kg		04/10/25 14:15	6010D

Comments: pH result reported at temperature 22.4 °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:	04/05/25 15:20
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.52	H	1	0	0	pH		04/07/25 16:30	9045D
Ignitability	NO		1	0	0	oC		04/08/25 11:10	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	04/07/25 15:00	04/08/25 11:06	9012B
Reactive Sulfide	1.58	J	1	0.20	10.0	mg/Kg	04/08/25 12:50	04/08/25 15:12	9034

Comments: pH result reported at temperature 22.4 °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:	04/05/25 17:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
		% Solid:	56

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.12	U	1	0.12	0.71	mg/Kg	04/07/25 11:40	04/07/25 15:23	7196A
pH	6.45	H	1	0	0	pH		04/07/25 16:33	9045D
Trivalent Chromium	25.6		1	0.89	0.89	mg/Kg		04/10/25 14:19	6010D

Comments: pH result reported at temperature 22.4 °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:	04/05/25 17:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.45	H	1	0	0	pH		04/07/25 16:33	9045D
Ignitability	NO		1	0	0	oC		04/08/25 11:24	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	04/07/25 15:00	04/08/25 11:13	9012B
Reactive Sulfide	1.58	J	1	0.20	10.0	mg/Kg	04/08/25 12:50	04/08/25 15:15	9034

Comments: pH result reported at temperature 23.4 °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

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025 **RunNo.:** LB135327

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Corrosivity		pH	7.01	7	100	90-110	04/07/2025
Sample ID:	CCV1						
Corrosivity		pH	2.02	2.00	101	90-110	04/07/2025
Sample ID:	CCV2						
Corrosivity		pH	12.02	12.00	100	90-110	04/07/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1744
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135328

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.01	7	100	90-110	04/07/2025
Sample ID: **CCV1**						
pH	pH	2.02	2.00	101	90-110	04/07/2025
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	04/07/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1744
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135331

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.495	0.5	99	90-110	04/07/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.484	0.5	97	90-110	04/07/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.489	0.5	98	90-110	04/07/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.485	0.5	97	90-110	04/07/2025

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Initial and Continuing Calibration Verification

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1744
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135341

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.09	0.099	91	85-115	04/08/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025
Sample ID: CCV3						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1744
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135331

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025

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Initial and Continuing Calibration Blank Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1744
Project:	Amtrak Sawtooth Bridges 2025	**RunNo.:**	LB135341

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB3							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025

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Preparation Blank Summary

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB167461BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	04/07/2025
Sample ID: PB167494BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	04/08/2025
Sample ID: PB167498BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	04/08/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1744
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1712-01
Client ID: Z-05AMS
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1410		0.080	U	1470	40	96		04/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1744
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1712-01
Client ID: Z-05AMS
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	44.1		0.080	U	45.7	2	96		04/07/2025

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Matrix Spike Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1744
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1712-01
Client ID: Z-05AMS
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	37.6		0.080	U	45.7	2	82		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: Z-05ADUP
SDG No.: Q1744
Sample ID: Q1712-01
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.080	U	0.080	U	1	0		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: Z-05ADUP
SDG No.: Q1744
Sample ID: Q1712-04
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		04/08/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
Project: Amtrak Sawtooth Bridges 2025
Client ID: TT-8DUP
SDG No.: Q1744
Sample ID: Q1732-04
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	0.0083	U	0.0084	U	1	0		04/08/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1744
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1744-02
Client ID: B-158-SB01DUP
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
Ignitability	oC	+/-20	NO		NO		1	0		04/08/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1744
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1746-03
Client ID: B-149-SB02DUP
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
pH	pH	+/-20	7.52		7.53		1	0.13		04/07/2025

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Duplicate Sample Summary

Client: Portal Partners Tri-Venture
SDG No.: Q1744
Project: Amtrak Sawtooth Bridges 2025
Sample ID: Q1746-04
Client ID: B-149-SB02DUP
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	7.52		7.53		1	0.13		04/07/2025

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Laboratory Control Sample Summary

Client:	Portal Partners Tri-Venture	**SDG No.:**	Q1744
Project:	Amtrak Sawtooth Bridges 2025	**Run No.:**	LB135331

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167461BS								
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	04/07/2025

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135327

Review By	jignesh	Review On	4/7/2025 4:11:26 PM
Supervise By	Iwona	Supervise On	4/7/2025 4:25:16 PM
SubDirectory	LB135327	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	W3178,W3093,W3191,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 16:10		Jignesh	OK
2	CAL2	CAL2	CAL	04/07/25 16:11		Jignesh	OK
3	CAL3	CAL3	CAL	04/07/25 16:12		Jignesh	OK
4	ICV	ICV	ICV	04/07/25 16:15		Jignesh	OK
5	CCV1	CCV1	CCV	04/07/25 16:20		Jignesh	OK
6	Q1743-04	TP-16	SAM	04/07/25 16:25		Jignesh	OK
7	Q1744-02	B-158-SB01	SAM	04/07/25 16:30		Jignesh	OK
8	Q1744-04	B-158-SB02	SAM	04/07/25 16:33		Jignesh	OK
9	Q1745-04	IB-6A-WC	SAM	04/07/25 16:40		Jignesh	OK
10	Q1745-12	IB-6.5-WC	SAM	04/07/25 16:47		Jignesh	OK
11	Q1746-02	B-149-SB01	SAM	04/07/25 16:50		Jignesh	OK
12	Q1746-04	B-149-SB02	SAM	04/07/25 17:00		Jignesh	OK
13	Q1746-04DUP	B-149-SB02DUP	DUP	04/07/25 17:01		Jignesh	OK
14	CCV2	CCV2	CCV	04/07/25 17:05		Jignesh	OK

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Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135328

Review By	jignesh	Review On	4/7/2025 4:09:30 PM
Supervise By	Iwona	Supervise On	4/7/2025 4:25:02 PM
SubDirectory	LB135328	Test	pH

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	W3178,W3093,W3191,W3071,W3161,W3072

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 16:10		Jignesh	OK
2	CAL2	CAL2	CAL	04/07/25 16:11		Jignesh	OK
3	CAL3	CAL3	CAL	04/07/25 16:12		Jignesh	OK
4	ICV	ICV	ICV	04/07/25 16:15		Jignesh	OK
5	CCV1	CCV1	CCV	04/07/25 16:20		Jignesh	OK
6	Q1744-01	B-158-SB01	SAM	04/07/25 16:30		Jignesh	OK
7	Q1744-03	B-158-SB02	SAM	04/07/25 16:33		Jignesh	OK
8	Q1746-01	B-149-SB01	SAM	04/07/25 16:50		Jignesh	OK
9	Q1746-03	B-149-SB02	SAM	04/07/25 17:00		Jignesh	OK
10	Q1746-03DUP	B-149-SB02DUP	DUP	04/07/25 17:01		Jignesh	OK
11	CCV2	CCV2	CCV	04/07/25 17:05		Jignesh	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135331

Review By	rubina	Review On	4/7/2025 4:24:48 PM
Supervise By	Iwona	Supervise On	4/11/2025 3:14:36 PM
SubDirectory	LB135331	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	WP112566,WP110380,WP110381,WP111249

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 14:55		rubina	OK
2	CAL2	CAL2	CAL	04/07/25 14:56		rubina	OK
3	CAL3	CAL3	CAL	04/07/25 14:57		rubina	OK
4	CAL4	CAL4	CAL	04/07/25 14:58		rubina	OK
5	CAL5	CAL5	CAL	04/07/25 14:59		rubina	OK
6	CAL6	CAL6	CAL	04/07/25 15:00		rubina	OK
7	CAL7	CAL7	CAL	04/07/25 15:01		rubina	OK
8	ICV	ICV	ICV	04/07/25 15:02		rubina	OK
9	ICB	ICB	ICB	04/07/25 15:03		rubina	OK
10	CCV1	CCV1	CCV	04/07/25 15:04		rubina	OK
11	CCB1	CCB1	CCB	04/07/25 15:05		rubina	OK
12	RL Check	RL Check	SAM	04/07/25 15:06		rubina	OK
13	PB167461BL	PB167461BL	MB	04/07/25 15:07		rubina	OK
14	PB167461BS	PB167461BS	LCS	04/07/25 15:08		rubina	OK
15	Q1656-04	VNJ239	SAM	04/07/25 15:09		rubina	OK
16	Q1712-01	Z-05A	SAM	04/07/25 15:10		rubina	OK
17	Q1712-01DUP	Z-05ADUP	DUP	04/07/25 15:11		rubina	OK
18	Q1712-01MSPre	Z-05AMS	MS	04/07/25 15:12		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135331

Review By	rubina	Review On	4/7/2025 4:24:48 PM
Supervise By	Iwona	Supervise On	4/11/2025 3:14:36 PM
SubDirectory	LB135331	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	WP112566,WP110380,WP110381,WP111249

19	Q1712-01MS2Ins	Z-05AMS	MS	04/07/25 15:13		rubina	OK
20	Q1712-01MS3Post	Z-05AMS	MS	04/07/25 15:14		rubina	OK
21	Q1712-05	TT-7	SAM	04/07/25 15:15		rubina	OK
22	Q1732-01	TT-8	SAM	04/07/25 15:16		rubina	OK
23	CCV2	CCV2	CCV	04/07/25 15:17		rubina	OK
24	CCB2	CCB2	CCB	04/07/25 15:18		rubina	OK
25	Q1737-01	RT3069	SAM	04/07/25 15:19		rubina	OK
26	Q1740-01	TP-20	SAM	04/07/25 15:20		rubina	OK
27	Q1743-01	TP-16	SAM	04/07/25 15:21		rubina	OK
28	Q1744-01	B-158-SB01	SAM	04/07/25 15:22		rubina	OK
29	Q1744-03	B-158-SB02	SAM	04/07/25 15:23		rubina	OK
30	Q1745-01	IB-6A-WC	SAM	04/07/25 15:24		rubina	OK
31	Q1745-09	IB-6.5-WC	SAM	04/07/25 15:25		rubina	OK
32	Q1746-01	B-149-SB01	SAM	04/07/25 15:26		rubina	OK
33	Q1746-03	B-149-SB02	SAM	04/07/25 15:27		rubina	OK
34	CCV3	CCV3	CCV	04/07/25 15:28		rubina	OK
35	CCB3	CCB3	CCB	04/07/25 15:29		rubina	OK

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB135338

Review By	rubina	Review On	4/8/2025 4:16:45 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:16:54 PM
SubDirectory	LB135338	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	Q1744-02	B-158-SB01	SAM	04/08/25 11:10		rubina	OK
2	Q1744-02DUP	B-158-SB01DUP	DUP	04/08/25 11:17		rubina	OK
3	Q1744-04	B-158-SB02	SAM	04/08/25 11:24		rubina	OK
4	Q1745-01	IB-6A-WC	SAM	04/08/25 11:32		rubina	OK
5	Q1745-04	IB-6A-WC	SAM	04/08/25 11:40		rubina	OK
6	Q1745-09	IB-6.5-WC	SAM	04/08/25 11:48		rubina	OK
7	Q1745-12	IB-6.5-WC	SAM	04/08/25 11:55		rubina	OK
8	Q1746-02	B-149-SB01	SAM	04/08/25 12:02		rubina	OK
9	Q1746-04	B-149-SB02	SAM	04/08/25 12:10		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135341

Review By	Niha	Review On	4/8/2025 4:17:46 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:36:03 PM
SubDirectory	LB135341	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112629,WP112630,WP112631,WP112632,WP112633,WP112634,WP112635
ICV Standard	WP112636
CCV Standard	WP112630
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111035,WP110103,WP112637

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/08/25 10:23		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/08/25 10:23		Niha	OK
3	10PPBCN	10PPBCN	CAL3	04/08/25 10:23		Niha	OK
4	50PPBCN	50PPBCN	CAL4	04/08/25 10:23		Niha	OK
5	100PPBCN	100PPBCN	CAL5	04/08/25 10:23		Niha	OK
6	250PPBCN	250PPBCN	CAL6	04/08/25 10:23		Niha	OK
7	500PPBCN	500PPBCN	CAL7	04/08/25 10:23		Niha	OK
8	ICV1	ICV1	ICV	04/08/25 10:58		Niha	OK
9	ICB1	ICB1	ICB	04/08/25 10:58		Niha	OK
10	CCV1	CCV1	CCV	04/08/25 10:58		Niha	OK
11	CCB1	CCB1	CCB	04/08/25 10:58		Niha	OK
12	PB167498BL	PB167498BL	MB	04/08/25 10:58		Niha	OK
13	Q1732-04	TT-8	SAM	04/08/25 10:58		Niha	OK
14	Q1732-04DUP	TT-8DUP	DUP	04/08/25 11:05		Niha	OK
15	Q1737-02	RT3069	SAM	04/08/25 11:05		Niha	OK
16	Q1740-04	TP-20	SAM	04/08/25 11:05		Niha	OK
17	Q1743-04	TP-16	SAM	04/08/25 11:05		Niha	OK
18	Q1744-02	B-158-SB01	SAM	04/08/25 11:06		Niha	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135341

Review By	Niha	Review On	4/8/2025 4:17:46 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:36:03 PM
SubDirectory	LB135341	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP112629,WP112630,WP112631,WP112632,WP112633,WP112634,WP112635
ICV Standard	WP112636
CCV Standard	WP112630
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111035,WP110103,WP112637

19	Q1744-04	B-158-SB02	SAM	04/08/25 11:13		Niha	OK
20	Q1745-04	IB-6A-WC	SAM	04/08/25 11:13		Niha	OK
21	Q1745-12	IB-6.5-WC	SAM	04/08/25 11:13		Niha	OK
22	CCV2	CCV2	CCV	04/08/25 11:13		Niha	OK
23	CCB2	CCB2	CCB	04/08/25 11:20		Niha	OK
24	Q1746-02	B-149-SB01	SAM	04/08/25 11:21		Niha	OK
25	Q1746-04	B-149-SB02	SAM	04/08/25 11:21		Niha	OK
26	PB167505BL	PB167505BL	MB	04/08/25 11:21		Niha	OK
27	Q1739-02	WC-LIQUID-2025040	SAM	04/08/25 11:28		Niha	OK
28	Q1739-02DUP	WC-LIQUID-2025040	DUP	04/08/25 11:28		Niha	OK
29	CCV3	CCV3	CCV	04/08/25 11:28		Niha	OK
30	CCB3	CCB3	CCB	04/08/25 11:28		Niha	OK

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Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB135345

Review By	rubina	Review On	4/8/2025 3:47:43 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:16:02 PM
SubDirectory	LB135345	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	PB167494BL	PB167494BL	MB	04/08/25 14:50		rubina	OK
2	Q1712-04	Z-05A	SAM	04/08/25 14:53		rubina	OK
3	Q1712-04DUP	Z-05ADUP	DUP	04/08/25 14:56		rubina	OK
4	Q1712-08	TT-7	SAM	04/08/25 14:58		rubina	OK
5	Q1732-04	TT-8	SAM	04/08/25 15:00		rubina	OK
6	Q1737-02	RT3069	SAM	04/08/25 15:03		rubina	OK
7	Q1740-04	TP-20	SAM	04/08/25 15:06		rubina	OK
8	Q1743-04	TP-16	SAM	04/08/25 15:09		rubina	OK
9	Q1744-02	B-158-SB01	SAM	04/08/25 15:12		rubina	OK
10	Q1744-04	B-158-SB02	SAM	04/08/25 15:15		rubina	OK
11	Q1745-04	IB-6A-WC	SAM	04/08/25 15:18		rubina	OK
12	Q1745-12	IB-6.5-WC	SAM	04/08/25 15:20		rubina	OK
13	Q1746-02	B-149-SB01	SAM	04/08/25 15:22		rubina	OK
14	Q1746-04	B-149-SB02	SAM	04/08/25 15:24		rubina	OK
15	Q1748-04	IB-1.5-WC	SAM	04/08/25 15:26		rubina	OK
16	Q1748-08	IB-2A-WC	SAM	04/08/25 15:28		rubina	OK
17	Q1749-04	TP-14	SAM	04/08/25 15:30		rubina	OK

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LAB CHRONICLE

OrderID:	Q1744	**OrderDate:**	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	**B-158-SB01**	**SOIL**			**04/05/25 15:20**			**04/07/25**
			Hexavalent Chromium	7196A		04/07/25	04/07/25 15:22	
			pH	9045D			04/07/25 16:30	
			Trivalent Chromium	6010D			04/10/25 14:15	
Q1744-02	**B-158-SB01**	**SOIL**			**04/05/25 15:20**			**04/07/25**
			Corrosivity	9045D			04/07/25 16:30	
			Ignitability	1030			04/08/25 11:10	
			Reactive Cyanide	9012B		04/07/25	04/08/25 11:06	
			Reactive Sulfide	9034		04/08/25	04/08/25 15:12	
Q1744-03	**B-158-SB02**	**SOIL**			**04/05/25 17:10**			**04/07/25**
			Hexavalent Chromium	7196A		04/07/25	04/07/25 15:23	
			pH	9045D			04/07/25 16:33	
			Trivalent Chromium	6010D			04/10/25 14:19	
Q1744-04	**B-158-SB02**	**SOIL**			**04/05/25 17:10**			**04/07/25**
			Corrosivity	9045D			04/07/25 16:33	

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LAB CHRONICLE

Ignitability	1030		04/08/25 11:24
Reactive Cyanide	9012B	04/07/25	04/08/25 11:13
Reactive Sulfide	9034	04/08/25	04/08/25 15:15

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Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167461

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Start Digest Date: 04/07/2025 **Time :** 11:40 **Temp :** 90 °C

Matrix : SOIL

End Digest Date: 04/07/2025 **Time :** 12:40 **Temp :** 95 °C

Pippete ID : WC

II batch 04/07/2025 13:00 90 C
04/07/2025 14:00 95 C RM

Balance ID : WC SC-7

Hood ID : HOOD#3 **Digestion tube ID :** M6054 **Block Thermometer ID :** WC-Block#1

Block ID : WC S-2, WC S-1 **Filter paper ID :** 400213 **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** WC pH meter-1 **Supervisor Signature:** 12

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP112281
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	WP112618
CAL3	CAL3	0.5ML	WP112618
CAL4	CAL4	1ML	WP112618
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

04/07/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

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Soil/Sludge Hexavalent Chromium Preparation Sheet

PB167461

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167461BL	PBS461	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB167461BS	LCS461	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1656-04	VNJ239	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01	Z-05A	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01DUP	Z-05ADUP	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MSPre	Z-05AMSPRE	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MS2Ins	Z-05AMS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MS3Post	Z-05AMS3POST	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-05	TT-7	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-01	TT-8	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-01	RT3069	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-01	TP-20	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-01	TP-16	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-01	B-158-SB01	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-03	B-158-SB02	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-01	IB-6A-WC	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-09	IB-6.5-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-01	B-149-SB01	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-03	B-149-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A

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Soil/Sludge Reactive Sulfide Preparation Sheet

PB167494

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Start Digest Date: 04/08/2025 **Time :** 12:50 **Temp :** N/A

Matrix : SOIL

End Digest Date: 04/08/2025 **Time :** 14:20 **Temp :** N/A

Pippete ID : WC

Balance ID : WC SC-7

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: RM

Weigh By : RM

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
0.5M ZINC ACETATE	5.0ML	WP111004
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:

04/08/2025 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

PB167494

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167494BL	PBS494	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-04DUP	Z-05ADUP	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-04	Z-05A	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-08	TT-7	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-02	RT3069	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-04	TP-20	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-02	B-158-SB01	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-04	B-158-SB02	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-04	IB-6A-WC	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-12	IB-6.5-WC	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-02	B-149-SB01	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-04	B-149-SB02	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1748-04	IB-1.5-WC	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1748-08	IB-2A-WC	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1749-04	TP-14	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167498

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A

Matrix : SOIL

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : NF

NF
04/11/25

Start Digest Date: ~~04/08/2025~~ 04/07/2025 **Time :** 15:00 **Temp :** N/A

End Digest Date: ~~04/08/2025~~ 04/07/2025 **Time :** 16:30 **Temp :** N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: NF

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50ML	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	50.0ML	WP111294
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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
~~04/08/2025~~ 04/07/2025 16:45	NF/WC	NF/WC
04/07/2025	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB167498

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167498BL	PBS498	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04DUP	TT-8DUP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-02	RT3069	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-04	TP-20	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-02	B-158-SB01	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-04	B-158-SB02	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-04	IB-6A-WC	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-12	IB-6.5-WC	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-02	B-149-SB01	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-04	B-149-SB02	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1744
COC Number 2046612

17
17.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Ave
CITY Audubon STATE: PA ZIP: 19405
ATTENTION: Joe Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SR
PROJECT NO.: 9500000818 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QA&C@BEMS1S.com
PHONE: 610-301-8432 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Shefied St
CITY Mantanside STATE: NJ ZIP: 07093
ATTENTION: Samavia Beasley PHONE: 908-788-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ☒ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT BEMEDO

ANALYSIS

1: Full TCLP Analysis
2: RCRA parameters
3: PCBs
4: TAL Metals
5: TCL-VOC+10
6: Cr(III) Cr(VI)
7: TCL-SVOCs-BNA+20
8: EPH
9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-188-SB01	S		X	4/5/25	13:20	9	X	X	X	X	X	X	X	X		
2.	B-158-SB02	S		X	4/5/25	17:10	9	X	X	X	X	X	X	X	X		
3.	TB				NA	NA						X					
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	4-5-25 1040	1.
2. Natalie Zucca	4-7-25 1040	2.
3.		3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 2.1 °C
Comments: IR-Gun #1 "Adjust factor +1"

Page _____ of

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1744 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 4/7/2025 11:34:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 4/7/2025 10:40:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1744-01	B-158-SB01	Solid	04/05/2025	13:20	VOC-TCLVOA-10		8260D		10 Bus. Days
Q1744-03	B-158-SB02	Solid	04/05/2025	17:10	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By : CR
Date / Time : 4-7-25 1255

Received By : RL
Date / Time : 4.7.25 12:55

Storage Area : VOA Refridgerator Room